

# **The Founding of the American Society for Virology 1981-1982**

**honoring Wolfgang K. (Bill) Joklik (1926-2019) for his vision,  
determination and hard work**



**Bill Joklik, in the lab, Duke University (from *Duke Medicine*, with permission)**

- 1. The definitive story of the founding of the Society: Joklik WK, Grossberg SE. How the American Society for Virology was founded. *Virology*. 2006 Jan 5;344(1):250-257.**
- 2. Linkage to the founding of the Virology Division, International Union of Microbiological Societies: Melnick JL. The beginnings of the International Congresses of Virology. *Archives of Virology* 1991;116:295-300.**
- 3. Some of the original documents from the founding of the Society and its first meeting at Cornell University, 1982.**

# How the American Society for Virology was Founded

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Received 20 July 2005; accepted 10 September 2005

## Abstract

The American Society for Virology, the very first such Society to be formed anywhere, was founded at a meeting of some 40 virologists at Chicago O'Hare International airport on June 9, 1981. They met after a decade and a half of intense discussion that originated at the 9th International Congress of Microbiology in Moscow in 1966 when a small group of virologists requested the International Association of Microbiological Societies to form a Virology Section within IAMS, and this request was rejected. Virologists therefore held their own First International Congress of Virology in Helsinki in 1968 which was very successful and generated intense informal discussion among leading virologists in this country as to the desirability of founding an American society for virologists. Proposals were circulated and discussed which resulted in the informal Chicago meeting that created the mechanism for founding the ASV and organizing its 1st Annual Meeting at Cornell in Ithaca in August 1982.

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## Background

On June 9, 2004, the American Society for Virology celebrated its 23rd birthday. It was a strong healthy infant right from the start; no fewer than 650 scientists were offered the opportunity to become Charter Members. As more and more young Virologists join every year and old ones retire, the story of how our Society started becomes increasingly relevant to those who are interested in the state of our discipline at the time, 35 years ago, when the prospect of founding a Society of their own excited and united Virologists.

In retrospect, the most amazing aspect of the discussions in 1980 and 1981 that led to the founding of our Society was that they did not start much earlier. Viruses were, after all,

discovered in the 1890s and very rapidly recognized as something completely new. Very soon, within two or three decades, a worldwide body of scientists had emerged who specialized in the development of techniques for detecting, recognizing, isolating and characterizing, in biological as well as pathologic terms, viruses replicating in hosts ranging from humans to bacteria. Then, starting in the 1930s, some 70 years ago, when biochemistry had reached the stage of being capable of dealing with them effectively, viral nucleic acids began to be characterized in molecular, functional and genetic terms. It did not take long before the unique advantages as model systems of these nucleic acids, nucleic acids that are the genomes of replicating biological units and some of which comprise as few as half a dozen genes, began to be appreciated. Soon, by virtue of the unparalleled simplicity of their genomes, viruses were the tools *par excellence* for the generation and development of

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molecular cell biology and molecular genetics. All the basic principles governing these two ways of thinking about cells and populations of identical or different cells, as well as genetic engineering, were deduced or derived from the insights gained concerning how viruses replicate and modify their host cells. Nor has the sequencing of cellular genomes diminished the use of viral systems as model systems: for by virtue of their ability to manifest the consequences of proteins and nucleic acids modifying and controlling both their own and each others' functions, viral systems will continue, for the foreseeable future, to provide insights into the nature of the results and outcomes of these multifunctional interactions. Not surprisingly, Virologists responsible for conceptualizing and identifying fundamental advances in molecular cell biology and genetics have been well recognized: no fewer than 17 have been honored with the Nobel Prize.

Despite the fact that Virology was clearly a unique discipline that required specialized skills – in particular, the ability to grow, isolate and handle viruses in quantity, that is, in biochemically significant amounts, and to quantify (titrate) them – Virologists were, for a long time, satisfied with their discipline being regarded as one of the components of Microbiology, along with bacteriology, mycology and parasitology. This was the situation not only intellectually and academically – Virology being, in textbooks, one of the four sub-disciplines of Microbiology and therefore, as is still the case, included in Microbiology courses to medical and biology students – but also administratively: Virology was, and is, one of the Divisions of the American Society for Microbiology (ASM); and when Virologists met, as they have met annually for many years, it was as one of the Sections of the Annual ASM Meeting. And it was also within the ASM that virologists were accorded professional recognition. For example, Ed Lenette was President of the ASM in 1979, Ken Berns was President in 1995 and the opponent whom he defeated in the final run-off election was Bill Joklik, another Virologist.

The issue that in the late nineteen seventies and early eighties sparked discussions as to whether Virologists should form a Society of their own was dissatisfaction with the Annual Meeting of the ASM as their annual get-together. Although Virologists were the second largest disciplinary component of the ASM, being more numerous than either mycologists or parasitologists, they were outnumbered by bacteriologists by a factor of 5 to 10. Sessions devoted to Virology were therefore few and far between and Annual ASM Meetings did not provide convenient opportunities for Virologists to meet as Virologists. Virologists could have held individual meetings of their own even while continuing to be, administratively, a Division within the ASM; but it was argued that if we organized our own independent individual Meetings, we might as well also be independent administratively.

Interestingly, these issues had already been considered and discussed 15 years before with respect to the International Congresses of Microbiology which were held by the International Association of Microbiological Societies (IAMS). Virology was not, prior to the 10th International Congress of Microbiology in Mexico City in 1970, one of the microbio-

logical Societies; it was not even a Section within Microbiology. It was during the 9th International Congress of Microbiology in Moscow in 1966, at which there were 5541 registrants not more than 5 to 10% of whom were Virologists, that a small international, “revolutionary” group of Virologists that included Peter Wildy (Birmingham, England), Victor Zhdanov (Moscow), Joseph Melnick (Houston) and later also Nils Oker-Blum (Helsinki) met in the home of Valentine Soloviev and decided to request the Executive Committee of the IAMS to form a Virology Section within the IAMS. The response was: Virologists were microbiologists and could not be represented by a separate body.

It says a great deal for these pioneers and for the state of Virology at that time, that their response was positive and proactive. An International Committee was recruited from 39 countries and the 1st International Congress of Virology was held in Helsinki 2 years later, in 1968, 37 years ago. It was highly successful. All leading Virologists were there, Joe Melnick was Secretary-General, and he, Peter Wildy, Nils Oker-Blum and Victor Zhdanov were the Convenors. These four, who were honored as the “Four Founding Fathers” of the International Congress of Virology at the 8th International Congress of Virology in Berlin in 1990, were also the Convenors of the 2nd International Congress of Virology in Budapest in 1971 which had almost 1000 registrants. Joe Melnick was then President and Peter Wildy was Vice President of the 3rd International Congress of Virology in Madrid in 1975, and Peter Wildy was President and Jan van der Want was Vice President of the 4th International Congress of Virology in The Hague in 1968 which had about 2000 registrants.

It is clear then that the 1st International Congress of Virology was held without Virology being a Section in the IAMS. In order to rectify this situation, the entire membership of the Congress passed unanimously the following resolution:

“The 536 members of the First International Congress of Virology, whose names are listed below, met in Helsinki during 14–20 July 1968 and held a series of daily scientific conferences. The fact that so many of the world's leading Virologists assembled in Helsinki demonstrates the need and support for International Congresses of Virology. The benefits resulting from exchanges of information on current work in many different countries have led us to pass the following resolutions:

1. Be it resolved that the members of the First International Congress of Virology petition the International Association of Microbiological Societies to proceed at once to form a Section on Virology, to include all branches of the science, and to arrange for future and regular International Congresses for Virology, with the Second International Congress to be held in 1971.
2. Until such time as the International Association of Microbiological Societies establishes a Section on Virology with the responsibility of holding periodic International Congresses of Virology, the Secretary-General of the International Congress of Virology is requested to continue



in office to proceed with arranging for the Second International Congress of Virology in 1971. The responsibility for future International Congresses of Virology is to be turned over to the IAMS Section on Virology as soon as such a Section is created and able to take over this responsibility”.

Impressed, on the one hand, by the evidence that Virologists had indeed mounted their own, highly successful, International Congress, and faced with the possibility of Virologists withdrawing from the IAMS altogether, the 10th International Congress of Microbiology in Mexico City in 1970 agreed to the formation of a Section on Virology, as well as of Sections on Bacteriology and, later, Mycology, in what has become the International Union of Microbiological Societies.

This, then, is the background to the incipient discussions in early 1980 as to whether to found a free-standing American Society for Virology, the first such Society anywhere in the world. In the U.S., Virology was a Division in the ASM and Virologists met annually within the framework of the annual ASM Meeting; and on the international stage, Virology was a Section in the IAMS and Virology held its own International Congresses. Requests to the ASM by its Virology Division for assistance with respect to travel funds to the 5th International Congress of Virology in Strasbourg in 1981 were denied.

The period surrounding the birth of the American Society for Virology can be divided into two phases. The first was a preliminary Phase of Public Discussion: a period when the idea of founding our own Society was discussed increasingly widely among Virologists and that ended with a meeting on June 9, 1981 in Chicago at which a resolution was offered to found a Society for Virology for which the resulting vote was overwhelmingly affirmative. June 9 is therefore the birthday of the American Society for Virology. The second phase was a Phase of Committee Work in which an Organizing Committee was constituted which progressively spawned Sub-Committees that created both the administrative structure of the new Society and organized its first Annual Meeting in August 1982 in Ithaca, New York.

### **The phase of public discussion**

There were numerous informal discussions in the late nineteen seventies, among groups of various sizes at various times, in various locations, in person and over the phone, as to the desirability of founding a Society for Virologists. Strangely enough, on the one hand, or predictably, on the other, the individuals involved in these discussions were not those who took the bull by the horns implementing the International Congresses of Virology and gaining Section status for Virology within the IAMS 15 years earlier; the scientists involved now were the next generation, so to speak, little connected with or aware of the efforts of the earlier group.

It was on December 18, 1980 that Bill Joklik sent the following note to and consulted at length with Peter Vogt, Purnell Choppin, Bob Wagner, David Baltimore, Tom Merigan, Juli Youngner, Norton Zinder, Harry Ginsberg, Al

Kaplan, Lee McLaren, Fred Murphy, Fred Rapp and Walter Schlesinger:

“Dear N,

Here is the background material to what we discussed on the phone yesterday. Think it over, sleep on it, and then call me back with your thoughts, comments and suggestions.

What do you think of the idea of starting an American Society for Virology? The reasons for taking such a step are numerous and well-known; many of us have considered such a step at one time or another during recent years. Let me enumerate them as I see them.

First, Virology has outgrown the confines of “Microbiology”. It has for four decades been the growing point of molecular biology and is now the core of the vast area of cell biology. Second, the fact that Virology some time ago became an important discipline in its own right is attested by the numerous high quality journals that are exclusively devoted to it.

Third, Virologists really have no comfortable home among the major extant scientific Societies. I remember that in the fifties and early sixties, advances in Virology were usually communicated at the Immunology sessions of Federation Meetings and many Virologists were members of the AAI (some of the ASBC) for the purpose of obtaining “options” for presenting papers at the annual Federation meetings. In the late sixties, Virologists gravitated to the American Society for Microbiology, where a decade ago, the Virology Division was the second strongest of the five Divisions that existed at the time, and the most vital. Recently, there has been a change. Not only is the ASM by now uncomfortably large, but its center of gravity has shifted away from basic science. Virologists attend few of the sessions of the other Divisions at the Annual Meetings and are beginning to leave the ASM; I understand that the number of Virology Abstracts submitted this year is down substantially. Further, it is clear that Virology has lost its clout within the ASM. For example, recent appeals for financial assistance for travel in relation to the Fifth International Congress of Virology have gone unanswered. It seems that as far as the Virologists’ association with the ASM is concerned, few of us derive any particular benefits from a very large Society that is nowadays little more than a federation of independent disciplines, that is severely limited with respect to its Annual Meeting locale because of its size, and which does not speak for us since its attention is riveted elsewhere.

If you agree that the time has come to explore the possibility of setting up an American Society for Virology, please let me know. Let me have your thoughts on the subject; and let me know in what capacity you would like to function in the work of setting up the new Society. The problems associated with founding a new Society are considerable; there are questions such as the Constitution and By-laws, the organization and location of a Secretariat, the nature of the relation of such a new Society to the Journal of Virology, and many others. If you feel that we should move ahead in this direction, please indicate whether you could attend an exploratory meeting at which a few of us could get together



in order to explore the problems that we might face and how they might be overcome. I am sending this letter to a number of Virologists; and if I find that the consensus is favorable, I would be prepared to call a meeting at some central location such as O'Hare International Airport where we could spend a day to consider the matter further. I would be glad if you would indicate not only whether and when you would be prepared to attend such a meeting (I would imagine that some time next spring would be appropriate), but also whether you would be prepared to speak on some aspect of getting a fledgling ASV off the ground".

The reaction to this letter was overwhelmingly positive. The same letter was therefore sent on March 26, 1981 to 180 virologists over the names of David Baltimore, Purnell Choppin, Bill Joklik, Tom Merigan, Peter Vogt, Bob Wagner, Julius Youngner and Norton Zinder, requesting replies to be sent to Bill Joklik. Replies were received from 140, and 138 were positive.

This letter was followed by another one on April 27, signed by the eight above plus Harry Ginsberg and Bernard Roizman, in which it was announced that an exploratory meeting would be arranged by Bernard Roizman for June 9 at O'Hare International Inn. We also invited four ASM Officers, namely Immediate Past President Al Balows, President Fred Neidhardt, President-Elect John Sherris and Council Policy Committee member Harry Gooder (who, however, was unable to come as he was out of the country), to join us for the meeting.

In preparation for the meeting, Bill Joklik sent out a letter on May 22 to define and outline the issues to be discussed, which said in part:

"As our Chicago June 9 meeting to consider the issues involved in founding an American Society for Virology approaches, let me outline briefly some of the issues that are involved. I have talked to many Virologists and received many letters concerning this matter. More than 90% of the letters that we have received are strongly in favor of founding the proposed new Society; only 2 out of 180 have opposed it. I have received numerous letters from workers in the bacteriophage field and from virologists engaged in clinical studies and who have strongly urged that the new Society be inclusive; and indeed, I strongly favor a new Virology Society serving as a home for all Virologists, clinical, biological and molecular, working with viruses replicating in all types of host cells including vertebrates, insects, plants, yeasts and fungi, and bacteria. It may well be that a major effort will be required to generate such a broad appeal but without it, it seems to me that a new Society would be so narrowly focused that it would very likely not get off the ground.

I am sure that there will be much spirited discussion in Chicago on these, as well as on related and unrelated topics. I hope that there will be sufficient time for all those who wish to contribute to the discussion to be heard, and for the three representatives of the ASM, Al Balows, Fred Neidhardt and John Sherris, to participate in our deliberations. I suggest the following as a tentative agenda; it is

intended only to provide a framework and may be changed as we receive further suggestions and comments in the letters that keep arriving.

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Should an ASV be formed?	How to organize an ASV: its governance
Its relationship with the ASM	The nature of its annual meeting
Other issues	

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I look forward to seeing all of you on June 9 at O'Hare International Inn".

The Meeting was a great success. Forty virologists from all over the U.S. attended; and we received highly positive and supportive letters from 90 others. Jules Hallum and Glenn Gentry were good enough to provide summaries of the meeting:

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9 am Welcome and opening statement: Do we need a Virology Society?  
Bill Joklik

- # The present state of Virology
  - Problems with the concept of the ASM as the home for Virology
- # The increasing importance of viruses of higher eukaryotes
- # The size of the ASM. Lack of input by Virologists
- # The unsatisfactory nature of the Annual Meeting.
  - There were 10,000 at the 1981 ASM Annual Meeting in Dallas; about 200 were Virologists
- # A new ASV should cater to all Virologists
  - Organize its own meetings
  - Comprise members actively engaged in research
  - Define its relationship to the ASM

- 10 am–12 noon Discussion Session Chairman:  
Julius Youngner
- # Report on the Dallas ASM RNA virus session Julius Youngner
  - Meeting: DNA virus session Fred Rapp
  - (Few abstracts, total attendance no more than 200)
  - # Al Balows State of the ASM
  - Fred Neidhardt Possible changes in the ASM to address our concerns
  - John Sherris The need for a society like the ASM
  - # General discussion and comments
  - # Motion proposed by Jules Hallum and seconded

"THAT A SOCIETY FOR VIROLOGY BE FORMED"  
LUNCH

- 1:30 pm Afternoon session Chairman:  
Harry Ginsberg
- # Vote on the above motion 38 in favor 2 opposed
  - # Discussion: Where do we go from here?
  - # Vote to elect two Co-Chairmen of a to-be-appointed Steering Committee
  - Nominated: Heinz Fraenkel-Conrat, Harry Ginsberg, Bob Haselkorn, Bill Joklik, Julius Youngner
  - Elected: Bill Joklik and Harry Ginsberg

They are to orchestrate necessary and appropriate measures, starting with the appointment of an Organizing Committee with representatives of all areas of virologic interest. Bill Joklik was asked to serve as Interim President of the new Society.

3:30 pm Adjournment

As a consequence, of the overwhelmingly affirmative vote on the resolution "that a new Society of Virology be formed"

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JUNE 9 1981 IS THE BIRTHDAY OF THE AMERICAN SOCIETY  
FOR VIROLOGY

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## The phase of committee work

On June 25, Bill Joklik sent an update on the status of the American Society for Virology to the 180 virologists who had been contacted earlier; and on July 15, Harry Ginsberg, Bob Haselkorn, Dorothy Horstman, Bill Joklik, Max Summers and Milt Zaitlin met in Harry Ginsberg's office at the College of Physicians and Surgeons, Columbia University, as the Organizing Committee. They considered, discussed and implemented the following initiatives:

- # Criteria for membership were discussed. Professional standards for admission were to be established by a Committee to be appointed. It was resolved to invite 500 Virologists to become Charter Members of the Society.
- # Bob Haselkorn and Dorothy Horstman were charged with drawing up a minimal Constitution.
- # In line with Bill Joklik's earlier suggestion at the June 9 meeting that Annual Meetings be held on College Campuses, Milt Zaitlin was charged with organizing the first Annual Meeting on the Campus of Cornell University at Ithaca.
- # Bill Joklik was charged with contacting selected Commercial Companies with requests for funds to support the Annual Meeting.
- # Defining the relationship between the ASM and the new Society was the topic of extensive discussion. Predictably, the ASM was disturbed at the prospect of losing a sizeable number of members. This fear was exaggerated since many Virologists who were members of the ASM did not plan to drop their ASM membership and continued to function within the ASM; in fact, in 1994, Bill Joklik was nominated to run for the office of President of the ASM by the ASM Nominating Committee, a race that he lost to Ken Berns, another Virologist who had also retained his ASM membership. In order to facilitate interaction between the ASM and the ASV, Harry Ginsberg suggested, in the fall of 1981, that the ASV be associated with the ASM through some-to-be developed new form of Federation. Such a linkage would have many advantages for both organizations. For Virologists, it would permit them to participate actively in the ASM's representation of Microbiologists in the political arena, as well as utilize the ASM's central staff for organizing meetings and the execution of administrative functions. For the ASM, it would ensure continued functioning of Virologists within that Society and broaden the base and increase the number of Virologists who are members of the ASM, thereby increasing the talent available for participation in ASM functions.

These ideas were discussed informally at various times between Officers of the two Societies and in May 1988, Alice Huang, President of the ASM, set up a meeting in Miami to explore possible ways of how the two Societies could interact profitably, including via the Federation model described above. The ASV representatives were Ken Berns, Fred Rapp and Juli Youngner. Although interaction between the ASM and the ASV was thought to be very desirable by representatives of

both Societies, no concrete ideas for such a relationship emerged.

The next several months were occupied primarily with compiling membership lists, making arrangements for and announcing/publicizing the staging of the first ASV Annual Meeting in Ithaca, and raising funds for this meeting. Invitations to 650 Virologists to become Charter Members and attend the Ithaca meeting were sent out on October 9. Prospective Charter Members were asked for a contribution of \$25 to provide initial funds to permit the new Society to function.

On January 7, 1982, the Organizing Committee met again in Harry Ginsberg's office. The primary agenda were expansion of the membership and organization of the first Annual Meeting of the Society on August 1 to 4 on the Campus of Cornell University at Ithaca, N.Y. With respect to the former, it was resolved that each of the original Charter Members of the new Society would be invited to nominate one additional member. With respect to the latter, the scientific/academic program would be organized by Bill Joklik to include four morning Symposia of three speakers in each, and 27 Workshops each headed by a Convenor.

This meeting was followed by several large scale mailings concerning the Society and the Meeting, with invitations to join the former and attend the latter, along with registration materials and the Meeting Program. These mailings were sent out by Bill Joklik over the names of the members of the interim organizational Committees: David Baltimore, Purnell Choppin, Harry Ginsberg, Bob Haselkorn, Dorothy Horstman, Bill Joklik, Tom Merigan, Fred Murphy, Bernard Roizman, Max Summers, Peter Vogt, Bob Wagner, Julius Youngner, Milt Zaitlin and Norton Zinder.

## The First Annual Meeting

By August 1, 1982, the opening day of the First Annual Meeting of the American Society for Virology at Ithaca, Cornell, excellently organized by Milt Zaitlin, we had put together a scientific program of four Symposia and 27 Workshops organized by Bill Joklik; established the new Society's Constitution and By-laws, comprising nine Articles; had the Society declared a Tax-exempt Corporation in North Carolina effective June 9, 1982; and had 905 paid-up members.

The Meeting began on Monday, August 1, with Registration from 2 to 10 pm and a Mixer from 6 to 11 pm. It was officially opened on Tuesday, August 2, at 8:30 am when Bill Joklik, as Interim President of the new Society, welcomed the Meeting participants. He recalled the reasons why the Society had been formed and its desire for its own Annual Meeting, thanked our local host Milt Zaitlin and his Committee for having done an outstanding job organizing the Meeting and thanked all Symposium speakers and Workshop Convenors whom he had asked to function for their willingness to do so. His address was followed by a Symposium on "Genome Structure and Expression" with talks by Norton Zinder, David Baltimore and Jan Kaper. The Tuesday morning Symposium was entitled "Transformation and Persistence", with talks by Mike Bishop, George Miller and Mark Ptashne. The Wednesday Symposium

was entitled “Mechanisms of Infection”, with talks by Abner Notkins, Bill Robinson and Tom Monath, and the Thursday Symposium was “Epidemiology and Ecology”, with talks by Peter Palese, Max Summers and Karl Johnson.

The Business Meeting was called to order in Statler Auditorium at 2 pm on Wednesday, August 3, by Bill Joklik, acting as Interim President. Fred Murphy was appointed Temporary Recording Secretary. About 500 Virologists were present. The following issues were considered/discussed:

Bill Joklik reviewed the initial planning meetings and the decisions reached that led to this first Annual Meeting of the new American Society for Virology. He suggested that future Meetings of the ASV be held on College Campuses, rather than in big cities. After some discussion, a straw vote was taken that showed overwhelming (greater than 90%) support for holding future Annual Meetings of the ASV on College Campuses.

Bill Joklik described discussions concerning future relations with the ASM. Both Harry Ginsberg and he had met repeatedly with the leaders of the ASM and assured them that the ASV would be happy to work with the ASM. He reported that he had received an invitation from John Sherris, President of the ASM, to meet with the ASM Council Policy Committee in October in Washington, DC, and to discuss with them, and with representatives of several other Societies like our own, our past, present and future relationships with the ASM. He favored the formation of a Federation of American Societies of Microbiology of which the ASV would be a member.

Bill Joklik presented reports of the actions of interim Officers and Committees.

a. The Society now (in 1982) has almost 1000 paid-up members. During a discussion of criteria for membership, it was pointed out that the American Society for Biological Chemists requires submission of a Curriculum vitae and bibliography, as well as nomination letters from two members of the Society specifying that the applicants are engaged in high quality research. Norton Zinder spoke out against too rigid criteria, and in particular objected to the letters of nomination. After some discussion, a straw vote was taken and the overwhelming feeling of the membership was that submission of a Curriculum vitae and bibliography would suffice. A Membership Review Committee to develop membership criteria for our Society will be appointed. Establishment of an Emeritus Class Membership for distinguished scientists is also contemplated.

b. The Financial Report, which had been distributed to the Membership, was discussed. It showed that the account balance of the Society as of 7/21/82 was \$21,941.75. Bill Joklik pointed out that the reason for this excellent financial position was that very little money had been used. The Organizing Committee had met twice in New York, in July 1981 and in January 1982, but all travel expenses had been borne by the Committee members themselves, as had all secretarial, telephone and mailing

expenses they had incurred in Society-related activities. A Finance Committee is to be appointed by the new President, charged with authorizing expenditures, fixing next year's dues, raising funds to support next year's Annual Meeting, providing travel funds for junior scientists and perhaps instituting an annual prize for research achievements in Virology (as suggested by David Baltimore).

- c. The planning and organization of Annual Meetings was discussed. Milt Zaitlin reviewed Meeting organizational matters, primarily with the intent of developing background information and advice for future organizers. He pointed out that budgets for Meetings such as ours are large and complex, and that both local professional Conference Center staff and local Committees composed of enthusiastic Virologists acting as volunteers are essential for success. Milt and his colleagues were congratulated warmly for their efforts; the general consensus was that this Meeting was running very smoothly and that both accommodation and food were very good. Among problems to be solved for subsequent Meetings were ensuring that Conference rooms are within brief walking distances, and regulating the number of papers presented in Workshops. The desirability of organizing Poster Sessions was envisaged.
- d. Bill Joklik presented the Society's proposed Constitution and By-laws which were modeled after those of the Infectious Diseases Society, revised by Dorothy Horstman and Bob Haselkorn. They will be reexamined critically by a Committee to be appointed. When approved by Council, they will be submitted to the Membership for modification and approval.
- e. Bill Joklik called on Walter Schlesinger, Chairman of the Nominating Committee, for his report. The Nominating Committee, which consisted of Walter Schlesinger, George Bruening, Karl Johnson, Helen Revel, Peter Faulkner and Jim Gillespie, recommended the following slate:

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For President	Bill Joklik
For President-Elect	Harry Ginsberg
For Councillors	Fred Murphy, Milton Zaitlin, Dorothy Horstman, Max Summers, Bob Haselkorn and Priscilla Schaeffer

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Nominations from the floor were requested; none were forthcoming. Walter Schlesinger moved that the above-mentioned slate be elected. The motion was seconded and carried unanimously.

Bill Joklik thanked the Society for their confidence in him. He announced that a Secretary-Treasurer would be appointed without delay. The six Councillors would draw straws to determine who would serve staggered terms of 1, 2 and 3 years, respectively. There was some discussion concerning the site of the next Annual Meeting. Offers/invitations/indications of interest were received from Michigan



State University, Purdue University, the University of Connecticut, Iowa State University, University of Wisconsin, Ohio State University and the University of California at Davis. Bill Joklik announced that Council would meet shortly to choose the site of the next Annual Meeting. The question was raised as to what would happen in years when there is an International Congress and when the International Congress is held in North America, as will occur in 1987. Future Program Committees and Councils will consider these questions. Among the various items of other business that were brought up was one asking the Society to request travel funds from the NIH for Virologists to attend the Sixth International Congress of Virology in Sendai, Japan; a request to publish a Plant Virus Newsletter; and a resolution that press releases concerning the founding of the Society be written and sent to *Science* and *Nature*. Bill Joklik announced that the newly-elected Council would meet before the end of the Meeting to consider these questions and transact other business. A motion for adjournment was made and seconded, and the Meeting adjourned at 3:10 pm.

### The administrative development of the ASV

The first action of the now duly-elected (rather than Interim) first President of the Society, Bill Joklik, was to appoint David Bishop as our first Secretary-Treasurer. He also appointed the following first Committees of the new Society:

Meetings and Program Committee	Membership Review Committee	Charter and By-laws Committee	Finance Committee
Ken McIntosh, Chairman	Al Wood, Chairman	Bernard Fields, Chairman	George Miller, Chairman
L.E. Carmichael	J.B. Derbyshire	R. Haselkorn	D.H.L. Bishop
R.M. Goodman	H.S. Ginsberg	D. Horstman	F. Murphy
W.K. Joklik	M. Gottesman	T.J. Morris	F. Rapp
J. King	N.H. Hopkins		E. Scolnick
W.E. Rawls	T.C. Merigan		
M. Summers	A.J. Nahmias		
	H. Revel		
	H.D. Robertson		
	J. Storz		
	M. Zaitlin		

Each Committee was provided with detailed charges aimed at providing the base for the new Society's administrative structure. The following announcement appeared in the 11/4/82 issue of *NATURE*:

"A new scientific Society, the American Society for Virology, has been officially inaugurated with the first of what will be Annual Meetings. W.K. Joklik, of Duke University, was elected President of the Society. The primary purpose of the Society will be the organization of Annual Meetings, the 1983 Meeting being scheduled for Michigan State University next summer."

The second Annual Meeting of the new Society was indeed held on the Campus of Michigan State University in East Lansing, MI, on July 10–14, 1983. The local Committee was chaired by Lee Velicer. At that Meeting, Harry Ginsberg became the second President of our Society, the subsequent Presidents of which are listed in Table 1. And it was immediately following this Meeting that our first Secretary-Treasurer, David Bishop, who was appointed at the close of our first Annual Meeting, resigned and in his place Council appointed Sidney Grossberg, who, following reelection, has now served as our Secretary-Treasurer continuously for 22 years.

This closes the account of the founding of the American Society for Virology. The general format of the Annual Meetings has remained essentially unchanged from the first, with an initial Keynote Lecture followed by full morning, cross-disciplinary Plenary Symposia and Workshops with occasionally interspersed State-of-the-Art Lectures. Abstracts are now printed in the Meeting Program, and Poster Sessions have been added. The Meetings now include sub-discipline Satellite Symposia and Forums on educational and career development, as well as on subjects of general topical interest to the field. The number of Meeting participants ranges from 1400 to 1800.

As the scope of the Society has broadened, Committees have been added to the original ones to deal with Student Travel Awards, Education and Career Development, Public Affairs and the American Type Culture Collection in an

Table 1  
Presidents of the American Society for Virology

Wolfgang K. (Bill) Joklik, Duke University Medical Center, 1981–1983
Harold S. Ginsberg, Columbia University College of Physicians and Surgeons, 1983–1984
Robert R. Wagner, University of Virginia, 1984–1985
Purnell W. Choppin, Howard Hughes Medical Institute, 1985–1986
Julius S. Youngner, University of Pittsburgh School of Medicine, 1986–1987
Paul J. Kaesberg, University of Wisconsin, 1987–1988
Kenneth I. Berns, Cornell University Medical College, 1988–1989
Roland R. Rueckert, University of Wisconsin, 1989–1990
Bernard N. Fields, Harvard Medical School, 1990–1991
Max D. Summers, Texas A and M University, 1991–1992
Sondra Schlesinger, Washington University School of Medicine, 1992–1993
Kathryn V. Holmes, Uniformed Services University of the Health Sciences, 1993–1994
Bernard Moss, National Institutes of Health, 1994–1995
Gail W. Wertz, University of Alabama at Birmingham School of Medicine, 1995–1996
Mary K. Estes, Baylor College of Medicine, 1996–1997
Thomas E. Shenk, Princeton University, 1997–1998
Peter M. Howley, Harvard Medical School, 1998–1999
Diane E. Griffin, Johns Hopkins School of Hygiene and Public Health, 1999–2000
Dennis J. O'Callaghan, Louisiana State University Medical Center, 2000–2001
Robert A. Lamb, Northwestern University, 2001–2002
Charles M. Rice, Rockefeller University, 2002–2003
Patricia G. Spear, Northwestern University, 2003–2004
Lynn W. Enquist, Princeton University, 2004–2005
Peter Palese, Mount Sinai School of Medicine, 2005–2006

advisory capacity. The Society helps support the International Congresses of Virology, primarily by providing travel awards for junior investigators, in part through grants from the National Institutes of Health, and also supports the International Committee on Taxonomy of Viruses.

Built on a firm foundation, the Society remains true to its original purpose, the advancement and promulgation of knowledge relevant to Virology. Started with discussions among individuals and small groups at the very beginning of the 1980s, it was the first Society for Virology in the world. Now there are such Societies in more than a dozen countries. Our Society currently has 3371 members (Fig. 1), 614 of whom are citizens of 44 countries outside the USA, including 183 from Canada.

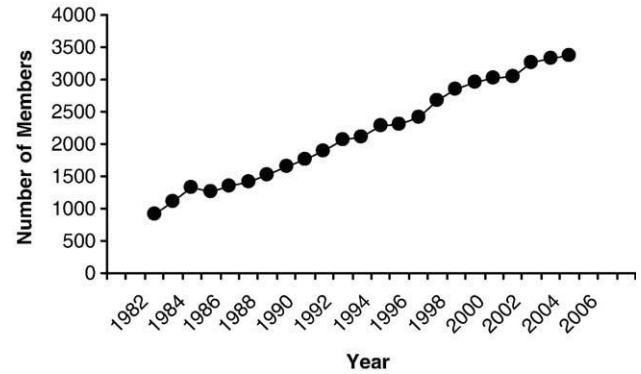
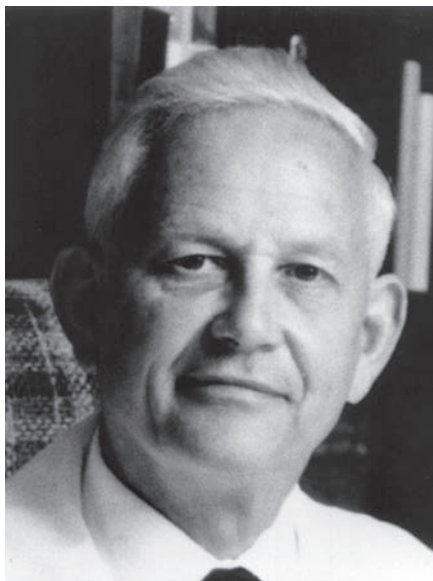
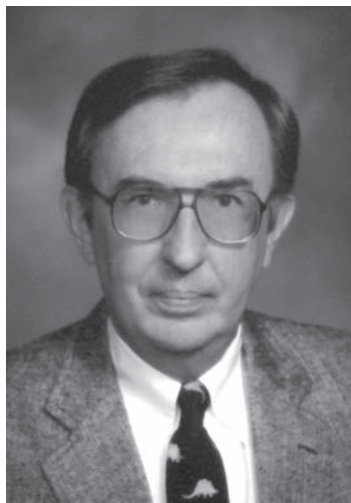


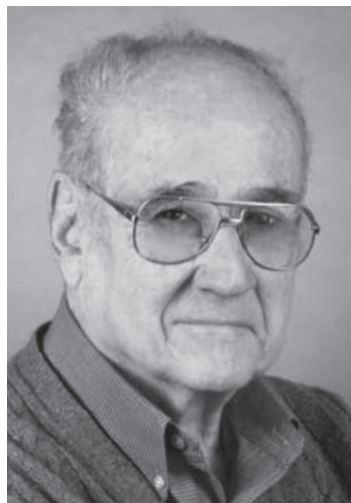
Fig. 1. Multistep growth curve showing the increase in membership of the American Society for Virology since its founding.



**Bill Joklik  
(1926-2019)  
President**



**Fred Murphy  
Council**



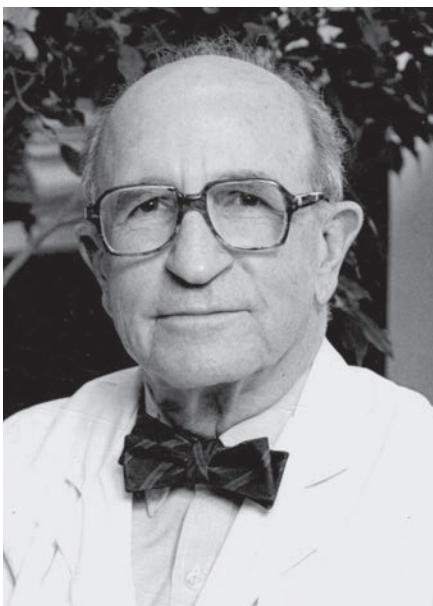
**Milt Zaitlin  
(1927-2016) Council**



**Dorothy Horstman  
(1911-2001) Council**



**David Bishop  
Secretary-Treasurer**



**Harry Ginsberg  
(1917-2003)  
Vice President**



**Max Summers  
Council**



**Bob Haselkorn  
Council**



**Priscilla Schaeffer  
(1943-2009) Council**



**The Founding  
Officers and  
Council Members  
1981**

**American Society  
for VIROLOGY**



**Melnick JL. The beginnings of the International  
Congresses of Virology. Archives of Virology  
1991;116:295-300.**

**The beginnings of the International Congresses of Virology**

How did the International Congresses for Virology begin? This question was repeatedly raised at the 8th Congress in Berlin, and I was asked to write this article for the record.

Virologists had been playing key roles in the affairs of the International Association of Microbiological Societies many years prior to 1968, the year of the first Virology Congress in Helsinki. They included Thomas M. Rivers (1939–47), MacFarlane Burnet (1953–58), Andre Lwoff (1962–70), and Victor M. Zhdanov (1970–74), each of whom served, in the years indicated, as President of the Executive Committee, and Sven Gard, who served as President of the 7th Congress for Microbiology in 1958.

Among virologists who attended Congresses of the International Association of Microbiological Societies (IAMS), in which virological reports were interspersed among presentations oriented toward a variety of other disciplines, it became clear that it would be desirable to have a separate Section of the IAMS devoted to Virology. But in order to be recognized by the IAMS, it was necessary to spring fully grown from the sea, as Aphrodite—perhaps not as beautiful a body, but a functioning one nevertheless. Thus during the IAMS Congress in Moscow, a small revolutionary group of workers, meeting at the home of Valentine Soloviev, felt that the time was ripe for the International Virologists of the World to unite. The group included Peter Wildy, Victor Zhdanov, Joseph Melnick, and subsequently we coopted Nils Oker-Blom. The affairs of the IAMS at that time were run by a bureaucracy whose main interest had been focused on Bacteriology for many years, and the Microbiology Congress failed to provide sufficient opportunities for virologists to meet and to discuss their rapidly developing discipline. Thus, once again, the usual International Congress for Microbiology was held, this time in Moscow, July 24–30, 1966, and 5,541 persons attended. The IAMS Newsletter of November, 1966, reported: “The IXth International Congress for Microbiology is now just memories. The memories vary: of meetings with old friends and making new; of strange sights and foods, and tussles with Intourist; of the circus and the ballet; of the Kremlin, the Hermitage, and the baboons at Sukhumi; of vodka, cognac, and Tzinandali and Russian hospitality; of luxurious suites and university dormitories; of many things.” Members of the Executive Committee of IAMS were provided with suites at the exclusive Sovietskaya Hotel reserved for visiting dignitaries, and they reported “we were well looked after”.

But working virologists were again disappointed: sessions devoted to Virology were few and far-apart, so that most fruitful virologic discussions were held impromptu, often at street corners while waiting for the Congress busses—which ran on infrequent and irregular schedules.

Our group of revolutionaries proposed to the Executive Committee of the IAMS that the virologists be allowed to form a Section within the IAMS. And if we were a Section, why not meet separately, preferably at different times from the large congresses?

The response to our petition was that virologists rightfully belonged among microbiologists, and could not be a separate body – and furthermore, that no significant virologists' group existed, so our request was without substance.

So much for 1966: If we were to become a recognized section, it would be necessary to spring upon the scene fully grown and functioning, perhaps not as Aphrodite but more like Athena from the head of Zeus.

The Helsinki Congress in 1968 came into being with the aid of an International Committee that was readily recruited from 39 countries. In attendance at that Congress were 536 working virologists, each of whom, in accordance with the admission regulations established by the International Committee, had to have contributed at least 3 significant publications to the world's virologic literature. The fact that so many persons qualified for attendance indicated how large and significant the literature of our science had already become.

I had the pleasure of serving as Secretary-General of the Helsinki Congress. A quotation from my opening remarks follows. "Now, this week, by our meetings and discussions of our laboratory work, we shall reaffirm our existence. Speaking not only for myself but also for each of the participants, I wish to express the appreciation that is owed to Professors Peter Wildy, Victor Zhdanov, and Nils Oker-Blom, with whom I have had the pleasure of serving on the Convening Committee, to the 39 members of the International Committee, and particularly to Professor Oker-Blom and his colleagues, to the University of Helsinki and its Medical School, to the City of Helsinki, to the Finnish Ministry of Education, and especially to the lovely and efficient ladies for the local arrangements for the Congress and the social and cultural events associated with it. For the Convening Committee, I also take this opportunity to express thanks to all members of the Congress who have come from near and distant lands, often at personal sacrifice, in order to discuss and exchange their new findings and interpretations at the main sessions and at the seminars. Finally, particular thanks are due for all the chairmen of the general sessions and seminars. Not only have they helped in organizing a most promising and informative program for the coming week, but also they have undertaken the task of preparing the reports which will stand in the published Proceedings as the record of this meeting – the First International Congress for Virology."

The Scientific Program of the First Congress consisted of ten General Sessions, two evening General Sessions of historical nature, and fifteen luncheon Seminars on topics of specialized interest. The fact that each General Session was attended throughout the week by 400 to 500 of the 536 registrants indicated profound and sustained interest. More specialized interests were satisfied through attending the luncheon seminars, each of which attracted 50 to 150 participants.

At the end of the week's program, in an effort to assure continuance of international meetings of virologists, the following resolutions were adopted unanimously by the entire membership of the Congress:

"The 536 members of the First International Congress for Virology whose names are listed below met in Helsinki during 14–20 July 1968 and held a series of daily scientific conferences.<sup>1</sup> The fact that so many of the world's leading virologists assembled in Helsinki

<sup>1</sup> The participants of the Congress are listed in: Melnik JL (ed) International virology 1, the proceedings of the First International Congress for Virology, Helsinki, 1968. Karger, Basel.

demonstrates the need and support for International Congresses for Virology. The benefits resulting from exchanges of information on current work in many different countries have led us to pass the following resolutions.

1. 'Be it resolved that the members of the First International Congress for Virology petition the International Association of Microbiological Societies to proceed at once to form a section on Virology, to include all branches of the science, and to arrange for future and regular International Congresses for Virology, with the Second International Congress to be held in 1971.'

2. 'Until such time as the International Association of Microbiological Societies establishes a Section in Virology with the responsibility of holding periodic International Congresses for Virology, the Secretary-General of the International Congress for Virology is requested to continue in office and to proceed with arranging for the Second International Congress for Virology in 1971. The responsibility for future International Congresses for Virology is to be turned over to the IAMS Section on Virology as soon as such a section is created and able to take over this responsibility.'"

The scene now shifts to Mexico City in 1970. In view of the fact that virologists provided firm evidence of their existence by having held a successful independent Congress in Helsinki, and faced with the real possibility of virologists withdrawing from the IAMS to form their own organization, the delegates to the 10th International Congress for Microbiology modified their statutes and agreed to the formation of a Section on Virology, a Section on Bacteriology, and ultimately a Section on Mycology. The virologists present at the Mexico City Congress, representing 24 countries, met and organized their Section. The elected officers were Joseph L. Melnick (Chairman), Peter Wildy (Vice-Chairman), Nils Oker-Blom (Secretary) and the elected Advisory Council consisted of S. Gaidamovich (U.S.S.R.), J. Hidaka (Japan), L. Hirth (France), E. Norrby (Sweden), A. J. Rhodes (Canada), and F. Fenner (Australia). The delegates voted to hold the Second International Congress for Virology in 1971 in Budapest. The Convenors of the First Congress were requested to continue to function in the same capacity for the Second Congress, and they were ably aided by a Hungarian Host Committee led by G. Ivanovics, E. Farkas, and I. Dömök.

The Budapest Congress was a huge success, with 984 virologists from 45 countries participating. Included in the Scientific Program of the Congress were five plenary sessions on topics of general interest, and thirty specialized workshops.

This Virology Congress was the first to meet within the official framework of the IAMS. The Council of the Virology Section met in Budapest and adopted the statutes by which the organization would function. These are set forth in *International Virology 2*, Proceedings of the Second International Congress for Virology, Budapest, 1971, J. L. Melnick, ed. (Karger, Basel).

The Council also discussed and recommended the creation of an international journal to be administered by the Virology Section. The first issue of *Intervirology* appeared soon thereafter. From 1972 to 1985, J. L. Melnick served as Editor-in-Chief, and from 1985 to 1990, F. Rapp.

At the outset, *Intervirology* included the following sections and editors: Viral Structure (A. F. Howatson); Plant Virology (A. J. Gibbs); Invertebrate Virology (T. W. Tinsley); Bacteriophage (N. D. Zinder); Replication of Animal Viruses (H. S. Ginsberg); Genetics (P. D. Cooper); Epidemiology (E. H. Lennette); Oncology (F. Rapp); Immunology (N. Oker-Blom); Classification and Nomenclature (F. Fenner). Subsequently two sections were added: Virus-Cell Relationship (G. Klein) and Comparative Virology (F. Brown). In addition to experimental papers, *Intervirology* became the repository of Taxonomic Study





The photograph was taken at a meeting of the Executive Committee and the Advisory Council at the Second International Congress for Virology, Budapest, 1971. Participants, clockwise starting at left, are: H. von Magnus (Denmark); F. Fenner (Australia); A. J. Rhodes (Canada); P. Wildy (U.K.); E. Farkas (Hungary); N. Oker-Blom (Finland); J. L. Melnick (U.S.A.); E. Norrby (Sweden); G. Ivanovic (Hungary); L. Hirth (France); J. H. Subak-Sharpe (U.K.); V. Rennick (U.S.A.)

Group papers and also published the official reports on Classification and Nomenclature of Viruses, issued by the International Committee on Taxonomy of Viruses. Another historic milestone of Intervirology included the publication of a series of “portraits” of the viruses. The idea of the portraits was conceived by Frank Fenner and Adrian Gibbs, who believed the time was ripe for asking senior virologists to prepare a portrait of the virus, or the family of viruses, that each had spent much of his or her life studying. The portraits were highly successful, and have been assembled as a book, *Portraits of Viruses: A History of Virology* (F. Fenner and A. J. Gibbs, editors). They should be required reading for students and others interested in this field of endeavor.

In 1991, the official Journal of the newly re-named Division (formerly Section) of Virology of the newly re-named International Union (formerly Association) of Microbiological Societies became the *Archives of Virology*.

Those who led the Congresses after Helsinki and Budapest are included in the Table, reproduced from Chairman Marc van Regenmortel’s slide presented at the 8th Congress in Berlin.

At the opening ceremony in Berlin, the Congress paid tribute to the “four founding fathers”. Unfortunately, Peter Wildy and Victor Zhdanov are no longer with us. I was privileged to be present but Nils Oker-Blom had previously committed himself to be lecturing that day on Virology Problems of the Developing World, at a meeting of the International Union of Biological Societies in Nairobi. However, he wrote to the Congress: “I feel very

honoured to be remembered at the opening ceremony of the VIIIth International Congress of Virology. I would have been extremely happy to be present at that occasion but unfortunately I had long ago promised to participate, at exactly the same time, in a meeting in Nairobi. I would be grateful if you could convey to the participants of the Congress, to the organizers and to all my friends my very best greetings and my wish for a splendid and scientifically successful Congress. It gives me great pleasure to see that the modest but enthusiastic start in Helsinki has resulted in a prosperous Virology Division, in better and better congresses and above all in an unbelievable progress of virology. Let us hope that this progress continues leading to a brilliant future for virology, a future made by all of you and, let us hope, especially by young promising virologists discovering new and interesting viruses and viral genes."

**Table.** International Congresses of Virology

	Conveners		Participants
1968 Helsinki	J. L. Melnick P. Wildy	N. Oker-Blom V. M. Zhdanov	536
1971 Budapest	J. L. Melnick P. Wildy	N. Oker-Blom V. M. Zhdanov	984
	Chairman	Vice-Chairman	
1975 Madrid	J. L. Melnick	P. Wildy	
1978 The Hague	P. Wildy	J. van der Want	~ 2,000
1981 Strasbourg	J. van der Want	F. A. Murphy	~ 2,200
1984 Sendai	F. A. Murphy	E. Norrby	
1987 Edmonton	E. Norrby	M. Van Regenmortel	~ 2,550
1990 Berlin	M. Van Regenmortel	B. W. J. Mahy	~ 4,000
1993 Glasgow	B. W. J. Mahy	R. Pettersson	

I would like to close these reminiscences with a quotation on the subject of International Virology from Peter Wildy, who was one of the leading figures in 20th century Virology, and who played a key role in founding the International Congresses:

"Something must be said about International Virology. Up until 1966, virologists were provided for by meetings held from time to time in different countries under the auspices of the International Association of Microbiological Societies. These meetings steadily grew in size and dullness and virologists became more and more disinterested. In 1966, four mutineers (ringleader: J. Melnick) decided to run an International Virology meeting independently. Though restricted mainly to viruses of vertebrates, the meeting (held in Helsinki) was successful and followed by other more comprehensive programmes in Budapest, Madrid, Amsterdam and Strasbourg [and since then in Sendai, Edmonton, and Berlin].

Several points have become clear. First, it is important for the health of virology and for the interests of virologists that meetings be held separately from others dealing with microbiological disciplines, in order to attain the maximum chance of personal encounter. Second, the breadth of virology is great enough to sustain varied combinations of interest.

Indeed, considerable ingenuity is required to ensure mutually fruitful exchanges. Third, the heterogeneity of virologists (and viropractors) is such that it has often been questioned whether it is wise to continue with such large congresses. So far, I believe they have been a powerful force of good communication. I hope that they remain so."

I believe that the Virology Congresses continue to be "a powerful force of good communication" and I believe that they will be so in the future.

Joseph L. Melnick  
Distinguished Service Professor  
of Virology and Epidemiology  
Baylor College of Medicine, Houston, Texas



**Some of the original documents  
from the founding of the Society, 1981,  
and its first meeting at Cornell University,  
1982**



# DUKE UNIVERSITY MEDICAL CENTER

*Department of Microbiology  
and Immunology  
Office of the Chairman*

March 26, 1981

Dear Colleague:

We are writing to you today on a rather important matter, namely to solicit your reaction to the desirability of starting an American Society for Virology.

The reasons for taking such a step are numerous; many of us have considered such a step at one time or another during recent years. There is no question that virology has long outgrown the confines of "Microbiology": it is an important discipline in its own right, a fact that is attested by the numerous high quality journals that are exclusively devoted to it. Further, it is primarily virology that has made possible the rapid rise of molecular cell biology. Strangely enough, however, virologists have no comfortable home among the major extant scientific societies. In the late fifties and early sixties advances in virology were usually communicated at the Immunology and Biochemistry sessions of the Federation Meetings, and many virologists were members of the AAI and the ASBC for the purpose of obtaining "options" for presenting papers at the annual Federation Meetings. In the late 60s virologists gravitated to the American Society of Microbiology, where a decade ago the Virology division was the strongest of the five divisions that existed at the time, and the most vital. However, recently there has been a change. Nowadays it is not the annual meetings of huge societies that are popular and attractive, but rather smaller and more specialized meetings, such as the Tumor Virus meetings at Cold Spring Harbor, the Negative-Stranded Virus meetings, the Poxvirus meetings, the Phage meetings (the latter, in fact, are meetings of long standing), and others. Satisfying though these meetings are, there is nevertheless a great deal to be said for broadening them. Indeed, the Biennial Gordon Conferences devoted to Virology are extremely popular, and so far fruitless attempts have been made to expand them, at least to the extent of making them annual instead of biennial.

If you agree that the time has come to explore the possibility of founding an American Society for Virology, please let us know. The problems associated with founding a new society are formidable: there are questions such as the constitution and the bylaws, the organization and location of a secretariat, the nature of the relation of such a new society to existing societies, and many

March 26, 1981

more. If you feel that we should move ahead in this direction, please let us know whether you would be prepared to attend an exploratory meeting at which we could examine the problems that we might face and how they might be overcome. We are sending this letter to a number of virologists; and if we find a favorable consensus, we propose to call a meeting in Chicago, near O'Hare International Airport, late in May or early in June, when we could spend a day to consider the matter further. We would be glad if you would indicate not only whether you would be prepared to attend such a meeting (and your preferred date), but also whether you would like to speak (for say, 10 min) on some aspect of getting a fledgling ASV off the ground, and whether you would be prepared to help in the organizational effort that would be involved.

With best wishes,

Cordially,

*Bill Tamik*

David Baltimore  
Purnell W. Choppin  
Harry Ginsberg  
Wolfgang K. Joklik\*  
Thomas E. Merigan  
Bernard Roizman  
Peter K. Vogt  
Robert R. Wagner  
Julius S. Youngner  
Norton D. Zinder

\* To whom replies should be addressed, hopefully by April 10, 1981.



# INTERNATIONAL UNION OF MICROBIOLOGICAL SOCIETIES



## VIROLOGY DIVISION

SECRETARY: Erling Norrby  
Department of Virology  
Karolinska Institutet SBL S-105 21  
STOCKHOLM 1 Sweden

CHAIRMAN: J. P. H. van der Want  
Department of Virology  
Agricultural University  
Binnenhaven 11 POB 8045 6700 EM  
WAGENINGEN The Netherlands

VICE-CHAIRMAN: F. A. Murphy  
College of Veterinary Medicine and  
Biomedical Sciences  
Colorado State University  
FORT COLLINS-CO 80523 USA

Immediate Past Chairman: P. Wildy    Advisory Committee: J. M. Boyé - P. W. Choppin - S. G. Drozdov - J. S. Porterfield - E. Rapp - R. Rott  
Chairman International Committee on Taxonomy of Viruses: R. E. F. Matthews

April 3, 1981

Dr. W. K. Joklik  
Duke University Medical Center  
Box 3020  
Durham, North Carolina 27710

Dear Bill

Grindings with ASM over an American bid to host the 1984 International Congress of Virology continue to reinforce in my mind your proposal to found an American Society for Virology. In Dallas at the ASM meeting the CDC-Atlanta proposal was met with approval but not enthusiasm. The bid is moving forward nonetheless, and I do not think your initiative need complicate this process. On the international front things are much better of late. I represented the Virology Division of IUMS at an informal meeting in Dallas of Americans involved in IUMS. Phil Gerhardt, President-elect of IUMS, is most anxious to build better relationships between the Divisions and to have the Executive Board broadly responsive. He will meet with Virology Division officers in Strasbourg. I am also working to have virologists on candidate lists for the next election for Presidency and Secretary-General of IUMS. I think this is a far cry from the situation of the past few years <sup>in</sup> IAMS/IUMS wherein virologists were considered as lepers.

I will try my best to be at your meeting in Chicago to represent Virology Division/IUMS. I don't think I would need much speaking time -- just enough to say that the Virology Division would be prepared to mesh with the new Society immediately. The best day for me would be Saturday, 23 May (I will be in Chicago on my way back from Strasbourg). Otherwise, I would try to fly to Chicago just for your meeting.

One other matter brought up by Phil Gerhardt: He is working through the National Academy of Sciences toward establishment of a National Committee on Microbiology. It seems that even Gerhardt recognizes the fact that ASM does not represent all of the field (virology is not the only problem area). This National Committee would become the interface with international organizations and would especially help now that the IUMS has elevated itself to Union status (a level at which governments provide funds for international organization -- in our case via NSF). If the makeup of this National Committee is fair (i.e., not dominated by ASM), then it would be good for virology. Of the 700+ Americans on the Strasbourg Congress list, I'd guess that less than half are ASM members -- in fact, I have had only trouble trying to reach virologists using ASM channels.

Finally, I would urge that in your plan to establish a scholarly scientific Society (rather than a vocational organization like ASM), you seek to involve the broadest cross-section of virology. There are only good vibes coming from our interdisciplinary programmes for the International Congresses -- and the same would come if you are able to draw in the full range of interests from molecular biology to pathogenesis of disease, from phage virology to medical virology (even veterinary virology), from genetics to tropical medicine. You can do this and still draw up short of competing with other Societies such as the Infectious Diseases Society

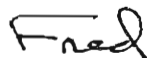
Dr. W. K. Joklik, April 3 continued

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relevance) into basic science themes, such as recommended for the dsRNA virus meeting you are planning with David Bishop, should be recognized in your planning of the Society. I think that your letter gains much by its distinguished list of signatories. I think that this approach, broadened to show that the leaders in all areas of virology are involved, would be advantageous. There are several subsets of virologists who separately feel that they have no proper forum for exchange; nothing would be lost if they were to come under your ASV umbrella. The key is to draw their leaders in.

Thank you for taking this initiative -- see you in Chicago.

Sincerely,

A handwritten signature in dark ink, appearing to read "Fred", written in a cursive style.

Frederick A. Murphy  
Vice-chairman and Chairman-elect  
Virology Division/IUMS

FAM/jw

Enc.



Duke University Medical Center  
DURHAM, NORTH CAROLINA  
27710

DEPARTMENT OF MICROBIOLOGY  
AND IMMUNOLOGY

April 27, 1981

TELEPHONE (919) 684-5138

Dear Colleague:

We would like to update you concerning developments in connection with founding an American Society for Virology.

We received replies from about seventy-five percent of those whom we contacted. The response was overwhelmingly positive. Almost all of you indicated that you would be prepared to help in one way or another; and many of you said that you would, if at all possible, attend an inaugural meeting. We have examined the calendars of as many as possible and decided that Tuesday June 9 is the day when most of us could meet in Chicago. Bernard Roizman has reserved a room for us at the O'Hare International Inn, which is very close to the airport, and we will meet there starting at 10 a.m. Please do not hesitate to come earlier for informal discussion before the proceedings begin. We plan to invite Al Balows, Fred Neidhardt, John Sherris and Harry Gooder of the ASM to join us. The meeting should last till about 4 p.m., so that it should be safe to fly out any time after about 5 p.m.

Please complete the form below and return it to Bill Joklik at your earliest convenience so that we may know how many to expect.

We look forward to seeing you on June 9. Until then, with best wishes,

Cordially,

*Bill Joklik*

David Baltimore  
Purnell W. Choppin  
Harry Ginsberg  
Wolfgang K. Joklik  
Thomas E. Merigan  
Bernard Roizman  
Peter K. Vogt  
Robert R. Wagner  
Julius R. Youngner  
Norton D. Zinder



# DUKE UNIVERSITY MEDICAL CENTER

*Department of Microbiology  
and Immunology  
Office of the Chairman*

June 25, 1981

Dear Colleague:

The following is an update on the status of the American Society of Virologists (tentative name).

We had a very successful meeting in Chicago on June 9. Forty virologists were present, and three Presidents/Presidents-Elect of the ASM. We had an excellent discussion lasting some 5 1/2 hours and passed the following resolution:

That an American Society of Virologists be formed.

After due debate and discussion, this resolution was passed with no abstentions and two dissenting votes (for reasons that were not obvious). It was the clear intent of the virologists assembled that this be a Society with restricted membership along the lines of the American Society of Biological Chemists, membership in which is granted only by election after submission of appropriate supporting material and letters from sponsors.

The implementation of organizing the new society was entrusted to two virologists who were elected from a slate of six; those elected were Bill Joklik and Harry Ginsberg. They are charged with assembling a committee which is to include a clinical/applied virologist, a plant virologist, an insect virologist and a bacterial virologist, and is to work out technical/administrative/legal/financial details concerned with founding the new society. I should mention that the ASM appears to object strongly to the name American Society of Virology and would greatly prefer the name American Society of Virologists. The name of the new Society is of course another matter to be considered by the committee. The committee is also charged with meeting with appropriate officials of the ASM in order to determine whether an ASV could be associated with the ASM in some way. Finally, the committee is charged with organizing a scientific meeting, the first of an annual series, for all virologists. It is likely that this meeting will be held sometime in the Spring of 1983. It is probably too late to organize such a meeting for the Spring of 1982, but if we find that we can organize a virology meeting for that time, we will do so.

Both Jules Hallum (Department of Microbiology and Immunology, University of Oregon Health Sciences Center, 3181 S.W. Sam Jackson Park Road, Portland, Oregon 97201) and Glenn Gentry (Department of Microbiology, The University of Mississippi Medical Center, 2500 North State Street, Jackson, Miss. 39216) wrote up minutes of the Chicago meeting and will be glad to supply them upon request.

We will keep you informed of all further developments. With best wishes for a pleasant summer,

Cordially,

A handwritten signature in cursive script, appearing to read "Bill".

Dr. W. R. Joklik

WKJ/kge



Colorado State University  
Fort Collins, Colorado  
80523

College of Veterinary Medicine  
and Biomedical Sciences  
Office of the Dean  
303/491-7051

July 8, 1981

Dr. W. K. Joklik  
Department of Microbiology  
and Immunology  
Duke University Medical Center  
Box 3020  
Durham, North Carolina 27710

Dear Bill:

Thank you for sending word about the foundation meeting of the American Society of/for Virology (phooey on ASM's wish to dictate the name). I hope the future of the Society is discussed in detail in the hallways in Strasbourg.

I think your idea to start off with a meeting is excellent. As I've said before, I hope that all scholarly disciplines falling under the general heading "virology" are included in this first program. I say this for fear that once the scope of the Society is defined by this first program, it will be more difficult to draw in additional specialty groups. In some cases individuals will decide whether or not to join in, but in other cases groups (and their conservative leadership) will be deciding whether to join in. I am particularly interested in seeing that the "scholarly end" of veterinary virology is drawn in -- this would do much to elevate the quality of this large enterprise. As for arbovirology, I shall be curious as to how the ASV interfaces with virologists who otherwise call the American Society of Tropical Medicine & Hygiene their home. I'm going to explore this with some of the arbovirologists.

It's interesting that some people, when first seeing your update of June 25, commented that "it's just another society", one that would need to be added to ASM membership. However, later as people reflected further, I think the concept of restricted membership gained in favor and the question of whether virologists need also keep up their ASM membership seemed more separate. I think the latter issue will take quite a while to resolve and will be influenced by new interest in virology by ASM.




Dr. W. K. Joklik  
Page 2  
July 8, 1981

Anyhow, I will be glad to help in any way I can. Thanks are due to you and Harry Ginsberg for taking this initiative.

Best regards.

Sincerely,

A handwritten signature in black ink that appears to read "Fred". The letters are stylized and connected.

Frederick A. Murphy

xc: Dr. H. S. Ginsberg

FAM/amb



# DUKE UNIVERSITY MEDICAL CENTER

*Department of Microbiology  
and Immunology  
Office of the Chairman*

September 16, 1981

Dear *Fred* :

I hope that you all had a pleasant summer and are ready to face a new academic year. I would like to take a moment to tell you about the latest developments concerning the proposed American Society for Virology. You will recall that an inaugural meeting was held in Chicago on June 9 which was attended by about 50 virologists, animal, plant and bacterial, as well as by the ASM Presidents for 1980-81 (Al Balows), 81-82 (Fred Neidhardt) and 82-83 (John Sherriss). At this meeting it was resolved almost unanimously (with only two dissenting votes) to found an American Society for Virology and Harry Ginsberg and I were charged with forming a committee to implement this resolution. We asked Dorothy Horstman, Fred Murphy, Max Summers, Milt Zaitlin and Bob Haselkorn to join us and met in New York on July 15. We discussed the spectrum of issues that we would have to face and zeroed in on two primary problems. The first concerns membership. The virologists at the Chicago meeting strongly favored a professional society modelled along the lines of the American Society of Biological Chemists or the Infectious Diseases Society which elect members on the basis of nominations by sponsors and review of curricula vitae and bibliographies. In order to get the ASV off the ground, I have assembled a list of about 650 virologists including general and molecular animal virologists as well as clinical, veterinary, insect, plant and bacterial virologists, whom we propose to invite to join the new society as charter members. The charter members would then appoint a Membership Committee which would be charged with first developing rules for electing additional members, and then actually electing them.

Our second major concern was to plan a major meeting of virologists for next summer. This would be the first annual meeting of the ASV. We thought that it would be best to hold this meeting on a University campus and Milt Zaitlin found that Cornell at Ithaca could accomodate a virology conference during August 2-5, 1982, and we have reserved this time. I enclose a memorandum containing both an invitation to become an ASV charter member and the announcement of this meeting at Ithaca next summer which we propose to send to the 650 virologists mentioned above.

In the meantime, Dorothy Horstman and Bob Haselkorn are looking into the question of a constitution for the new Society; we plan to announce the formation of the new society and the plans for next summer's meeting in leading scientific journals; and we are beginning to explore means of raising funds to support the new society in general and help underwrite next summer's meeting in particular. Finally, Harry Ginsberg and I will be meeting with the officers of the ASM on October 31 in Washington in order to explore the nature of the

September 16, 1981

relationship between the new ASV and the ASM. We would like this relationship to be a close one; but we would like to organize our own annual meeting, and we would like the ASV to be a society of scientists who are making substantial contributions to our discipline.

Please let me have your reaction to these activities and plans and to the enclosed memorandum. The Society can only flourish with maximum input from everyone.

With best wishes,

Cordially,

*Bill*

Dr. W. K. Joklik

WKJ/kge

cc: David Baltimore  
Purnell Choppin  
Harry Ginsberg  
Bob Haselkorn  
Dorothy Horstman  
Tom Merigan  
✓ Fred Murphy  
Bernard Roizman  
Max Summers  
Peter Vogt  
Bob Wagner  
Juli Youngner  
Milt Zaitlin  
Norton Zinder



# DUKE UNIVERSITY MEDICAL CENTER

*Department of Microbiology  
and Immunology  
Office of the Chairman*

October 9, 1981

Dear Colleague:

For some time many of us have come to feel the need for a society of virologists. After intensive discussion involving some 200 scientists during the early part of this year, about 50 virologists met in Chicago in June where it was resolved that an American Society for Virology should be founded for all virologists (general and molecular, clinical, veterinary, insect, plant and bacterial). It was agreed that this Society should be a professional society to which members would be elected following nomination and review of curriculum vitae and bibliography; and that this society should plan and arrange its own annual meetings.

The purpose of this circular is two-fold. First we would like to invite you to become a Charter Member of the new ASV. If you wish to become a Charter Member would you please so indicate on the form below and return it together with a check for \$25 made out to "American Society for Virology". The funds that we collect will enable us to pay for secretarial and postage expenses until next summer, when an annual fee structure will be implemented. Second, we would like to invite you to participate in the first annual meeting of the ASV at Cornell, Ithaca, from August 2-5, 1982. Every Charter Member will be able to bring as many of his colleagues as he wishes; please indicate on the form below whether you plan to attend and how many others from your laboratory will accompany you. Announcement of this meeting will also be made in scientific journals. This first meeting of the ASV will be open to all virologists; thereafter the annual meetings of the ASV, like meetings of the American Society of Biological Chemists or of the Infectious Diseases Society, will be open only to members of the Society and their collaborators.



October 9, 1981

Would you please return the form below to Bill Joklik by October 31. As soon as we know how many scientists are likely to attend next summer's meeting we will proceed with the task of organizing symposia, seminars and sessions.

With best wishes,

Cordially,

David Baltimore  
Purnell Choppin  
Harry Ginsberg  
Bob Haselkorn  
Dorothy Horstman  
Bill Joklik  
Tom Merigan  
Fred Murphy

Bernard Roizman  
Max Summers  
Peter Vogt  
Bob Wagner  
Juli Youngner  
Milt Zaitlin  
Norton Zinder

-----  
(a) I would like to become a Charter Member of the ASV

☐

Yes

☐

No

(b) Check for \$25 enclosed

☐

Yes

(c) I will attend the first Annual Meeting of the ASV at Cornell, Ithaca, on August 2-5, 1982

☐

Yes

☐

No

(d) I will be accompanied by \_\_\_\_ colleagues

\_\_\_\_\_  
Name (please type or print)

Please return to:

Dr. W. K. Joklik  
Department of Microbiology and  
Immunology  
Box 3020  
Duke University Medical Center  
Durham, NC 27710

## **A Special Message from the President**

An issue of some consequence to ASM has arisen: the plan of some of our members to form a new organization of virologists.

Late this spring the officers of ASM received information that a survey had been made of a sample of virologists to test whether there was enthusiasm for forming a virology association. The survey indicated considerable interest, and an exploratory meeting was therefore held on 9 June 1981 at O'Hare International Inn, Chicago, Ill. Wolfgang Joklik extended an invitation to Albert Balows, John Sherris, and me to attend this meeting on behalf of ASM as observers and discussants. All three of us accepted.

The meeting was opened with an address by Bill Joklik. Morning and afternoon discussion sessions (chaired by Julius Youngner and Harry Ginsberg, respectively) provided a means for the some 50 attendees to address the questions What is the need for an organization of virologists? What form and function might a new society have? and What would be its relation to ASM?

As ASM officers, Al, John, and I were there first of all to listen. We heard many statements addressed to the need for a new organization. Some statements were concerned with philosophy and included the opinions (i) that virology today has less affinity with microbiology and more with cell and molecular biology and is sufficiently independent in a scientific sense to go it alone and (ii) that the furtherance of virology might best be served by an organization composed exclusively of virologists who had met entrance requirements stricter than those of ASM. Other statements were quite pragmatic: (iii) that ASM is not serving the needs of virologists, particularly in the area of scientific meetings, and (iv) that virology is not adequately represented in the governance of ASM.

Your officers vigorously questioned premises (i) and (ii). We also responded to the pragmatic points by indicating how virologists already benefit greatly from our society and how they

can have ASM serve their needs even more fully. We held quite different views from most of the attendees. In the end they endorsed a plan to begin organizing a new society.

The form of the new group is not yet fixed, nor is its relationship to ASM. The organizing committee, headed by Harry Ginsberg and Bill Joklik, is charged with drafting more definite plans.

I view a new society of the general sort talked about in Chicago to be ill-advised. It is unnecessary for the growth and maturation of modern virology, and it holds several possibilities for a weakening of organized microbiology, including virology.

On the other hand, I do not discount the expressions of dissatisfaction I heard in Chicago. I have taken steps that address each of the complaints I heard. Moreover, ASM can scarcely point to more active and devoted members than Harry Ginsberg and Bill Joklik. As officers at various times of the Virology Division, they have worked long and hard for ASM. In numerous ways each has enhanced the effectiveness and value of ASM. They and their many colleagues in virology have contributed a real measure of distinction to the society during the past decade and a half. They have personally assured me that they intend individually to remain active in ASM and that they want the new virology organization to be closely affiliated with ASM, perhaps as a "member organization" in some newly constructed "ASM federation." I want to keep these valued friends and colleagues united with the rest of us in ASM, but we all must recognize that this may not be possible.

A meeting will be held in Ann Arbor, Mich., in late September or early October that will bring together the virology organizers with ASM officers and relevant board chairpersons. A list of questions or specific proposals will be prepared in advance for discussion at the meeting. We look for an exchange of ideas and views—not decisions—at this time. The Council Policy Committee will receive a report at its regular meeting in November, and of course the entire Council will be kept informed of any significant developments and will be directly involved next March in Atlanta.

A subsequent issue of the *ASM News* will contain a more complete treatment of the specific issues involved. For now, I want the members of ASM to know that, short of compromising principles that are central to ASM, I shall do everything possible to preserve the union.

**Frederick C. Neldhardt**



# DUKE UNIVERSITY MEDICAL CENTER

*Department of Microbiology  
and Immunology  
Office of the Chairman*

November 30, 1981

Dr. Frederick A. Murphy, Dean  
College of Veterinary Medicine and  
Biomedical Sciences  
W-102-Anatomy  
Colorado State University  
Ft. Collins, CO 80525

Dear Fred:

Here is an update concerning the proposed new Virology Society. I have taken steps to have the Society registered and incorporated by a lawyer here in Durham. I am using the constitution prepared by Bob Haselkorn and Dorothy Horstman, leaving it as flexible as possible so that anything that is presently in it can be changed by a simply majority vote. The title that I have registered is American Society for Virology. The reason for this is that we have received many checks made out to the American Society for Virology. Of course the name also can be changed if we so desire. The legal work should be finalized this week.

I sent out about 650 invitations to virologists to become charter members of the Society. To date I have received about 375 replies, almost all with a check. Only four or five have said they will not join for one reason or the other (usually "professional non-joiner"). Almost all have indicated that they would attend the Virology meeting in Ithaca next year, accompanied by 1-3 junior collaborators. This means that 700-1,000 people are likely to come to Ithaca.

I propose that we now invite each charter member to submit the name of one more scientist for admission to the Society. The reason for this is that I have a sizeable number of enquiries/complaints/requests/pleas from people who were not invited to be charter members but who would like to be members, and I think that it would be wise to show that we are not too exclusive. In addition, this may well stimulate those who have not yet replied to the invitation to become Charter members to do so (with a check). I suggest that we set up a Membership Review Committee to review the new applications. I will request that applications consist of a Curriculum vitae, a bibliography, and a reasonably detailed letter of recommendation from the sponsor. I suggest that the Membership Review Committee consist of four molecular virologists, and two each clinical, veterinary, insect, plant and microbial virologists. I suggest that applications be reviewed by two experts in the appropriate discipline plus one

randomly picked nonexpert, and that membership be recommended/refused by majority vote of the entire committee. All scientists cleared for admittance would then be asked to contribute the \$25. These funds should hold us through the meeting and probably to October 1, which we could make a start of our fiscal year.

Another matter is the organization of the meeting at Ithaca. If I understand it right, we will have four days there, or at least four mornings and three afternoons; perhaps four afternoons. I propose that we turn over the afternoons to what may be called the "specialities"; that is, the herpes-virologists, the poxvirologists, the negative RNA stranded virologists, the retrovirologists, and the like. Some will be able to use all three or four available afternoons; others may not be able to do so, but this will pose no problem because in that case people will just be able to attend the other speciality programs. Each speciality would then appoint their own committee to determine the mix of slide and poster presentations that they prefer. All that would be necessary would be to let Cornell know how many and what size rooms would be required.

The major problem is the morning program. Cornell has meeting rooms of all sizes, including a hall seating 2,000 plus. My preference would be for all of us to attend the same morning program; in other words, we would all meet together in the mornings, and split up in the afternoons. Let us assume that we would have presentations one hour long by leaders in specific areas; such lectures could provide a roughly half hour background of where the field stands, and half an hour devoted to a description of what has interested the speaker most during the last couple of years or so. This would generate 20 to 30 lectures (primarily on the various virus families (from vertebrate to microbial), plus lectures devoted to the disease-related aspects of viruses). Four mornings could accomodate 12-16 lectures; one would therefore either have to have concurrent sessions, or also use the evenings. The latter is the alternative that I would recommend. The argument that this would make the program too intensive would be countered by saying that no one would be expected to attend each and every session: thus everyone might attend two-thirds of all sessions, which would leave everybody with one-third of the total time for discussion and informal get-togethers.

Finally, we wondered some time ago whether it might be possible to obtain funds from industry to support the new Society in general and the annual meeting in particular. I would be grateful if you would send me the names of companies (and the names of individuals in companies) whom we could contact for donations of about \$1000 each. Help from ten to twenty such companies would make life much easier.



Please let me have your reactions to all these proposals as soon as possible. In particular, I would like to have your reaction to the proposed expansion of membership and how to handle application for membership, and your views on the structure of the meeting program. We should start sending out letters inviting people to give lectures and contacting key people in the various specialities before Christmas, so that the program can be arranged in good time. The final question is whether we should provide abstracts. Printing abstracts may be a big job; and I don't know how expensive it would be. Please let me have your views on this. Certainly we should let Milt Zaitlin know as soon as possible how many meeting rooms we need and their size, so that we can get out a program with room numbers in good time.

With best wishes,

Cordially,

*Bill*

Dr. W. K. Joklik  
Chairman

WKJ/kge

cc: David Baltimore  
Purnell Choppin  
Harry Ginsberg  
Bob Haselkorn  
Dorothy Horstman  
Tom Merigan  
Fred Murphy  
Bernard Roizman  
Max Summers  
Peter Vogt  
Bob Wagner  
Juli Youngner  
Milt Zaitlin  
Norton Zinder



Minutes of the  
Meeting of the Steering Committee of the American Society for Virology,  
New York, January 7, 1982

1. The Committee met at 11 a.m. in Dr. Harold Ginsberg's office at 701 One Sixty-eighth Street. Those present were Drs. Harry Ginsberg, Bob Haselkorn, Dorothy Horstman, Bill Joklik, Fred Murphy, Max Summers, and Milt Zaitlin.

2. The two principal items of discussion were:

a) Expansion of membership. It was resolved that each of the original charter members of the Society be invited to nominate one additional member. Each new member would signify his/her intention of joining by submitting the joining fee of \$25 by March 15.

b) The meeting at Cornell (August 2-5, 1982) was planned. There will be a symposium on each of the four mornings. The symposia will be:

1. Genome Structure and Expression
2. Mechanisms of Infection
3. Transformation and Persistence
4. Epidemiology and Ecology

These Symposia, each with three speakers, will be chaired by Bill Joklik, Dorothy Horstman, Harry Ginsberg, and Fred Murphy, respectively. Six names were suggested for each symposium and Bill Joklik is to contact and invite the speakers. The first Symposium will be preceded by a 30 minute Introductory Business Meeting at which the history of and rationale for founding the Society will be discussed.

Monday afternoon, Tuesday evening and Wednesday afternoon will be devoted to Workshop Sessions (3 hours or, at night, open-ended). The workshops will be as follows:

Poxviruses and	Mycoviruses	Clinical Virology/Immunovirology
Iridoviruses	Picornaviruses	Diagnostics
Herpesviruses	Togaviruses	Antivirals/Interferon
Adenoviruses	dsRNA viruses	Veterinary viruses
Papovaviruses	Negative-stranded	Viral hemorrhagic fevers
Parvoviruses	RNA viruses	Arboviruses
Plant viruses	Retroviruses	Arthropod virus vectors
Insect viruses	Arenaviruses	
Bacterial viruses	Coronaviruses	

There will be an informal mixer on Sunday evening when most people will arrive. Monday evening is free, as is Wednesday evening, when there will be a cocktail party. At 2 p.m. on Tuesday afternoon there will be a Business Meeting to discuss and adopt a Constitution, elect Officers and Committee Members, select the location of the next Annual Meeting, and to transact any other business.

The meeting adjourned at 3 p.m.

*Bill Jollid*  
\_\_\_\_\_



# DUKE UNIVERSITY MEDICAL CENTER

*Department of Microbiology  
and Immunology*

January 22, 1982

Dear Colleague:

For some time many of us have come to feel the need for a society of virologists. After intensive discussion involving some 200 scientists during the early part of last year, about 50 virologists met in Chicago in June where it was resolved that an American Society for Virology should be founded for all virologists (general and molecular, clinical, veterinary, insect, plant and bacterial). It was agreed that this Society should be a professional society to which members would be elected following nomination and review of curriculum vitae and bibliography; and that this society should plan and arrange its own annual meetings.

The purpose of this circular is two-fold. First we would like to invite you to become a member of the new ASV. If you wish to become a member would you please so indicate on the attached form and return it together with a check for \$25 made out to "American Society for Virology". The funds that we collect will enable us to pay for secretarial and postage expenses until this summer, when an annual fee structure will be implemented. Second, we would like to invite you to participate in the first annual meeting of the ASV at Cornell, Ithaca, from August 2-5, 1982. Every member will be able to bring as many of his/her colleagues as he/she wishes; please indicate on the attached form whether you plan to attend and how many others from your laboratory will accompany you. Announcements of this meeting are also being made in scientific journals. This first meeting of the ASV will be open to all virologists; thereafter the annual meetings of the ASV, like meetings of the American Society of Biological Chemists or of the Infectious Diseases Society, will be open only to members of the Society and their associates/guests

Would you please return the attached form to Bill Joklik by March 1.

With best wishes,

Cordially,

David Baltimore  
Purnell Choppin  
Harry Ginsberg  
Bob Haselkorn  
Dorothy Horstman  
Bill Joklik  
Tom Merigan  
Fred Murphy

Bernard Roizman  
Max Summers  
Peter Vogt  
Bob Wagner  
Juli Youngner  
Milt Zaitlin  
Norton Zinder



# DUKE UNIVERSITY MEDICAL CENTER

~ FEB 1982

*Department of Microbiology  
and Immunology*

Dear Colleague:

Here is an update concerning the new American Society for Virology. A Steering Committee composed of Harry Ginsberg, Bob Haselkorn, Dorothy Horstman, Bill Joklik, Fred Murphy, Max Summers and Milt Zaitlin has met twice in order to chart plans for founding the Society and to organize the first annual meeting.

1. Invitations were sent to 650 virologists to become Charter Members of the Society. Four hundred and five members have replied and sent their \$25 joining fee. These 405 members constitute the founding members of the Society.
2. We are taking steps to register and incorporate the Society and to obtain tax exempt status for it. Once the Society is incorporated, your checks will be deposited; your cancelled checks will be your receipt unless you specifically request one.
3. Only a handful (less than 10) of those invited to be Charter Members have declined in writing. About 230 of those who were invited to become Charter Members have not yet replied. Would you please indicate to Bill Joklik whether you wish to join and send him your \$25, or advise him in writing that you do not wish to become a member of the new Society. If we have not heard from you by March 1 we will assume you do not wish to be associated with the new Society.
4. In order to expand the membership we would like to invite each member to nominate one other virologist to also become a Charter Member. Criteria for membership are demonstrated expertise as indicated by a good bibliography, the award of research grants, or being in charge of laboratories. A list of the 650 who were invited to become Charter Members in November is enclosed. Please transmit the letter that I enclose to your nominee with the request to return the attached form to Bill Joklik together with the \$25 joining fee. All those who signify in writing that they wish to join and send in their checks by March 15 will be considered to be members of the Society.
5. Additional members will be admitted to the Society via a nomination and review process that will require a nomination letter by a member of the Society, and submission of a Curriculum vitae and a bibliography, followed by screening by a Membership Review Committee that will be elected at the annual meeting of the Society in August (see below).
6. The annual meeting of the Society will be held on the Campus of Cornell University at Ithaca from August 2-5, 1982. The first meeting of the Society will be open to all; indeed, the meeting is being advertised in several scientific journals. Subsequent meetings will be open to members of the Society who will be entitled to bring as many associates/guests as they wish. Thus all

those attending subsequent meetings must be either members of the Society or official guests of members.

7. The number of participants at Cornell will be limited to 2,000. If more than 2,000 virologists apply to attend, it will be necessary to reject some applicants. First preference will be given to Charter Members and their associates/guests, and others will be selected on a first come-first served basis.

8. The Meeting Program will be as follows. There will be one symposium each morning, three speakers per symposium (9 a.m. - 12 noon). Those who have agreed to speak include David Baltimore, Mike Bishop, Bernard Fields, Peter Geiduschek, Karl Johnson, Jan Kaper, George Miller, Tom Monath, Peter Palese, Mark Ptashne, Bill Robinson, and Max Summers.

There will be three workshop sessions, on Monday afternoon, Tuesday evening and Wednesday afternoon. These workshop sessions, together with the Convenors, will be as follows:

<u>Workshop</u>	<u>Convenor</u>
Poxviruses and Iridoviruses	John Holowczak
Herpesviruses	Bernard Roizman
Adenoviruses	Harry Ginsberg
Papovaviruses	Norman Salzman
Parvoviruses	Barry Carter
Plant viruses	Bob Goodman
Insect viruses	Max Summers
Bacterial viruses	Bob Haselkorn
Mycoviruses	Paul Lemke
Picornaviruses	Roland Rueckert
Togaviruses	Walter Schlesinger
ds RNA viruses	Bill Joklik
Negative-stranded RNA viruses	Bob Wagner
Retroviruses	Peter Vogt
Arenaviruses	Bill Rawls
Coronaviruses	Katherine Holmes
Clinical virology/Immunology	Ken MacIntosh
Diagnostic virology	G. D. Hsiung
Antivirals/Interferon	Lowell Glasgow
Veterinary virology	Jim Gillespie
Viral Hemorrhagic Fevers	Karl Johnson
Arboviruses	Bob Shope
Arthropod virus vectors	Bill Rochow

These workshops will consist of 10 min papers with 5 min for discussion. All those wishing to present papers are asked to contact the appropriate Convenor, providing the title of the presentation and the names of authors. The Convenors will arrange submitted papers in appropriate order; if there are too many papers submitted for any particular workshop it may be necessary to select those that will be presented. Abstracts will not be required.

There will be a business meeting on Tuesday afternoon for discussion and adoption of a Constitution, election of officers and committee members, selection of the location of the next annual meeting, and the transaction of any other business.

There will be an informal mixer on Sunday night and a cocktail party on Wednesday evening.

9. Accommodation and meals will be provided on the campus of Cornell University at very reasonable rates. Rooms will also be available in nearby motels. An announcement with relevant information will be sent in the near future. It will also be possible to accommodate a limited number of accompanying family members. Reservation will be accepted on a first come-first served basis.

10. There will be a registration fee of \$50 to cover payments to Cornell, rent of meeting rooms, transportation between dormitories and meeting rooms, projectionists, coffee breaks, the Sunday night mixer, etc.

11. Please transmit the following:

a. The enclosed letter and form to those whom you wish to invite to join the Society. Please also xerox for them this letter and the Workshop Participation form. Please do this as soon as possible.

b. The enclosed Workshop Participation Form to the Convenor of the Workshop at which you would like to present your paper.

Please call Bill Joklik ((919) 684-5138) if you have questions concerning the Society or the meeting program, or Milt Zaitlin ((607) 256-3243) if you have questions concerning transport to and accommodation at Cornell.

We hope to see you at Cornell. Until then, with best wishes,

Cordially,

David Baltimore  
Purnell Choppin  
Harry Ginsberg  
Bob Haselkorn  
Dorothy Horstman  
Bill Joklik  
Tom Merigan  
Fred Murphy

*Bill*

Bernard Roizman  
Max Summers  
Peter Vogt  
Bob Wagner  
Juli Youngner  
Milt Zaitlin  
Norton Zinder



AMERICAN SOCIETY FOR VIROLOGY  
First Annual Meeting, Cornell University  
August 2-5, 1982

April 5, 1982

Dear Colleague:

Enclosed is registration information for the first meeting of our Society. We urge you to return your registration forms early; the interest has been phenomenal and we expect the meeting to be over-subscribed. Since registration materials are being sent principally to those who have been invited to become charter members, please feel free to duplicate the information and forms for anyone interested in attending. The meeting is open to all, but members and their immediate colleagues will be given registration priority until June 1.

We are organizing the meeting along the lines of the International Congresses for Virology. There will be four symposia in the mornings (Monday through Thursday), many concurrent workshop sessions (Monday afternoon, Tuesday evening and Wednesday afternoon) and a business meeting on Tuesday afternoon. We have also arranged a number of tours and social activities to make your stay a pleasant one.

We look forward to your participation and will do our best to make our first meeting a success.

Yours sincerely,

*Milton Zaitlin*

Enclosures

REGISTRATION

American Society for Virology  
First Annual Meeting

Cornell University  
Ithaca, New York

August 1-5, 1982

PLEASE PRINT OR TYPE

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ PHONE: \_\_\_\_\_  
AND ZIP

I wish to share a room with: \_\_\_\_\_

REGISTRATION is limited to 2,000 people. Preference will be given to members of the Society and their immediate colleagues prior to June 1, 1982. After that date, registration will be accepted first come-first serve basis.

CONFERENCE ATTENDEES \$50.00 \$ \_\_\_\_\_

Please check if: Member ☐

Immediate Colleague of Member ☐

Non-Member ☐

ACCOMPANYING PERSONS \$15.00

(Required of all persons Name(s): \_\_\_\_\_  
15 years or older. Prices \_\_\_\_\_  
include admission to Sunday \_\_\_\_\_  
mixer.) \$ \_\_\_\_\_

HOUSING FEES: Campus housing only; price includes breakfast.

Arrival Date: \_\_\_\_\_ Time: \_\_\_\_\_ Mode: \_\_\_\_\_

Departure Date: \_\_\_\_\_ Time: \_\_\_\_\_ (check-out 1:00p.m.)

DAILY MAID SERVICE	# nights	# persons	
Single occupancy: \$20.00/person/night	X _____	X _____	= \$ _____
Double occupancy: \$15.50/person/night	X _____	X _____	= \$ _____
Child (4-11 yrs.): \$10.00/child/night	X _____	X _____	= \$ _____

No charge for children 3 years or under; parent provides porta-crib.

LIMITED MAID SERVICE

Single occupancy: \$14.70/person/night	X _____	X _____	= \$ _____
Double occupancy: \$11.75/person/night	X _____	X _____	= \$ _____
Child (4-11 yrs.): \$ 7.35/child/night	X _____	X _____	= \$ _____

No charge for children 3 years or under; parent provides porta-crib.

MEALS:

Option #1 Lunches Only - Monday through Wednesday      # persons

Adult Plan	\$10.50/person X	_____	=	\$	_____
Child Plan	\$ 5.25/person X	_____	=	\$	_____

Option #2 Lunches & Dinners - Monday through Wednesday      # persons

Adult Plan	\$24.75/person X	_____	=	\$	_____
Child Plan	\$12.38/person X	_____	=	\$	_____

SPECIAL FUNCTIONS:

		# persons			
Tour A - Corning Glass Center	\$ 9.50/person X	_____	=	\$	_____
Tour B - Watkins Glen State Park	\$ 7.00/person X	_____	=	\$	_____
Tour C - Wineries	\$ 7.00/person X	_____	=	\$	_____
Wednesday Night Party	\$15.00/person X	_____	=	\$	_____

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TOTAL CONFERENCE AMOUNT DUE	\$	_____
TOTAL AMOUNT ENCLOSED	\$	_____
BALANCE DUE AT REGISTRATION		_____

Make checks payable in U.S. Funds to American Society for Virology.

Refunds - A \$5.00 handling fee for administrative expenses will be levied on all refund requests.

Please return this form by June 1, 1982 to: American Society for Virology  
Box #3, North Campus Union  
Ithaca, New York 14853

**HELP!!!**

To enable us to plan for the appropriate-size meeting rooms, please indicate what workshops you will most likely attend (see accompanying list):

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BARBECUE PICNIC

Veterinary Virologists, Guests and Families

WHEN: Monday, August 2, 1982, 6:00-9:00p.m.

WHERE: Beautiful Taughannock Falls State Park (North Point Pavilion) on Lake Cayuga. Maps will be available at Conference Registration Desk.

DRESS: Informal - recommend warm jacket (some evenings on the lake are cool).

TRANSPORTATION: Private cars of Cornell faculty, ASV members and picnic participants. Check at the Conference Desk if you need a ride.

MEALS/REFRESHMENTS: Chicken barbecue - Cornell style - served at 7:00p.m., beer and soft drinks included in cost.

COST: \$8.00 per person, checks payable to American Society for Virology by July 19, 1982 and sent to American Society for Virology, Box #3, North Campus Union, Ithaca, NY 14853  
No refunds after July 23, 1982 are possible due to financial commitment to caterer, etc.

SPORTS ACTIVITIES: Swimming (bath house facilities available) and playground facilities available.

WEATHER: Should be ideal in August (we make no guarantees!!) A pavilion is available for use in case of rain.

SPONSOR: Cornell Veterinary College Faculty Picnic Committee

LIMITED TO FIRST 300 PEOPLE!

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BARBECUE PICNIC

NAME: \_\_\_\_\_

If you do not have cafeteria meal plan:

ADULTS: \_\_\_\_\_ X \$8.00 = \$ \_\_\_\_\_  
(# persons)

CHILDREN: \_\_\_\_\_ X \$4.00 = \$ \_\_\_\_\_  
(# persons)

If you do have cafeteria meal plan:

ADULTS: \_\_\_\_\_ X \$3.00 = \$ \_\_\_\_\_  
(# persons)

CHILDREN: \_\_\_\_\_ X \$1.50 = \$ \_\_\_\_\_  
(# persons)

TOTAL AMOUNT ENCLOSED \$ \_\_\_\_\_



# DUKE UNIVERSITY MEDICAL CENTER

*Department of Microbiology  
and Immunology  
Office of the Chairman*

July 9, 1982

Dear Colleague:

I enclose the program for the meeting of the ASV in Ithaca, August 1-5, 1982. There are 4 Symposia and 27 Workshops with one, two, or three sessions each. The Tuesday afternoon session is reserved for the Business Meeting where important decisions concerning the nature and Constitution of our Society will be made.

This program, with room locations, will also be included in the package of material that you will receive when you check in on August 1.

See you in Ithaca. With best wishes,

Cordially,

*Bill Joklik*

W. K. Joklik

WKJ/ek

Enclosure

SYMPOSIUM

GENOME STRUCTURE AND EXPRESSION

Monday, August 2, 1982

8:30 A.M.

CHAIRMAN: Bill Joklik

OPENING REMARKS

NORTON D. ZINDER (Rockefeller University) - What are viruses?

DAVID BALTIMORE (MIT) - The genome of the Abelson murine leukemia virus

JAAP KAPER (USDA, Beltsville) - Cucumber mosaic virus and CARNA 5 (its 335-nucleotide satellite-like RNA): a case of "nested parasites" competing for expression

SYMPOSIUM

TRANSFORMATION AND PERSISTENCE

Tuesday, August 3, 1982

9:00 A.M.

CHAIRMAN: Harold S. Ginsberg

MICHAEL J. BISHOP (University of California, San Francisco) - Oncogenes of avian retroviruses

GEORGE MILLER (Yale) - Five interesting regions in the EBV genome which seem to be involved in lymphocyte immortalization and viral latency

MARK PTASHNE (Harvard) - The structure of the lambda repressor and the mechanism of positive control

SYMPOSIUM

MECHANISMS OF INFECTION

Wednesday, August 4, 1982

9:00 A.M.

CHAIRMAN: Dorothy Horstman

ABNER NOTKINS (NIH) - Virus-induced autoimmunity

BILL ROBINSON (Stanford) - Hepatitis B virus and hepatocellular carcinoma

TOM MONATH (CDC, Atlanta) - Virus-host interactions of some neurotropic arboviruses: perspectives on pathogenesis and microevolution

SYMPOSIUM

EPIDEMIOLOGY AND ECOLOGY

Thursday, August 5, 1982

9:00 A.M.

Chairman: Max Summers

PETER PALESE (NYU) - Variation in influenza viruses

MAX SUMMERS (Texas A & M) - Baculoviruses, genome structure and expression

KARL JOHNSON (USAMRIID, Ft. Detrick) - Zoonotic viruses and man: the many faces of hemorrhagic fever



### Updated Roster of Workshops

The following is an updated roster of Workshops and their Convenors. Prospective workshop participants (10 min papers with 5 min for discussion) should send the Workshop Participation Form to the appropriate Workshop Convenor by May 15. Although no formal abstracts are required, it would help Convenors arrange Workshop programs if brief (50-100 words) summaries of papers to be presented were also submitted.

Please note that three sessions (Monday afternoon, Tuesday evening and Wednesday afternoon) are available for workshops. Workshops may occupy one, two or all three sessions.

<u>Workshop</u>	<u>Convenor</u>
Poxviruses and Iridoviruses	John Holowczak
Herpesviruses	Bernard Roizman
Adenoviruses	Harry Ginsberg
Papovaviruses	Norman Salzman
Parvoviruses	Barry Carter
Plant viruses and viroids	Bob Goodman
Insect viruses	Max Summers
Bacterial viruses	Bob Haselkorn
Mycoviruses	Paul Lemke
Picornaviruses	Roland Rueckert
Togaviruses	Walter Schlesinger
ds RNA viruses	Bill Joklik
Negative-stranded RNA viruses (non-segmented)	Bob Wagner
Negative-stranded RNA viruses (segmented)	Dick Compans
Retroviruses	Peter Vogt
Arenaviruses	Bill Rawls
Coronaviruses	Katherine Holmes
Clinical virology/Immunology	Ken MacIntosh
Diagnostic virology	G. D. Hsiung
Antivirals/Interferon	Tom Merigan
Veterinary virology	Jim Gillespie
Viral Hemorrhagic Fevers	Karl Johnson
Arboviruses	Bob Shope
Arthropod virus vectors	Bill Rochow
Viral membranes	Sondra Schlesinger
Structural virology	Don Caspar
Viral Pathogenesis	Abner Notkins

**The following pages contain the full program,  
as handed out at the meeting, not the abbreviated  
version mailed beforehand.**

PROGRAM

AMERICAN SOCIETY FOR VIROLOGY

INAUGURAL MEETING

CORNELL UNIVERSITY

AUGUST 2-5, 1982

## **Bill Joklik's Opening Remarks at the First Meeting of the American Society for Virology, Cornell University, 2-5 August 1982**

I would like to welcome all of you to the first meeting of the American Society for Virology. This is an exciting and a historic occasion. Openings are always most interesting, and I must say that back when planning the first meeting of a potential American Society for Virology was no more than a glimmer in the eye of some of us, we had no idea that the response from the virology community would be as enthusiastic as it has been. The time that I am referring to was about 1½ to 2 years ago, when some of us realized that the discipline of virology was becoming very fragmented. Virologists love to meet, get together, and communicate and discuss their results as much as any other group of scientists. Indeed, I can think of some subdisciplines of virology, such as the interferon workers, and I do not mean this unkindly, who seem to meet much more frequently than other groups of scientists, or at least they appeared to do so several years ago. And yet we realized that there was no single meeting when all virologists could get together. There were meetings of RNA tumor virologists, and herpesvirologists, and poxvirologists, and virologists working with negative stranded RNA viruses, and others; there were meetings for bacterial virologists and plant virologists; there were meetings of veterinary virologists and meetings of the Infectious Disease Society; but the annual meeting of the one society where the intellectual home of all or most virologists had been since the late 1960s, namely the American Society for Microbiology, no longer attracted more than a smattering of virologists. Yet in other respects the discipline of virology was in excellent shape and becoming stronger all the time. It was at the forefront of molecular biology and is now in the forefront of the new biology that has been rendered accessible by recombinant DNA and hybridoma technologies. The discipline of virology commands an equitable share of the resources provided by NIH, NCI, the ACS, and other funding agencies; and it is well served by journals, for the two premier virology journals in the United States, Virology and the Journal of Virology are flourishing and recognized as peer review journals of the highest quality.

It seemed therefore that the time was ripe to arrange an annual forum at which all virologists, plant virologists, insect virologists, bacterial virologists, vertebrate virologists, mammalian virologists; basic virologists and clinical virologists; could all meet to listen, discuss, and learn. And it seemed that the best way of realizing this goal was to found a society, the American Society for Virology, the

primary aim of which, at least during its initial stages, would be the organizing of an annual meeting for this purpose.

After airing this proposition during the course of numerous informal meetings and discussions, and I will discuss the background of this in some more detail at the business session tomorrow afternoon, a meeting was held in Chicago about 14 months ago at which it was resolved to found an American Society for Virology and to proceed with steps to organize its first annual meeting. A committee was set up on which there were representatives of the major groups or subspecialties of virologists. This committee consisted of Dorothy Horstman representing clinical virologists, Fred Murphy representing veterinary virologists, Harry Ginsberg and myself representing more basic aspects of vertebrate virology, Max Summers representing insect virologists, Bob Haselkorn representing bacterial virologists, and Milt Zaitlin representing plant virologists. We met a couple of times in New York and decided that the first meeting of the American Society for Virology should be held on a college campus. We were sick and tired of meetings in big cities with all distractions and inconveniences that a city like New York or Los Angeles or New Orleans has. Rather, we decided to go for a college campus. I sincerely hope that our judgement will be vindicated by our choice of Cornell as the locale of the first meeting, which was suggested by Milt Zaitlin.

Milt has done an enormous amount of work, and he will have some announcements in a couple of minutes. As for the organization of the scientific program, which I undertook, there were several considerations. It seemed that the program format developed by the International Congresses of Virology was really very successful: there were to be a series of symposia and there were to be a series of workshops. It seemed most desirable to have simply one series of symposia at which we could all meet and in which leaders of various fields described the current state of the art. I was enormously grateful by the response that I had from symposia speakers; almost all scientists whom I asked to give symposium talks agreed to do so and I think that you will agree that we have a superb slate for our four symposia. As for the workshops, the objective was to provide a forum for two purposes. The first was to provide a forum for what I refer to as the specialty groups or subdisciplines, namely the herpesvirologists, the poxvirologists, the retrovirologists, and so on, who generally meet in various locations around the country, at different times; the purpose was to provide a forum for them so that they could share in each other's discussions. The second was to provide a forum for discussions that slice through virology along a different cross-section; that is, to include workshops on topics such

as viral membranes, structural virology, viral diagnostics, viral hemorrhagic fevers, and the like. Each of these workshops was to be organized by a convenor, a scientist well known in the field who would group the papers as they were submitted according to interest affinities as he or she saw fit. In asking scientists to act as convenors I was even more successful: not a single scientist whom I asked to act as convenor of a workshop turned me down.

This then is a brief background to this meeting. The response has exceeded our most sanguine expectations; about 1,000 scientists have registered, and there are more than 550 papers. In numerous workshops there are three sessions with a maximum number of papers in each, which means that in future years we will have to hold concurrent sessions or poster sessions, or whatever. Not bad for the first meeting of our fledgling new Society.

Now I would like to call on Milt Zaitlin, our host, who has been responsible for organizing this meeting at the local level. Milt...



PROGRAM  
AMERICAN SOCIETY FOR VIROLOGY  
CORNELL UNIVERSITY, AUG. 2-5, 1982

Please check the board in the lobby of the North Campus Union for program changes and announcements.

Speakers: Please get your slides to the projectionist before the start of your session. Anyone wishing to preview his slides may do so in the "Board Room" on the second floor of the North Campus Union between the hours of 8 and 10 PM on Sunday, August 1. Material for overhead projector transparencies will also be available.

Mixer: On Sunday, August 1 from 6-11 PM your badge is your admission to the mixer in the Second Floor Lounge of the North Campus Union, featuring complimentary munchies and a cash bar.

SYMPOSIA (All held in Statler Auditorium):

Genome Structure and Expression	Monday	8:30 AM
Transformation and Persistence	Tuesday	9:00 AM
Mechanisms of Infection	Wednesday	9:00 AM
Epidemiology and Ecology	Thursday	9:00 AM

BUSINESS MEETING (Statler Auditorium)      Tuesday      2:00 PM

WORKSHOPS:

<u>Number</u>	<u>Session</u>	<u>Title</u>	<u>Day</u>	<u>Place</u>
• 1	A	Adenoviruses	*Tues.	Ives 117
•	B	Adenoviruses	Wed.	Ives 117
• 2	A	Interferon	Mon.	James Law Auditorium
•	B	Interferon	*Tues.	James Law Auditorium
•	C	Antivirals	Wed.	James Law Auditorium
• 3		Arboviruses	Mon.	Emerson 135
• 4		Arthropod Virus Vectors	Wed.	Vet. D-215
• 5		Bacterial Viruses	*Tues.	Ives 217
• 6	A	Coronavirus (Replication I)	Mon.	Martha Van N207
•	B	Coronavirus (Replication II)	*Tues.	Martha Van N207
•	C	Coronavirus (Pathogenesis)	Wed.	Martha Van N207
• 7	A	Diagnostic Virology	Mon.	Vet. C-207
•	B	Diagnostic Virology	*Tues.	Vet. C-207
•	C	Diagnostic Virology	Wed.	Vet. C-207
• 8	A	dsRNA Viruses	Mon.	Ives 217
•	B	dsRNA Viruses	Wed.	Ives 217
• 9	A	Epidemiology/Clinical Virology	Mon.	Vet. D-105
•	B	Vaccines	*Tues.	Vet. D-105
•	C	Immunology	Wed.	Vet. D-105
•10		Hepatitis	Wed.	Vet. G-131
•11	A	Herpesviruses	Mon.	Statler Auditorium
•	B	Herpesviruses	*Tues.	Statler Auditorium
•	C	Herpesviruses	Wed.	Statler Auditorium
•12	A	Insect Viruses (Baculoviruses)	Mon.	BTI Auditorium
•	B	Insect Viruses (INvertebrate RNA Viruses)	*Tues.	BTI Auditorium
•	C	Insect Viruses	Wed.	BTI Auditorium

<u>Number</u>	<u>Session</u>	<u>Title</u>	<u>Day</u>	<u>Place</u>
·13	A	Negative-Strand RNA Viruses, Nonsegmented	Mon.	Ives 110
·	B	Negative-Strand RNA Viruses, Nonsegmented	* Tues.	Ives 110
·	C	Negative-Strand RNA Viruses, Nonsegmented	Wed.	Ives 110
·14	A	Negative Stranded RNA Viruses, Segmented (Influenza Virus)	* Tues.	Emerson 135
·	B	Negative Stranded RNA Viruses, Segmented (Bunyaviruses and Arenaviruses)	Wed.	Emerson 135
·15		Papovaviruses	Wed.	Martha Van Auditorium
·16	A	Parvoviruses	Mon.	Vet G-131
·	B	Parvoviruses	* Tues.	Vet G-131
·17	A	Picornaviruses	Mon.	Ives 215
·	B	Picornaviruses	Wed.	Ives 215
·18	A	Plant Viruses and Viroids (Diseases and Relationships)	Mon.	Bradfield 101
·	B	Plant Viruses and Viroids (Replication)	* Tues.	Bradfield 101
·	C	Plant Viruses and Viroids (Structure)	Wed.	Bradfield 101
·19		Poxviruses and Iridoviruses	Wed.	Martha Van Amphitheater
·20	A	Retroviruses (Genetic Aspects)	Mon.	Plant Science 233
·	B	Retroviruses (Transcription and Transformation-Specific Proteins)	* Tues.	Plant Science 233
·	C	Retroviruses (Biology & Structure)	Wed.	Plant Science 233
·21		Structural Virology	* Tues.	Ives 215
·22	A	Togaviruses (Alphavirus Genome Structure and Replication)	Mon.	Martha Van Auditorium
·	B	Togaviruses (Viral Proteins, Antigens, and Virus-Host Interactions)	* Tues.	Martha Van Auditorium
·23	A	Veterinary Virology	Mon.	G-3 Vet Research Tower
	B	Veterinary Virology	Wed.	G-3 Vet Research Tower
·24		Viral Hemorrhagic Fevers	Tues.	G-3 Vet Research Tower
·25		Viral Membranes	Mon.	Ives 117
·26	A	Viral Pathogenesis (Models and Mechanisms of Pathogenesis)	Mon.	Vet C-109
·	B	Viral Pathogenesis (Viral Receptors - Oncogenesis)	* Tues.	Vet C-109
·	C	Viral Pathogenesis (Virus- Leukocyte Interactions)	Wed.	Vet C-109
·27	A	Unconventional Viruses (Epidemiology, Pathogenesis and Immunology)	Mon.	Vet D-215
·	B	Unconventional Viruses (Nature of Unconventional Viruses)	* Tues	Vet D-215

\* Evening session, starting 7:30 PM. All other workshops start at 2:00 PM.

SYMPOSIUM

GENOME STRUCTURE AND EXPRESSION

Monday, August 2, 1982

8:30 A.M.

CHAIRMAN: Bill Joklik

OPENING REMARKS

NORTON D. ZINDER (Rockefeller University) - What are viruses?

COFFEE BREAK

DAVID BALTIMORE (MIT) - The genome of the Abelson murine leukemia virus

JAAP KAPER (USDA, Beltsville) - Cucumber mosaic virus and CARNA 5 (its 335-nucleotide satellite-like RNA): a case of "nested parasites" competing for expression

SYMPOSIUM

TRANSFORMATION AND PERSISTENCE

Tuesday, August 3, 1982

9:00 A.M.

CHAIRMAN: Harold S. Ginsberg

MICHAEL J. BISHOP (University of California, San Francisco) - Oncogenes of avian retroviruses

GEORGE MILLER (Yale) - Five interesting regions in the EBV genome which seem to be involved in lymphocyte immortalization and viral latency

COFFEE BREAK

MARK PTASHNE (Harvard) - The structure of the lambda repressor and the mechanism of positive control

SYMPOSIUM

MECHANISMS OF INFECTION

Wednesday, August 4, 1982

9:00 A.M.

CHAIRMAN: Dorothy Horstman

ABNER NOTKINS (NIH) - Virus-induced autoimmunity

BILL ROBINSON (Stanford) - Hepatitis B virus and hepatocellular carcinoma

COFFEE BREAK

TOM MONATH (CDC, Atlanta) - Virus-host interactions of some neurotropic  
arboviruses: perspectives on pathogenesis and microevolution

SYMPOSIUM

EPIDEMIOLOGY AND ECOLOGY

Thursday, August 5, 1982

9:00 A.M.

CHAIRMAN: Max Summers

PETER PALESE (NYU) - Variation in influenza viruses

MAX SUMMERS (Texas A & M) - Baculoviruses, genome structure and expression

COFFEE BREAK

KARL JOHNSON (USAMRIID, Ft. Detrick) - Zoonotic viruses and man: the many  
faces of hemorrhagic fever

## ADENOVIRUSES

## SESSION A

Tuesday, August 3, 1982  
7:30 P.M.

CHAIRMAN: Harry Ginsberg

Activation of viral and cellular genes by the adenovirus E1A gene product. J. NEVINS\*, L. FELDMAN and M. IMPERIALE. Rockefeller University.

Human adenoviral early regions 2A and 2B: Organization, expression and regulation. T. R. BROKER\*, J. A. ENGLER, M. ROSSINI, R. A. GUILFOYLE, M. P. van BREE, M. HOPPE and L. I. CHOW. Cold Spring Harbor.

Coexpression of adenovirus E1A and E1B gene products and the E. coli XGPY gene in KB cells. L. BABIS, C.S.H. YOUNG, P. FISHER and H. S. GINSBERG. Columbia University.

DNA methylation and gene activity: In vitro studies, promoter methylation, and shifts in DNA methylation. W. DOERFLER, L. VARDIMON, I. KRUCZEK, D. EICK and I. KUHLMANN. University of Cologne.

Isolation and characterization of proteins involved in the replication of adenoviral-DNA protein complex. K. NAGATA, J. LICHY, R. GUGGENHEIMER, J. FIELD and J. HURWITZ. Albert Einstein College of Medicine.

The domain of the adenovirus coded DNA binding protein which is active in DNA elongation in vitro. M. KREVOLIN\*, B. FRIEFELD, R. KORN, G. LEON and M. HORWITZ. Albert Einstein College of Medicine.

Initiation of adenovirus DNA replication: Is there serotype specificity? D. REKOSH\*, J. MCDONOUGH and S. PINCUS. SUNY, Buffalo.

Alternative pathways in adenovirus recombination. F. C. VOLKERT, P. MUNZ and C.S.H. YOUNG. Columbia University.

Precise mapping of adenovirus 2 proteins. C. W. ANDERSON, E. OOSTROM-DRAGON, J. B. LEWIS, P. SARNOV and A. J. LEVINE. Brookhaven National Laboratories.

Delimiting the recognition site for polar encapsidation of adenovirus DNA. C. TIBBETTS\*, L. KOSTURKO, C. ROBINSON and S. SHARNICK. Vanderbilt University.

## ADENOVIRUSES

## SESSION B

Wednesday, August 4, 1982  
2:00 P.M.

CHAIRMAN: Tom Broker

Restriction of Ad2 replication in CHO. R. L. RADNA\*, L. A. FELDMAN and H. L. OZER. Hunter College, CUNY.

Characterization of the defect in enteric adenovirus replication in non-permissive cells. M. BROWN\*, M. PETRIC and P. J. MIDDLETON. Hospital for Sick Children, Toronto.

Characterization of the adenovirus-associated protein kinase activity. J. TSUZUKI and R. LUFTIG\*. University of South Carolina.

The relation of the sensitivity of syngenic adenovirus-transformed cells to cell-mediated killing in vitro and their tumorigenic potential in vivo. K. RASKA, JR.\* and P. H. GALLIMORE. Rutgers University.

Resistance of transformed cells to naturally cytolytic lymphoid cells; A possible explanation for the increased oncogenicity of adenovirus 12 compared to adenovirus 2 in hamsters. J. L. COOK\*, J. B. HIBBS, JR. and A. M. LEWIS, JR. Medical National Jewish Hospital, Denver.

Studies on the arginine-requiring function of adenovirus. S. C. BROWN\* and H. ROUSE. Rutgers University.

Replication of turkey hemorrhagic enteritis virus (HEV) in lymphoblastoid cell lines. K. NAZERIAN\* and A. FADLY. Regional Poultry Research Laboratories, East Lansing.



## ANTIVIRALS/INTERFERON

## SESSION A

## (Interferon)

Monday, August 2, 1982  
2:00 P.M.

CHAIRMAN: Tom Merigan

Interaction of interferon with cellular receptors: Internalization and degradation of cell-bound interferon. C. BAGLIONI\*, A. A. BRANCA, C. R. FALTYNEK and S. B. D'ALESSANDRO. SUNY, Albany.

Stimulation of 2-5A synthetase induction by virus infection. D. K. WEST, J. NIMOCK and L. A. BALL\*. University of Wisconsin.

Control of vaccinia virus thymidine kinase expression by interferon. D. K. WEST, D. E. HRUBY and L. A. BALL\*. University of Wisconsin.

An effect of interferon on initiation and elongation of vaccinia DNA synthesis. M. ESTEBAN\*. SUNY Downstate Medical Center.

Synthesis of (2'-5') oligo (A) and activation of an endonuclease in interferon-treated HeLa cells infected with reovirus. T. W. NILSEN\*, P. A. MARONEY and C. BAGLIONI. SUNY, Albany.

Studies concerning the molecular basis of the inhibition of VSV replication by recombinant IFN-alpha A in human amnion cells. P. S. MASTERS and C. E. SAMUEL\*. University of California, Santa Barbara.

Effects of Beta interferon on size and concanavalin binding of human cells. L. M. PFEFFER\* and I. TAMM. Rockefeller University.

Novel human alpha and beta interferon mRNA species. P. B. SEHGAL\*. Rockefeller University.

IFN-gamma synergistically enhances the antiviral and anticellular activity of IFN-alpha and IFN-beta in mouse and human systems. W. R. FLEISCHMANN, JR.\*, L. A. SCHWARZ and C. M. FLEISCHMANN. University of Texas, Galveston.

Interferon receptors and nuclear responses resulting in antiviral protection. I. GORDON and D. STEVENSON. University of Southern California Medical School.

ANTIVIRALS/INTERFERON

SESSION B

(Interferon)

Tuesday, August 3, 1982  
7:30 P.M.

CHAIRMAN: Irving Gordon

A monoclonal antibody recognizes cell-bound, human recombinant interferon at a carboxyl-terminal epitope. H. ARNEHITER\*, B. GUTTE, M. SMITH and K. ZOON. NIH.

On the nature of interferon induction by Newcastle Disease Virus. P. I. MARCUS, C. SVITLIK\* and M. J. SEKELLICK. University of Connecticut, Storrs.

The relationship between interferon production by the mengovirus mutant is-1 and its interferon-sensitive phenotype. E. SIMON and N. ISONO. Purdue University.

Interferon induction by viruses: Characterization of an interferon-inducing mutant of mengovirus. P. T. GUIDON, JR.\*, M. J. SEKELLICK and P. I. MARCUS. University of Connecticut, Storrs.

Selectivity of interferon action in simian virus 40-transformed cells superinfected with simian virus 40. M. A. GARCIA-BLANCO, B. M. JAYARAM and P. LENGYEL. Yale University School of Medicine.

Interferon induces a specific protein in cells bearing the gene for myxovirus resistance in mice. M. A. HORISBERGER, P. STAEHELI and O. HALLER. Institute of Immunology and Virology, Zurich, and Rockefeller University.

Host-induced factors in HSV-1 virulence. A. HUBBARD and Y. M. CENTIFANTO. Louisiana State University.

The ontogeny of the murine macrophage cytotoxic response to tumor cells. D. K. KELSEY\*, D. E. SWANSON and L. A. GLASGOW. University of Utah.

Further characterization of interferon produced in guinea pig cell culture. T. R. WINSHIP\*, C.K.Y. FONG and G. D. HSIUNG. VA Medical Center, West Haven, Connecticut.

Characterization of interferon in patients with autoimmune diseases. O. T. PREBLE\* and R. FRIEDMAN. Uniformed Services University, Bethesda.

Selective defect for immune interferon (IFN-Gamma) in asymptomatic carriers of hepatitis B virus. S. YOUSEFI-DAMAVANDI and M. R. ESCOBAR\*. Medical College of Virginia.

## ANTIVIRALS/INTERFERON

## SESSION C

## (Antivirals)

Wednesday, August 4, 1982  
2:00 P.M.

CHAIRMAN: Herb Kaufman

Antiviral chemotherapy. H. E. KAUFMAN\*. Louisanna State University.

Effect of acyclovir on cytomegalovirus infection in guinea pigs. B. P. GRIFFITH\*, H. L. LUCIA and G. D. HSIUNG. Yale University School of Medicine.

Effective treatment of primary and recurrent genital herpes in guinea pigs with oral acyclovir. E. R. KERN\*, J. T. RICHARDS, L. R. STANBERRY, M. E. KATZ and J. C. OVERALL, JR. University of Utah.

Therapy of mice infected intracerebrally with herpes simplex virus type 2 with the 2'-fluoroarabinosides, FIAC and FMAU, alone and in combination with acyclovir and vidarabine. R. F. SCHINAZI\*, J. PETERS and A. NAHMIAS. Emory University.

Drugs that inhibit the entry step of influenza virus. A. M. HAYWOOD\*, R. L. SIMONS, and R. G. DOUGLAS, JR. University of Rochester Medical Center.

Mode of action studies on beta-diketones, a new class of antiviral drugs. J. J. McSHARRY\*. Albany Medical College.

Inhibition of herpes simplex virus-induced ribonucleotide reductase by Ara-ATP. W. M. SHANNON\*, R. W. BROCKMAN, G. ARNETT and S. C. SHADDIX. Kettering-Meyer Laboratory, Southern Research Unit, Birmingham, AL.

## ARBOVIRUSES

Monday, August 2, 1982  
2:00 P.M.

CHAIRMAN: Bob Shope

Oligonucleotide markers of dengue virus vaccine strains. P. REPIK, K. H. ECKELS and J. M. DALRYMPLE. USAMRIID, Fort Detrick.

Markers of subtype I enzootic Venezuelan encephalitis virus strains. D. R. STANICK, M. E. WIEBE and W. F. SCHERER. Cornell University Medical College.

Monoclonal antibodies against LaCrosse and Tahyna bunyaviruses. F. GONZALEZ, R. E. SHOPE, C. CALISHER and N. NATHANSON. University of Pennsylvania; Yale Arbovirus Research Unit; and Vector-borne Diseases Laboratory, CDC, Fort Collins.

Monoclonal antibodies to Rift Valley fever virus: Characterization and use to distinguish epidemiologically and pathologically distinct virus strains. J. M. MEEGAN, C. J. PETERS and M. D. PARKER. Yale Arbovirus Research Unit and USAMRIID, Fort Detrick.

Bunyavirus persistence at arctic latitudes. D. M. McLEAN\*. University of British Columbia.

Antigenic relationship and ecology of six new vesiculoviruses. R. B. TESH, A. P. A. TRAVASSOS DA ROSA and J. F. S. TRAVASSOS DA ROSA. Yale Arbovirus Research Unit and Instituto Evandro Chagas, Belem, Brazil.

Bluetongue virus infection in a multispecies sentinel herd of domestic and wild ruminants. J. L. STOTT\*, R. B. BUSHELL, E. C. LOOMIS, D. JESSUP and B. I. OSBURN. University of California, Davis.

To be announced. K. M. JOHNSON. USAMRIID, Fort Detrick.

## ARTHROPOD VIRUS VECTORS

Wednesday, August 4, 1982  
2:00 P.M.

CHAIRMAN: Bill Rochow

Colorado tick fever virus: Demonstration of genetic reassortment in the tick Dermacentor andersoni. B. R. MILLER\*, E. MCCANCE, and D. L. KNUDSON. University of Illinois.

Interference between Bunyaviruses in mosquitoes. B. J. BEATY\*, F. FULLER and D.H.L. BISHOP. Yale University.

Molecular biology of wound tumor virus transmission: The product of genome segment 5 and loss of transmissibility. D. L. NUSS\*. N.Y. State Department of Health, Albany.

Detection of two luteoviruses in aphid vectors by ELISA. C. J. D'ARCY\* and A. D. HEWINGS. University of Illinois.

Ultrastructural comparison of barley yellow dwarf virus transport through salivary glands of Rhopalosiphum padi and Sitobion avenae and the relationship to vector-specificity. F. E. GILDOW\*. University of California.

Dependent transmission of luteoviruses by aphids: Role of vector. W. F. ROCHOW\*. Cornell University.

Serological difference in helper component from potato virus Y and tobacco vein-mottling virus-infected plants. D. W. THORNBURY\* and T. P. PIRONE. University of Kentucky.



## BACTERIAL VIRUSES

Tuesday, August 3, 1982  
7:30 P.M.

CHAIRMAN: Bob Haselkorn

A newly detected class of T4 late transcripts: Are mutually interacting transcription events important for late RNA synthesis? T. ELLIOTT, G. KASSAVETIS and E. P. GEIDUSCHEK\*. University of California, San Diego.

Function of hybrid middle SP01 promoters in vitro. J. ROMEO and E. P. GEIDUSCHEK\*. University of California, San Diego.

A role for DNA topoisomerases in regulation of expression of T5 genes. D. J. MCCORQUODALE\* and A. CONSTANTINOU. Medical College of Ohio.

Replication of bacteriophage 29 DNA. J. ITO\*, K. WATABE, M.-F. SHIH and T. P. WEST. University of Arizona.

Cloning the gene of a bacteriophage sigma factor. M. COSTANZO\* and J. PERO. Harvard University.

Promoters controlled by novel sigma factors. N. HANNETT, M. COSTANZO\*, J. JOLLY, G. LEE and J. PERO. Harvard University.

Activator-like sites on bacterial virus DNAs. W. CHAMPNESS, M. A. JABBAR and L. SNYDER\*. Michigan State University.

Conditionally replicating plasmid vectors that can integrate into the host chromosome by phage P4 site-specific recombination. D. OW\* and F. AUSUBEL. Harvard University.

Biochemical analysis of bacteriophages Mu and D108 DNA transposition. G. SZATMARI, J. HAREL, R. HERBERT, P. TOLIAS, D. LEVIN and M. DUBOW\*. McGill University.

Effects of proflavine and metabolic inhibitors on DNA packaging by bacteriophage T7. P. SERWER\*, R. H. WATSON, J. L. ALLEN and S. J. HAYES. University of Texas Health Science Center, San Antonio.

Lack of recombination function in *S. typhimurium* cultured anaerobically demonstrated by its contribution to phage replication. M. L. DROFFNER\* N. YAMAMOTO. Hahnemann University.

Φ6 RNA ends and reverse transcription. H. REVEL\*, L. GHIBELLI, M. SZEKERES, BROWNSTEIN and R. HASELKORN. University of Chicago.

Visualization of M13 penetration. J. D. GRIFFITH\*. University of North Carolina, Chapel Hill.

## CORONAVIRUSES

## SESSION A

(Coronavirus Replication I)

Monday, August 2, 1982  
2:00 P.M.

CHAIRMAN: Mike Lai

Comparison of murine and human coronavirus RNAs by molecular hybridization. S. R. WEISS\*. University of Pennsylvania.

Mechanism of RNA synthesis of mouse hepatitis virus: Characterization of negative-stranded RNA and leader RNA sequences. M.M.C. LAI\*, P. R. BRAYTON and S. A. STOHLMAN. University of Southern California School of Medicine.

Characterization of MHV RNA. J. LIEBOWITZ\*. University of California, San Diego.

Comparative analysis of RNA and polypeptide constituents of avian coronaviruses. M. E. OWENS\*, L. MCGINTY and R. W. SIMPSON. Rutgers University.

Oligonucleotide and polypeptide comparisons between human respiratory coronavirus OC43 and bovine coronavirus (Mebus strain). W. LAPPS, B. HOGUE and D. BRIAN\*. University of Tennessee.

Studies on enteric coronaviruses. R. D. WOODS\*. National Animal Disease Center, Ames, Iowa.

NK cell activity in MHV infection. S. STOHLMAN\*, R. BRAYTON and R. HARMON. University of Southern California School of Medicine.

## CORONAVIRUSES

## SESSION B

(Coronavirus Replication II)

Tuesday, August 3, 1982  
7:30 P.M.

CHAIRMAN: Lawrence Sturman

Biosynthesis of glycoprotein E1 of coronaviruses. H. NIEMANN\* and H.-D. KLENK.  
Institute for Virology, Giessen.

Maturation of coronavirus virions. M. FRANA\*, J. N. BEHNKE, S. ROBBINS and K.  
V. HOLMES. Uniformed Services University, Bethesda.

Coronavirus induced cell fusion: Activation by proteolytic cleavage of E2. L.  
S. STURMAN\* and K. V. HOLMES. N. Y. State Department of Health, Albany, and  
Uniformed Services University, Bethesda.

Replication of Avian infectious bronchitis virus in African green monkey kidney  
(Vero) cells. F. V. ALONSO\*, G. E. WILCOX and R. W. COMPANS. University of  
Alabama Medical Center.

Murine cells persistently infected with MHV-JHM: Endogenous protein synthesis.  
C. BOND\*. Montana State University.

Monoclonal antibodies to mouse hepatitis virus 4 (JHM strain) cross react with  
human coronavirus (OC43 strain). A. R. COLLINS\*N and M. J. BUCHMEIER.  
SUNY, Buffalo and Scripps Clinic and Research Foundation.

## CORONAVIRUSES

## SESSION C

(Coronavirus Pathogenesis)

Wednesday, August 4, 1982  
2:00 P.M.

CHAIRMAN: Kathryn Holmes

Mapping of a recessive mouse gene for resistance of SJL macrophages to MHV (A59) infection. M. S. SMITH\*, R. E. CLICK and P.G.W. PLAGEMANN. University of Minnesota.

Pathogenesis of mouse hepatitis virus (Strain S) in weanling mice. A. L. SMITH\* and S. W. BARTHOLD. Yale University.

Pathogenesis of MHV (A50) infection in C3H mice. J. WOYCIECHOWSKA\*, D. H. PATRICK and K. V. HOLMES. Uniformed Services University, Bethesda.

Microcirculatory abnormalities in the liver in MHV infection (a film). G. LEVY\*, A. RAPPAPORT and M. M. FISHER. University of Toronto.

An in vivo model of demyelinating disease: Regulation of JHM virus infection in rats. O. SORENSON\*, M. B. COULTER-MACKIE, S. PUCHALSKI, D. H. PERCY and S. DALES. University of Western Ontario.

Cellular tropism, persistent and recurrent demyelination induced by MHV-4. R. L. KNOBLER\*, P. W. LAMPERT and M.B.A. OLDSTONE. Scripps Clinic and Research Foundation.

Probing the molecular events in MHV-4 infection with monoclonal antibodies. P. J. TALBOT\*, M. J. BUCHMEIER and M.B.A. OLDSTONE. Scripps Clinic and Research Foundation.

Alteration of MHV induced disease by monoclonal antibody. M. J. BUCHMEIER\* and R. L. KNOBLER. Scripps Clinic and Research Foundation.

## DIAGNOSTIC VIROLOGY

## SESSION A

Monday, August 2, 1982

2:00 P.M.

CHAIRMAN: G. D. Hsiung

Cell culture and serological methods for the diagnosis and surveillance of virus infections. Y. W. WONG, N. S. SWACK\* and D. C. DORSEY. University of Iowa.

Clinical virology in a private hospital setting. M. J. AUGUST\*. Cedars-Sinai Medical Center, Los Angeles.

Virus isolation methodology at the Diagnostic Virology Laboratory, Medical Center Hospital, San Antonio, TX, 1981. C. V. SUMAYA\*, L. JOHNSON and K. STELLATO. University of Texas Health Science Center, San Antonio.

Virus activities in Rochester, NY. M. A. MENEGUS\*. University of Rochester School of Medicine.

Enterovirus associated viremia. S. A. PRATHER\*, J. A. JENISTA and M. A. MENEGUS. University of Rochester School of Medicine.

Establishment of a new human embryonic diploid lung strain for use in diagnostic virology. H. E. RAJOTTE\*, A. O'BEIRNE and D. FUCILLO. M. A. Bioproducts, Walkersville, MD.

Comparative differentiation of herpes simplex virus type 1 and 2 strains by biological, biochemical, immunological and immunochemical techniques. Z. M. ZHENG\*, D. R. MAYO and G. D. HSIUNG. Yale University School of Medicine.

Typing of herpes simplex isolates using monoclonal antibodies. G. FRAME\*, J. MAHONY, N. BALACHANDRAN, W. RAWLS and M. CHERNESKY. St. Joseph's Hospital, Hamilton, Ontario.

Typing of herpes simplex virus strains with monoclonal antibodies. S. JEANSSON\* and E. NILHEDEN. University of Goteborg, Sweden.



## DIAGNOSTIC VIROLOGY

## SESSION B

Tuesday, August 3, 1982  
7:30 P.M.

CHAIRMAN: Max Chernesky

Rapid viral diagnosis of stool specimens by electron microscopy. R.  
DOURMASHKIN\* and D. BUCHER. Mt. Sinai School of Medicine, New York.

The use of electron microscopy in the diagnosis of viral enteritis. M. R.  
TALTY\*, H. BARRETT and P. L. OGRA. Children's Hospital, Buffalo.

Diagnosis of rotavirus by dot hybridization. J. FLORES\*, M. SERENO, E.  
BOEGGEMAN, R. PURCELL and A. KAPIKIAN. NIAID, NIH.

Biotin-labelled polynucleotide probes for the in situ detection of adenovirus  
and herpesvirus in paraffin embedded tissues. D. J. BRIGATI, D. C. WARD, D.  
MYERSON, C.K.Y. FONG\*, S. TRAVIS and G. D. HSIUNG. VA Medical Center and  
Yale University School of Medicine.

Nucleic acid spot hybridization for rapid detection of EB virus DNA in tissue  
samples. W. A. ANDIMAN\*, M. E. SAVAGE, L. HESTON and G. MILLER. Yale  
University School of Medicine.

Diagnosis of Epstein-Barr virus infections. R. W. VELTRI\* and J. E. MCCLUNG.  
Biological Corporation of America, West Chester, PA.

Use of immunoperoxidase to detect herpes simplex virus in cell culture. B. L.  
KIEHL\*, J. L. GAWILSON and G. S. KLEDZIK. Immunolok, Inc., Carpinteria, LA.

Sensitive enzyme-immunoassay using B-D-galactosidase for detection of influenza  
type A antigen in clinical specimens. M. W. HARMON\*, L. RUSSO, S. Z.  
WILSON, V. KNIGHT and R. B. COUCH. Baylor College of Medicine.

## DIAGNOSTIC VIROLOGY

## SESSION C

Wednesday, August 4, 1982  
2:00 P.M.

CHAIRMAN: John L. Sever

Improved Epstein-Barr virus IgM antibody test utilizing Staphylococcus aureus absorption. C. SUMAYA\*, Y. ENCH and R. M. POPE. University of Texas Health Science Center, San Antonio.

Rapid diagnosis of human herpesvirus infections by immunofluorescence. F. J. MICHALSKI\* and J. CHEN. St. Michael's Medical Center, Newark, NJ.

A method for coupling cytomegalovirus antigen(s) to aldehyde-fixed erythrocytes for use in passive (indirect) hemagglutination. H. IKRAM\* and A. M. PRINCE. The New York Blood Center.

Rubella IgM and IgG following rubella vaccination measured by enzyme-linked immunosorbent assay (ELISA). M. K. TINKER\*, P. A. MIED and D. A. FUCCILLO. M. A. Bioproducts, Walkersville, MD.

Evaluation of the sensitivity and specificity of a commercially available ELISA kit for the detection of Rubella specific IgM. M. CHERNESKY, L. WYMAN\*, J. MAHONEY, S. CASTRICIANO, J. UNGER and J. SAFFORD. St. Joseph's Hospital, Hamilton, Ontario and Abbott Laboratory, North Chicago.

Immunodiagnosis of Rubella virus infections. R. DIEBEL\*. New York State Department of Health, Albany.

Enzyme-linked immunosorbent assay for detection of measles antibody. B. BOTELER\*, P. LUIPERSBECK, D. FUCILLO and A. O'BIERNE. M. A. Bioproducts, Walkersville, MD.

Automation in diagnostic virology: Parameters and logistical approach. M. R. ESCOBAR\*. Medical College of Virginia.

## ds RNA VIRUSES

## SESSION A

Monday, August 2, 1982  
2:00 P.M.

CHAIRMAN: Bill Joklik

Characterization of the changuinola virus serogroup (reoviridae: orbivirus).

R. B. TESH\*, A.P.A. TRAVASSOS da ROSA, J.F.S. TRAVASSOS da ROSA, P. H. PERALTA and D. L. KNUDSON. Yale University School of Medicine.

Studies on an In Vitro assay for murine rotavirus. R. W. SIDWELL\*, K. ZAHEDI and B. B. BARNETT. Utah State University.

Studies of human rotavirus from North and South America. D. H. DIMITROV\*, D. Y. GRAHAM, H. H. HANSEN, A. STENBECK and M. K. ESTES. Baylor College of Medicine.

Genetic reassortment of two strains of Colorado Tick Fever virus In Vitro. E. F. MCCANCE\* and D. L. KNUDSON. Yale University School of Medicine.

Proteins modified by adenylation undergo specific proteolysis in reovirus-infected cells. C. A. CARTER\*, R. O. POZZATTI, B. Y. LIN, M. MORA and E. NAKANO. SUNY, Stony Brook.

Identification of the guanylyltransferase protein in reovirus. D. R. CLEVELAND, H. ZARBL\* and S. MILLWARD. McGill University.

Molecular weight estimation of orgyia pseudotsugata cytoplasmic polyhedrosis virus genomic RNA. M. S. GALINSKI\*, K.-C. CHOW, G. F. ROHRMANN, G. D. PEARSON and G. S. BEAUDREAU. Oregon State University.

## ds RNA VIRUSES

## SESSION B

Wednesday, August 4, 1982  
2:00 P.M.

CHAIRMAN: Polly Roy

The Genetic Basis for the Generation of Defective Interference in Reovirus. E. G. BROWN\*, M. L. NIBERT and B. N. FIELDS. Harvard Medical School.

Quantitation of the relatedness of reovirus serotypes 1, 2 and 3 at the gene level. R. K. GAILLARD\* and W. K. JOKLIK. Duke University Medical Center.

Biochemical Basis of the Differential Efficiency of the Translation of Reovirus mRNAs. N. G. MIYAMOTO\* and C. E. SAMUEL. University of California, Santa Barbara.

The 5'- and 3'-Terminal Sequences of the Ten Genes of Reovirus. J. B. ANTCZAK\*, R. CHMELO, D. J. PICKUP and W. K. JOKLIK\*. Duke University Medical Center.

Terminal Sequence Analyses of Bluetongue Virus Genome. P. ROY\*, D. RAO and A. KIUCHI. University of Alabama, Birmingham.

Identification of the Coding Assignments of the ds RNA Segments of Bluetongue Virus by In Vitro Translation. J. APPLETON, M. J. GRUBMAN\* and G. J. LETCHWORTH. Plum Island Animal Disease Center.

Cloning reovirus genes. L. W. CASHDOLLAR\*, G. R. HUDSON, R. CHMELO, P. W. K. LEE and W. K. JOKLIK. Duke University Medical Center.

Rotavirus Hemagglutinin. M. PETRIC\*, G. TOTH, L. SPENCE and P. J. MIDDLETON. Hospital for Sick Children, Toronto.

Identification of the Rotaviral Gene that Codes for Humagglutination and Trypsin Enhanced Infectivity. A. R. KALICA\* and H. B. GREENBERG. NIAID, NIH.

## EPIDEMIOLOGY/CLINICAL VIROLOGY

## SESSION A

Monday, August 2, 1982  
2:00 P.M.

CHAIRMAN: Ken McIntosh

Risk of hospitalization with acute respiratory disease for children during epidemics caused by RS, parainfluenza and influenza viruses. W. P. GLEZEN\* and D. PERROTTA. Baylor College of Medicine.

Influenza infection in the community. Patterns of occurrence and pathogenicity. A. S. MONTO\*, J. S. KOOPMAN and H. F. MAASSAB. University of Michigan.

Incidence of coxsackievirus B type 4 infections concomitant with onset of insulin-dependent Diabetes mellitus (IDDM). R. R. MIRKOVIC\*, S. K. VARMA and J. W. YOON. Texas Tech.

Independent effects of heredity of Diabetes mellitus and disease on immunity to Coxsackievirus B4. R. M. LORIA\*, L. B. MONTGOMERY. Medical College of Virginia.

Analysis of echovirus isolated from children with X-linked agammaglobulinemia using radioimmunoprecipitation techniques. S. N. LEHRMAN\*. Duke University Medical Center.

Natural history of persistent CNS enterovirus infections in agammaglobulinemia: implications for the pathogenesis of enterovirus diseases. C. M. WILFERT\*, S. N. LEHRMAN, J. ZELLER and R. BUCKLEY. Duke University Medical Center.

Use of an antiviral drug to image herpes simplex virus-infected brain, an autoradiographic study of encephalitis in the rat. Y. SAITO, R. W. PRICE\*, D. A. ROTTENBERG, J. FOX, T. L. SU, K. A. WATANABE and F. S. PHILIPS. Memorial Sloan-Kettering Cancer Center.

Measurement of 2-5A synthetase levels in patients receiving interferon therapy. J. A. MERRITT, E. C. BORDEN, J. GEGNER and L. A. BALL\*. University of Wisconsin.

M-protein from influenza virus as an immunochemical reagent in ELISA systems. D. BUCHER\*, M. W. KHAN and I. KHARITONENKOV. Mt. Sinai School of Medicine.

Serotyping of human rotaviruses. R. G. WYATT\*, Y. HOSHINO, H. B. GREENBERG, A. R. KALICA, J. FLORES and A. Z. KAPIKIAN. National Institutes of Health.

## EPIDEMIOLOGY/CLINICAL VIROLOGY

## SESSION B

## (Vaccines)

Tuesday, August 3, 1982  
7:30 P.M.

CHAIRMAN: Stanley Plotkin

NIAID hepatitis B vaccine: responses in children (18 mos. - 16 yrs) living in families with a HbsAg carrier. J. M. ZAHRADNIK\* and F. B. HOLLINGER. Baylor College of Medicine.

Apparent anergy toward measles antigens in children who had first been vaccinated when very young. F. L. BLACK\*, B. GALVAO and F. R. SMITH. Yale University School of Medicine.

Five-year follow-up study of live varicella vaccine recipients by enhanced Nt and FAMA methods. Y. ASANO\*, P. ALBRECHT, G. V. QUINNAN and M. TAKAHASHI. Bureau of Biologics, Food and Drug Administration.

Prospects for viral protein vaccines: cloned, uncloned and synthetic. H. L. BACHRACH\*. Plum Island Animal Disease Center.

Liposomal enhancement of humoral responses to influenza subunit vaccine. E. S. BALKOVIC\* and H. R. SIX. Baylor College of Medicine.

Varicella vaccine. A. A. GERSHON\*, S. STEINBERG and NIH Collaborative Study Group. NYU.

CMV vaccines: Controversies and possibilities. S. PLOTKIN\*. Children's Hospital of Philadelphia.



## EPIDEMIOLOGY/CLINICAL VIROLOGY

## SESSION C

(Immunology)

Wednesday, August 4, 1982  
2:00 P.M.

CHAIRMAN: Frank Ennis

Macrophages and the induction of antiviral immunity to Sendai virus infection in mice. E. MEDZON\*. University of Western Ontario.

Disseminated parainfluenza virus infection in a child with severe combined immunodeficiency. J. A. FRANK\*, R. W. WARREN, J. R. ZELLER, J. A. TUCKER and C. M. WILFERT. Duke University Medical Center.

Influenza A specific IgA memory in the respiratory tract. P. F. WRIGHT\*, B. MURPHY, E. LAWRENCE and D. KARZON. Vanderbilt University.

Influenza: A model for understanding immunity to viruses. F. A. ENNIS\*, R. E. MAYNER and A. MEAGER. University of Massachusetts Medical Center.

Lymphocyte mediated immune cytotoxicity in dogs infected with virulent canine distemper virus. M. J. G. APPEL\*, W. R. SHEK and B. A. SUMMERS. James A. Baker Institute for Animal Health, New York State College of Veterinary Medicine.

Characteristics of the cell mediated immune response to murine rotavirus infection. H. SUZUKI\*, M. R. TALTY and P. L. OGRA. Children's Hospital - Buffalo.

Phenotypic diversity of B-lymphoid cell lines clonally transformed in vivo and in vitro by Epstein-Barr virus. N. BROWN\*, D. SMITH, G. MILLER, J. C. NIEDERMAN and J. E. ROBINSON. University of California/Los Angeles.

Analysis of the humoral response to lactate dehydrogenase-elevating virus. J. EFFRON\*, M. BRINTON. Wistar Institute.

Cytolytic activity of subpopulations of peripheral blood lymphocytes against human CMV target cells. J. L. WANER\* and J. NIERENBERG. Oklahoma Children's Memorial Hospital.

Varicella-zoster virus-specific HLA-restricted cytotoxic T cell responses in vitro of normal human lymphocytes. G. V. QUINNAN\* and L. VUJCIC. Bureau of Biologics, Food and Drug Administration.

## HEPATITIS

Wednesday, August 4, 1982  
2:00 P.M.

CHAIRMAN: Bill Robinson

Hepatitis B virus replicates by reverse-transcription. W. MASON\*, J. TAYLOR and J. SUMMERS. Institute for Cancer Research, Fox Chase.

Transcription of woodchuck hepatitis virus in chronically infected liver. C. W. OGSTON and J. SUMMERS. Institute for Cancer Research, Fox Chase.

Replication of the hepatitis B virus of domestic ducks. W. S. MASON, J. TAYLOR and J. SUMMERS. Institute for Cancer Research, Fox Chase.

Replication of duck hepatitis B virus: Presence of a protein covalently-bound to the 5' end of virion DNA and minus DNA strand intermediates.  
K. MOLNAR-KIMBER\*, J. SUMMERS, J. TAYLOR and W. MASON. Institute for Cancer Research, Fox Chase.

Replication of duck hepatitis B virus. K. L. MOLNAR-KIMBER, J. SUMMERS, J. M. TAYLOR and W. S. MASON. Institute for Cancer Research, Fox Chase.

## HERPESVIRUSES

## SESSION A

Monday, August 2, 1982

2:00 P.M.

CHAIRMAN: Ed Wagner and David Knipe

Herpes simplex virus derived vectors for the amplification of foreign DNA. R. R. SPAETE, A. D. KWONG, L. P. DIESS and N. FRENKEL\*. University of Chicago.

Characterization of cis functions of viral DNA sequences enriched for in populations of defective particles of pseudorabies virus. C. WU\* and T. BEN-PORAT. Vanderbilt University School of Medicine.

Herpesvirus-dependent amplification and inversion of cell-associated viral thymidine kinase gene flanked by a sequences and linked to an origin of DNA replication. E. MOCARSKI and B. ROIZMAN. University of Chicago.

HSV-1 F with a deletion in the internal inverted repeats is alive and well and frozen in the prototype orientation. K. L. POFFENBERGER\*, E. TABARES and B. ROIZMAN. University of Chicago.

Most of the genomes of pseudorabies (Pr) virus is colinear with the I<sub>L</sub> form of the genome of herpes simplex virus. T. BEN-PORAT\* and S. IHARA. Vanderbilt University School of Medicine.

Varicella-zoster virus DNA: Structure and variation. W. T. RUYECHAN\*, S. STRAUS, T. CASEY and J. HAY. U.S.U.H.S., Bethesda.

Expression of HSV-1 functions in Ltk<sup>-</sup> cells transformed with the HSV-1 TK gene and EcoRI restriction fragment F. R. M. SANDRI-GOLDIN\*, A. L. GOLDIN, L. E. HOLLAND, M. LEVINE and J. GLORIOSO. University of Michigan.

Characterization of HSV-1 transcripts. R. COSTA, R. DRAPER, R. FRINK, L. HALL and E. WAGNER\*. University of California, Irvine.

Transcription from the short unique segment of the HSV genome. L. I. PIZER\*, J. BETZ, T. HILL, J. SADLER and M. PEAKE. University of Colorado School of Medicine.

Late transcription in human cytomegalovirus. M. DAVIE\*, L. LOH and E.S. HUANG. University of North Carolina, Chapel Hill.

Transcriptional units of the pseudorabies (Pr) virus genome at different stages of the infective process. A. M. DEATLY\*, L. FELDMAN and A. S. KAPLAN. Vanderbilt University School of Medicine.

Herpes simplex virus mutations that alter the nuclear localization of function of the major DNA binding protein. D. M. KNIPE, C. LEE, P. GODOWSKI, L. RAFIELD and M. QUINLAN. Harvard Medical School.

A virion-associated protein phosphorylating activity is present in human strains of cytomegalovirus. W. GIBSON\* and C. ROBY. Johns Hopkins School of Medicine.

Assessment of the base sequence homology between the subtypes of equine herpesvirus 1. L. W. TURTINEN\*. University of Kentucky.

## HERPESVIRUSES

## SESSION B

Tuesday, August 3, 1982  
7:30 P.M.

CHAIRMAN: Harriett Isom and Dennis O'Callaghan

The use of interferon to establish latency by herpes simplex viruses in cell culture. F. RAPP\* and B. L. WIGDAHL. Pennsylvania State University.

The nature of DI particles of equine herpesvirus type 1 and their role in establishing and maintaining persistent infection. S. A. DAUENHAUER, R. P. BAUMANN, G. CAUGHMAN and D. J. O'CALLAGHAN. University of Mississippi Medical Center.

Interaction of herpesviruses with liver cells in culture. H. C. ISOM\*. Pennsylvania State University.

Non-immortalizing P3J-HR-1 Epstein-Barr Virus is a deletion mutant of its transforming parent, Jijoye. M. RABSON and G. MILLER. Yale University School of Medicine.

Metabolic consequences of cocarcinogen-HSV-2 transformed cell interaction. L. S. KUCERA, R. RESPESS, L. DANIEL and B. M. WAITE. Bowman Gray School of Medicine.

HSV-specific RNA and protein in tumors. J. MCDOUGALL\*. Fred Hutchinson Cancer Center.

Inhibition by arabinosylthymine of deoxythymidine kinase from Epstein-Barr Virus transformed cells. G. A. GENTRY\*, R. H. HOLTON and H. S. ALLAUDEEN. University of Mississippi Medical Center.

Properties of a cynomolgus monkey lymphoblastoid cell line and as associated transformed herpesvirus. R. L. HEBERLING\*, C. P. BIEBER and S. S. KALTER. Southwest Foundation, San Antonio.

Herpes simplex virus replication on hydroxyurea-resistant BHK cells. K. LEARY\*, B. GARRETT and B. FRANCKE. Yale University School of Medicine.

Phosphorylation of dT by HSV-1 dTK mutants. V. VEERISETTY\* and G. A. GENTRY.  
University of Mississippi Medical Center.

Rapid emergency of a new field strain of equine abortion virus (equine herpesvirus 1). G. ALLEN\*, M. YEARGAN, L. TURTINEN and J. BRYANS.  
University of Kentucky.

A cytomegalovirus DNA sequence flanked by tandemly repeated (CA)-Dinucleotides hybridizes to highly repetitive dispersed sequences in mammalian cell genomes. K.-T. JEANG, E. GAVIS and G. S. HAYWARD\*. The Johns Hopkins School of Medicine.

Structure and expression of the human cytomegalovirus genome during a non-permissive infection. R. L. LAFEMINA\* and G. S. HAYWARD. The Johns Hopkins School of Medicine.

Genetic and phenotypic studies of HSV-1 and HSV-2 ts mutants exhibiting altered expression of the major HSV DNA binding protein. S. K. WELLER, D. J. SABOURIN, B. A. PANCAKE, D. M. COEN and P. A. SCHAFFER\*. Sidney Farber Cancer Institute.

## HERPESVIRUSES

## SESSION C

Wednesday, August 4, 1982  
2:00 P.M.

CHAIRMAN: Richard Courtney and Lenore Pereira

- Restructuring of the herpes simplex virus genome to generate viruses with duplications of selected glycoprotein genes. G.T.-Y. LEE\*, K. POGUE-GEILE, L. PEREIRA and P. G. SPEAR. University of Chicago.
- Synthesis and processing of the herpes simplex virus type 1 glycoproteins gB and gC. E. A. WENSKE and R. J. COURTNEY\*. University of Tennessee.
- Analysis of the cellular distribution of HSV-1 glycoproteins gC and gD during the productive infection of tissue culture cells. B. NORRILD\*, I. VIRTANEN, B. PEDERSEN, V. P. LETHO and L. PEREIRA. University of Copenhagen.
- Herpes simplex virus type 1 mutants selected by resistance to neutralization with glycoprotein specific monoclonal antibodies. T. C. HOLLAND\*, S. D. MARLIN, J. C. GLORIOSO and M. LEVINE. University of Michigan.
- Immune detection of insoluble proteins of herpes simplex virus by monoclonal antibodies. D. K. BRAUN\*, L. PEREIRA, B. NORRILD and B. ROIZMAN. University of Chicago.
- Immunological responses to purified herpes simplex virus glycoproteins demonstrated by enzyme immunoassay. M. COLEMAN\*, L. PEREIRA, P. BAILEY, D. DONDERO, C. WICKLIFFE and A. NAHMIAS. Emory University.
- Antigenic and structural analysis of glycoprotein D of herpes simplex virus. R. J. EISENBERG\* and G. H. COHEN. University of Pennsylvania.
- Immune response to an early polypeptide in human cytomegalovirus infected cells. L. PEREIRA\*, M. HOFFMAN and N. CREMER. California Department of Health, Berkeley.
- Cytomegalovirus infected cell polypeptides immune precipitated by children with congenital and perinatal infections. S. STAGNO\*, L. PEREIRA, M. HOFFMAN, J. E. VOLANAKIS and N. CREMER. University of Alabama, Birmingham.



Inhibition of human cytomegalovirus glycoprotein synthesis by 2-deoxy-D-glucose.  
J. L. WANER\* and H. MAQUIRE. Oklahoma Children's Memorial Hospital.

Herpesvirus induced atherosclerosis. C. G. FABRICANT\*, J. FABRICANT, C. R.  
MINICK and M. M. LITRENTA. New York State College of Veterinary Medicine,  
Ithaca.

Herpes simplex viruses can cause obesity ... at least in mice. R. F. SCHINAZI\*,  
A. J. NAHMIAS and J. PETERS. Emory University School of Medicine.

## INSECT VIRUSES

## SESSION A

## (Baculoviruses)

Monday, August 2, 1982  
2:00 P.M.

CHAIRMAN: Max Summers

Expression of Autographa Californica nuclear polyhedrosis virus: Analysis of late transcripts and their translation products. D. Z. ROHEL\* and P. FAULKNER. Queen's University, Kingston.

Expression of the baculovirus genome: Transcription and translation products associated with the initiation of viral DNA synthesis. M. ERLANDSON\*, J. GORDON and E. CARSTENS. Queen's University, Kingston.

Aspects of ACNPV transcription as revealed by cDNA cloning and Northern blot analysis. M. J. ADANG, D. W. MILLER\* and L. K. MILLER. University of Idaho.

The structure of a baculovirus polyhedrin mRNA. G. F. ROHRMANN\*, D. LEISY, K. C. CHOW, G. D. PEARSON and G. S. BEAUDREAU. Oregon State University.

Analysis of ACMNPV polyhedrin-negative mutants constructed using in vitro mutagenesis and gene replacement. G. SMITH\*, M. FRASER and M. SUMMERS. Texas A & M University.

An ACNPV mutant containing an insertion of a copia-like transposable element. D. W. MILLER\* and L. K. MILLER. University of Idaho.

Presence of host sequences in spontaneous genetic variants of baculoviruses which exhibit the fp plaque phenotype. M. J. FRASER\*, G. SMITH and M. D. SUMMERS. Texas A & M University.

On the problem of persistence of ACMNPV DNA in mammalian cells. S. T. TJIA, G. M. zu ALTEUSCHILDESCHE and W. DOERFLER\*. University of Cologne, West Germany.

Homologous DNA sequences interspersed in the genome of Autographa Californica nuclear polyhedrosis virus (ACMNPV). M. A. COCHRAN\* and P. FAULKNER. Queen's University, Kingston.

## INSECT VIRUSES

## SESSION B

(Invertebrate RNA Viruses)

Tuesday, August 3, 1982  
7:30 P.M.

CHAIRMAN: Alan Wood

Black beetle virus: Translational control of viral protein synthesis. P. D. FRIESEN\* and R. R. RUECKERT. University of Wisconsin.

Infectivity assay for black beetle virus and isolation of persistently infected Drosophila cells. B. H. SELLING\* and R. R. RUECKERT. University of Wisconsin.

An invertebrate calici-like virus. T. J. MORRIS\*, B. HILLMAN, D. E. SCHLEGEL, W. R. KELLEN and D. HOFFMAN. University of California, Berkeley.

Infectivity of nodaviral RNA in cultured Drosophila cells. T. M. GALLAGHER\*, P. D. FRIESEN and R. R. RUECKERT. University of Wisconsin.

Black beetle virus RNA replication and transcription of the subgenomic message. L. A. GUARINO\*. University of Wisconsin.

Small RNA viruses of insects. N. F. MOORE\*, B. REAVY and J.J.K. PUCCIN. NERC Institute of Virology, Oxford.

## INSECT VIRUSES

## SESSION C

Wednesday, August 4, 1982  
2:00 P.M.

CHAIRMAN: Bob Granados

Physical map of the genome of S. exempta MNPV and its naturally occurring variants. S. E. BROWN\*, J. E. MARUNIAK and D. L. KNUDSON. Yale University School of Medicine.

Physical map of the genome of S. frugiperda MNPV and its naturally occurring variants. J. E. MARUNIAK\*, S. E. BROWN and D. L. KNUDSON. Yale University School of Medicine.

Genetic homology between the genomes A. californica, S. exempta, and S. frugiperda MNPVS. J. E. MARUNIAK\*, S. E. BROWN and D. L. KNUDSON. Yale University School of Medicine.

Cloning and physical mapping of multipartite DNA from virus of a parasitoid Wasp. P. J. KRELL\*, M. D. SUMMERS and S. B. VINSON. University of Guelph.

A host range variant of Autographa Californica nuclear polyhedrosis virus: Initial characterization of infection properties. S. L. BILIMORIA\*, D. M. GERWIG and W. M. CARPENTER. Texas Tech University.

Characterization of the non-occluded baculovirus HZ-1: Productive and persistent replicative events. J. P. BURAND\* and H. A. WOOD. Boyce Thompson Institute.

Comparison of the structural proteins of the budded and occluded phenotypes of Autographa Californica NPV by serological methods. L. E. VOLKMAN\*. University of California, Berkeley.

Relationship of baculovirus polyhedrins revealed by monoclonal antibodies. Y.-S. HUANG AND C. Y. KAWANISHI\*. EPA, Research Triangle Park.

Baculovirus induced glycoproteins in cell culture. B. STILES\* and H. A. WOOD. Boyce Thompson Institute.

## NOTES

## NEGATIVE-STRAND RNA VIRUSES (NONSEGMENTED)

## SESSION A

Monday, August 2, 1982  
2:00 P.M.

CHAIRMAN: Bob Wagner

Cloning of the vesicular stomatitis virus nucleocapsid protein gene and its expression in eukaryotic cells. J. SPRAGUE\*, J. H. CONDRA, H. ARNHEITER and R. A. LAZZARINI. NINCDS, NIH.

Sequential appearance of small RNA transcripts in vitro by vesicular stomatitis virus. H. PIWNICA-WORMS and J. D. KEENE\*. Duke University Medical Center.

Regulatory role of RNA sequences of vesicular stomatitis virus. A. C. EHRNST and A. S. HUANG. Children's Hospital and Harvard Medical School.

Synthesis and biological activity of an abnormal VSV mRNA. R. C. HERMAN\*. New York State Department of Health, Albany.

In vitro transcription studies support of a stop-start model for vesicular stomatitis virus transcription. S. U. EMERSON. University of Virginia.

Determination of the role of L and NS proteins in vesicular stomatitis virus transcription as studied by in vitro and in vivo reconstitution. G. B. THORNTON\*, D. DE, B. SINGH and A. K. BANERJEE. Roche Institute of Molecular Biology.

Structural analysis of the VSV NS protein. L. L. MARNELL\*, S. A. HARMON and D. F. SUMMERS. University of Utah.

Protein kinase activity associated with NS protein of vesicular stomatitis virus. J. C. BELL\*, E. G. BROWN and L. PREVEC. McMaster University.

The in vitro replication of vesicular stomatitis virus and its defective interfering particles. S. A. MOYER\* and R. W. PELUSO. Vanderbilt University.

Synthesis of VSV negative strand RNA and proteins in vitro and their association to form nucleocapsids. N. L. DAVIS\*, J. T. PATTON and G. W. WERTZ. University of North Carolina, Chapel Hill.

Replication of VSV defective particle RNAs in vitro. G. W. WERTZ\*. University of North Carolina, Chapel Hill.

Indomethacin inhibits RNA transcription and replication of vesicular stomatitis virus. P. K. MUKHERJEE\* and R. W. SIMPSON. Rutgers University.



## NEGATIVE-STRAND RNA VIRUSES (NONSEGMENTED)

## SESSION B

Tuesday, August 3, 1982  
7:30 P.M.

CHAIRMAN: Alice Huang

Specific inhibition of viral replication by oligopeptides with amino acid sequences similar to those at the N-termini of paramyxovirus polypeptides. C. D. RICHARDSON\*, A. SCHEID and P. W. CHOPPIN. Rockefeller University.

Nuclear involvement of vesicular stomatitis virus transcripts. M. G. KURILLA\* and J. D. KEENE. Duke University Medical Center.

Inhibition of DNA transcription initiation by the leader RNA of wild-type vesicular stomatitis virus. J. J. MCGOWAN\* and R. R. WAGNER. University of Virginia.

Studies on cellular protein synthesis inhibition by VSV. J. LUCAS-LENARD\*, D. DUNIGAN, M. CENTRELLA, T. KIRCHGESSNER, M. PENSIERO, E. DRATEWKA-KOS and S. BAIRD. University of Connecticut, Storrs.

Inhibition of cellular translation by vesicular stomatitis virue. J. R. THOMAS\* and R. R. WAGNER. University of Virginia.

The effect of DI particles on inhibition of host macromolecular synthesis by VSV virions. W. M. SCHNITZLEIN, K. O'BANION and M. E. REICHMANN\*. University of Illinois.

VSV-mediated changes in host cell membranes: Effect on endocytosis. P. WHITAKER-DOWLING\*, D. WILCOX, C. C. WIDNELL and J. S. YOUNGNER. University of Pittsburgh.

Association of Newcastle Disease Virus particles with the cytoskeletal framework of infected CHO cells. L. J. WARD and T. G. MORRISON\*. University of Massachusetts, Worcester.

Sendai virus proteins determine the course of membrane fusion. A. M. HAYWOOD\* and B. P. BOYER. University of Rochester.

Does Newcastle Disease Virus require a neuraminidase? G. W. SMITH\* and L. E. HIGHTOWER. University of Connecticut, Storrs.

Monoclonal antibody analysis of the HN glycoprotein of Newcastle Disease Virus. R. M. IORIO\* and M. A. BRATT. University of Massachusetts, Worcester.

Detection of VSV in mouse brains by Northern hybridization. D. CAZE\* and A. S. HUANG. Children's Hospital and Harvard Medical School.

## NEGATIVE-STRAND RNA VIRUSES (NONSEGMENTED)

## SESSION C

Wednesday, August 4, 1982  
2:00 P.M.

CHAIRMAN: Mike Bratt

Is the M protein of Newcastle Disease Virus involved in hemolysis and infectivity? M. E. PEEPLES\* and M. A. BRATT. University of Massachusetts, Worcester.

Novel phenotype of RNA synthesis expressed by VSV isolated from persistent infection. T. K. FREY\* and J. S. YOUNGNER. University of Pittsburgh.

Isolation and characterization of new 3' end DI particles of vesicular stomatitis virus. C. Y. KANG\*. University of Ottawa School of Medicine.

Both genome termini are present in Sendai Virus DI RNA species. G. G. RE, K. C. GUPTA and D. W. KINGSBURY. St. Jude Children's Research Hospital, Memphis.

Polycistronic transcription in Newcastle Disease Virus infected cells. A. JAMES\* and T. G. MORRISON. University of Massachusetts Medical School, Worcester.

Transcription complex of measles virus: Intracellular localization of component polypeptides using viral antigen-specific hybridoma antibodies. D. R. CARRIGAN\* and K. P. JOHNSON. University of Maryland Hospital, Baltimore.

Transcriptase activity associated with respiratory syncytial virus. G. N. MBUY\* and O. M. ROCHOVANSKY. Christ Hospital Institute of Medical Research, Cincinnati.

Analysis of the gene products of respiratory syncytial virus. P. L. COLLINS\*, Y. HUANG and G. W. WERTZ. University of North Carolina, Chapel Hill.

Modulation of respiratory syncytial virus infected by defective-interfering particles. M. W. TREUHART\*. Marshfield Medical Foundation, Marshfield.

Generation and characterization of a nondefective interfering particle of vesicular stomatitis virus: Homotypic and heterotypic interference. G. J. WILLIAMS\* and H. R. THACORE. SUNY at Buffalo.

Interaction of rabies virus with cell surface receptors. K. J. REAGAN\* and W. H. WUNNER. The Wistar Institute.

## NEGATIVE-STRANDED RNA VIRUSES (SEGMENTED)

## SESSION A

(Influenza Virus)

Tuesday, August 3, 1982  
7:30 P.M.

CHAIRMAN: Debi Nayak and Dick Compans

Structure of influenza B virus hemagglutinins. M. KRYSTAL\*, J. F. YOUNG and P. PALESE. Mount Sinai School of Medicine.

Location of antigenic determinants in the H1 subtype influenza virus haemagglutinin. A. J. CATON\*, F. L. RAYMOND, W. GERHARD, A. P. HENDAL and G. G. BROWNLEE. Sir William Dunn School of Pathology, Oxford.

Sequence analysis of atypical field strains identifies a site in the influenza A (H3) hemagglutinin which contributes to major antigenic specificity. G. BOTH, M. SLEIGH, N. COX and A. KENDAL\*. CDC, Atlanta.

Immune response to human influenza virus hemagglutinin expressed in Escherichia coli. A. R. DAVIS\*, T. BOS, M. UEDA and D. P. NAYAK. University of California/Los Angeles.

Cloning and expression of influenza virus genes. J. F. YOUNG\*, P. N. GRAVES, J. WALLEN and P. PALESE. Mount Sinai School of Medicine.

Complete nucleotide sequence of the influenza virus B/Lee/40 neuraminidase gene. M. W. SHAW\*, R. A. LAMB, D. J. BRIEDIS, B. W. ERICKSON and P. W. CHOPPIN. Rockefeller University.

The RNAs of influenza C viruses. H. MEIER-EWERT\*, C. M. CLERX-Van HAASTER and J.P.M. CLERX. Institute for Medical Microbiology, Munich.

Evolutionary relationships among influenza viruses. W. J. BEAN, JR.\*. St. Jude Children's Hospital, Memphis.

Sequence analysis of the polymerase 1 gene and secondary structure predictions of polymerase proteins of human influenza virus A/WSN/33. N. SIVASUBRAMANIAN\* and D. P. NAYAK. University of California/Los Angeles.

## NEGATIVE-STRANDED RNA VIRUSES (SEGMENTED)

## SESSION B

(Bunyaviruses and Arenaviruses)

Wednesday, August 4, 1982  
2:00 P.M.

Chairman: Bill Rawls and Dick Compans

The coding strategies of bunyaviruses. D.H.L. BISHOP, H. AKASHI and F. FULLER\*.  
University of Alabama, Birmingham.

RNA synthesis in LaCross virus infected cell culture. H. LINDSEY-REGNERY, C.  
CABRADILLA, B. P. HOLLOWAY and J. F. OBIJESKI\*. CDC, Atlanta.

Structural and non-structural polypeptides of sandfly fever viruses  
(Bunyaviridae family) synthesized in vivo and in vitro. J. F. SMITH\* and D.  
Y. PIFAT. University of Maryland School of Medicine.

In vitro synthesis of Tacaribe virus polypeptides. D. P. BOERSMA\* and R. W.  
COMPANS. University of Alabama, Birmingham.

Identification of LCM virus variants diploid in S-RNA. V. ROMANOWSKI\* and  
D.H.L. BISHOP. University of Alabama, Birmingham.

Comparison of the RNA genomes of several LCM virus strains by oligonucleotide  
fingerprinting. F. J. DUTKO\* and M. B.A. OLDSTONE. Scripps Clinic and  
Research Foundation.

Probing interrelationships among arenaviruses with monoclonal antibodies. M. J.  
BUCHMEIER\* and C. R. HOWARD. Scripps Clinic and Research Foundation and  
London School of Hygiene and Tropical Medicine.

Specificity of cytotoxic T cell "tolerance" in LCMV carrier mice. R. AHMED\*, M.  
J. BUCHMEIER and M.B.A. OLDSTONE. Scripps Clinic and Research Foundation.

Generation and cloning of cytotoxic T lymphocytes induced by the Armstrong  
strain of LCMV. J. BYRNE\*, P. CASALI and M.B.A. OLDSTONE. Scripps Clinic  
and Research Foundation.

Influenza viral messenger RNA synthesis: The role of individual viral P proteins in cap recognition, transcription initiation and elongation. J. BRAAM\*, I. ULMANEN, B. BRONI and R. M. KRUG. Memorial Sloan-Kettering Institute.

In vitro transcription of defective interfering particle-specific RNAs of influenza viruses. P. K. CHANDA, T. M. CHAMBERS\* and D. P. NAYAK. University of California/Los Angeles.

Correlation of host-range reassortants of influenza virus to the presence of an aberrant NS gene. H. F. MAASAB and D. C. DeBORDE\*. University of Michigan.

## PAPOVAVIRUSES

Wednesday, August 4, 1982  
2:00 P.M.

CHAIRMAN: Norman Salzman

Isolation and characterization of monopinocytotic vesicles from polyoma virus-infected mouse kidney cells. G. R. GRIFFITH\* and R. A. CONSIGLI. Kansas State University.

Post-translation modifications of polyoma virus major coat protein VP1. D. G. ANDERS\* and R. A. CONSIGLI. Kansas State University.

Evidence for formation of a transcription complex during in vitro transcription of SV40 DNA. V. NATARAJAN\*, M. J. MADDEN and N. P. SALZMAN. NIAID, NIH.

RNA transcription of cloned human papilloma virus type-1 in COS cells. L. T. CHOW\* and T. R. BROKER. Cold Spring Harbor.

Mutations which enhance or suppress expression of the major late SV40 promoters. J. BRADY\*, M. RADONOVICH, M. VODKIN, M. THOREN, G. DAS and N. P. SALZMAN. NIAID, NIH.

Recombinant viral genomes in cells transformed by polyoma virus. M. FLUCK\*. Michigan State University.

Linkage of spontaneous expression of host 54K protein and susceptibility to SV40 transformation in inbred strains of mouse. R. POLLACK\* and S. CHEN. Columbia University.

Significance of plasma membrane location of middle T antigen of polyoma virus in oncogenesis. Y. ITO\* and K. SEGAWA. NIAID, NIH.

Structural protein characterizations of a host-range transformation mutant of polyoma virus. L.K.C. YUEN\* and R. A. CONSIGLI. Kansas State University.

Reversion to anchorage dependent growth control deletes specific SV40 DNA sequences despite continued expression of SV40 early region. R. POLLACK\* and G. BLANCK. Columbia University.

## PARVOVIRUSES

## SESSION A

Monday, August 2, 1982  
2:00 P.M.

CHAIRMAN: Barrie Carter

In vitro synthesis of bovine parvovirus DNA. A. T. ROBERTSON, L. L. BRIGGS and R. C. BATES. VPI, Blacksburg.

Isolation and characterization of parvovirus minute virus of mice (MVM) replication complexes. S.M.W. TOTH and R. W. ARMENTROUT. University of Cincinnati.

In situ nuclease sensitivity of intranuclear MVM DNA. J. J. LEARY, M. J. MERCHLINSKY and D. C. WARD. Yale University School of Medicine.

Nucleosome-like structure of intracellular adeno-associated virus DNA. C. J. MARCUS-SEKURA and B. J. CARTER. NIADDK, NIH.

Adenovirus serotype mutant having a deletion in early gene region 4 is defective for AAV helper function. B. J. CARTER, C. J. MARCUS-SEKURA, C. A. LAUGHLIN and G. KETNER. NIADDK, NIH and Johns Hopkins University

Regulation of adeno-associated virus capsid polypeptide synthesis by the adenovirus DNA-binding protein and VA<sub>I</sub> RNA. J. E. JANIK, M. M. HUSTON, K. CHO and J. A. ROSE. NIAID, NIH.

Biological activity of adeno-associated virus-pBR322 recombinant DNA in mammalian cells. N. MUZYCZKA\*. University of Florida, Gainesville.

Genomic organization of the parvovirus H1. S. L. RHODE, III and P. PARADISO. Institute of Medical Research, Bennington.

Studies on MVM using cloned plasmid DNA. M. MERCHLINSKY, P. TATTERSALL, J. LEARY, S. COTMORE, E. GARDINER and D. WARD. Yale University Medical School.



## PARVOVIRUSES

## SESSION B

Tuesday, August 3, 1982

7:30 P.M.

CHAIRMAN: Peter Tattersall

Antigenic structure and variation of the viruses of canine parvovirus, feline panleukopenia and mink enteritis. C. R. PARRISH and L. E. CARMICHAEL. New York State College of Veterinary Medicine, Ithaca.

Characterization and immunogenicity of porcine parvovirus structural proteins passaged in swine fetuses. T. W. MOLITOR, M. S. COLLETEE and H. S. JOO. University of Minnesota.

Transcription of Minute Virus of Mice in mammalian systems. D. PINTEL, D. K. DADA-CHANJI, M. MERCHLINSKY, C. ASTELL, P. TATTERSALL and D. WARD. Yale University Medical School.

Bovine parvovirus transcription products. P. R. BURD and R. C. BATES. VPI, Blacksburg.

Bovine parvovirus translation products. M. LEDERMAN and R. C. BATES. VPI, Blacksburg.

Mapping the genes of the parvovirus H-1 and identification of a non-capsid virus protein. P. R. PARADISO\* and S. L. RHODE, III. Institute of Medical Research, Bennington.

Non-structural proteins of MVM. S. COTMORE\*, I. STROKE, L. STURZENBECKER and P. TATTERSALL. Yale University School of Medicine.

Analysis of the allotropic determinant of MVM. E. GARDINER and P. TATTERSALL\*. Yale University School of Medicine.

Biochemical analysis of the interaction of two allotropic strains of MVM with their host cells. B. SPALHOLZ\*, J. BRATTON, D. WARD and P. TATTERSALL. Yale University School of Medicine.

Recognition sequences for virus DNA terminal processing. D. C. WARD\*. Yale University School of Medicine.

## PICORNAVIRUS

## SESSION A

Monday, August 2, 1982  
2:00 P.M.

CHAIRMAN: Ellie Ehrenfeld and Eckard Wimmer

Replication of poliovirus RNA and the biosynthesis and turnover of VPg. E. WIMMER\*, B. L. SEMLER, T. TAKEGAMI, A. J. DORNER, R. HANECAK and P. G. ROTHBERG. SUNY, Stony Brook.

Poliovirus RNA synthesis is linked to the rate of protein synthesis. R. E. LUNDQUIST\*. Bureau of Biologics, Bethesda.

Synthesis of polioviral RNA in vitro. J. B. FLANEGAN\*. University of Florida, Gainesville.

In vitro replication of poliovirus - Initiation of RNA synthesis. A. DASGUPTA\*. University of California, Los Angeles.

Identification of amino acid and nucleotide sequence of FMDV RNA polymerase. B. H. ROBERTSON\*, D. O. MORGAN, D. M. MOORE, M. J. GRUBMAN, T. FISCHER, G. WEDDEL, D. DOWBENKO and D. YANSURA. Plum Island Animal Disease Center, NY.

Proteolytic processing of poliovirus polypeptides: Antibodies of polypeptide P3-7c inhibit cleavage at GLN-GLY amino acid pairs. R. HANECAK\*, B. L. SEMLER, C. W. ANDERSON and E. WIMMER. SUNY, Stony Brook.

Kinetic studies on processing of polioviral protein. M. PALLANSCH\* and R. RUECKERT. University of Wisconsin.

A host range mutant of human rhinovirus in which a nonstructural protein is altered. F. H. YIN\* and N. LOMAX. DuPont, Wilmington.

Cap function and regulation of translation during poliovirus infection. N. SONENBERG\* and K.A.W. LEE. McGill University.

Effect of poliovirus infection on messenger ribonucleoprotein particles. C. L. JONES\* and E. EHRENFELD. University of Utah.

Progress in sequencing the RNA and protein of encephalomyocarditis virus. A. PALMENBERG\*, N. DRAKE and D. OMILIANOWSKI. University of Wisconsin.

## PICORNAVIRUS

## SESSION B

Wednesday, August 4, 1982

2:00 P.M.

CHAIRMAN: Richard Crowell and Anne Mosser

Analysis of neutralization and binding epitopes on foot-and-mouth disease virion particles. B. BAXT\*, C. A. PIMPONE and D. O. MORGAN. Plum Island Animal Disease Center, NY.

Biosynthetic vaccine for foot-and-mouth disease. D. KLEID\*, D. YANSURA, D. DOWBENKO, M. HOATLIN, G. WEDDELL, D. M. MOORE, M. GRUBMAN, B. H. ROBERTSON, D. O. MORGAN and P. McKERCHER. Genentech.

Analysis of poliovirus neutralization epitopes by neutralizing monoclonal antibodies. E. A. EMINI\*, B. A. JAMESON, A. J. LEWIS, G. R. LARSEN and E. WIMMER. SUNY, Stony Brook.

Neutralization of poliovirus by monoclonal antibody: Kinetics and stoichiometry. J. P. ICENOGLE\*, G. DUKE, R. R. RUECKERT and J. W. ANDEREGG. University of Wisconsin.

Use of "D"-specific monoclonal antibody in a radioimmune precipitation assay (RIPA) to measure "D" antigen content of poliomyelitis vaccine. F. KNAUERT\* and M. KLUTCH. Bureau of Biologics, Bethesda.

Antigenicity of subviral particles found in poliovirus infected HeLa cells. A. G. MOSSER\*, S. W. HONG and R. R. RUECKERT. University of Wisconsin.

Characterization of the coxsackievirus-receptor complex. J. E. MAPOLES and R. L. CROWELL. Hahnemann Medical College.

Preliminary characterization of ts mutants of Coxsackievirus B3. C. J. GAUNTT\*. University of Texas Health Sciences Center, San Antonio.

Identification of a variant strain of echovirus 9 by immunoprecipitation. S. N. LEHRMAN\*. Duke University Medical Center.

Buoyant density and polyamine content of cesium-permeable picornaviruses. G. S. FOUT\*, J. MAPOLES, K. C. MEDAPPA, J. W. ANDEREGG and R. R. RUECKERT. University of Wisconsin.

## PLANT VIRUSES AND VIROIDS

## SESSION A

(Virus and Viroid Diseases and Relationships)

Monday, August 2, 1982  
2:00 P.M.

CHAIRMAN: Jack Morris

Viral specific dsRNA: Isolation and identification for virus diagnosis. T. J. MORRIS\*, B. HILLMAN and S. LOMMEL. University of California, Berkeley.

Potyvirus strain differentiation. R. H. BAUM\*, B. B. REDDICK and O. W. BARNETT. Clemson University.

A comparative analysis of the virus-specific proteins of several soybean mosaic virus isolates. E. HIEBERT\*. University of Florida.

A molecular hybridization analysis of the RNAs of isolates of barley yellow dwarf virus. M. ZAITLIN\*, P. PALUKAITIS and W. F. ROCHOW. Cornell University.

Hydrophobic chromatography of plant viruses. S. BOATMAN\*. Hollins College.

Genetic determinants for symptom production and host specificity on the two RNA components of certain Dianthoviruses. C. HIRUKI\* and T. OKUNO. University of Alberta.

Tobacco tumor virus. A. MISRA\*. Southern Illinois University.

The *Vicia faba* male sterility agent: Is a new virus classification necessary? L. K. GRILL\*, L. MURRAY, S. J. GARGER and T. H. TURPEN. Zoecon Corporation.

Viroid-like RNAs associated with burdock stunt disease. C. WEI, T. PO\*, X. YU-XIANG and L. YONG. Academia Sinica.

An ELISA survey of Aspen for the presence of tobacco necrosis, tobacco ringspot, and poplar mosaic viruses. R. F. BOZARTH\*, C. R. HIBBEN and P. VIDAL. Indiana State University.

The replication of a satellite RNA associated with turnip crinkle virus. S. B. ALTENBACH\* and S. M. HOWELL. University of California, San Diego.

Effect of actinomycin D and  $\alpha$ -amanitin on the replication of potato spindle tuber viroid in suspension culture. P. PALUKAITIS, M. D. ANKENY\*, D. LAKSHMAN and M. ZAITLIN. Cornell University.

## PLANT VIRUSES AND VIROIDS

## SESSION B

(Replication)

Tuesday, August 3, 1982  
7:30 P.M.

CHAIRMAN: Candace Collmer

- Infection of tobacco cells in suspension culture with TMV: An alternative to mesophyll protoplasts. M. A. SULZINSKI\* and M. ZAITLIN. Cornell University.
- Further purification and characterization of RNA-dependent RNA polymerase from brome mosaic virus infected barley. J. J. BUJARSKI\* and T. C. HALL. University of Wisconsin.
- Purification and characterization of the cowpea mosaic virus RNA replication complex. L. DORSSERS\*, J. van der MEER, R. HANEMAAIJER, P. ZABEL and A. van KAMMEN. Wageningen.
- The content, infectivity, and length distribution of poly(A) at the 3'-terminus of polyadenylated RNA from barley stripe mosaic virus (Xinjiang strain). X. DE-ZHEN, P. MEI-YUN\* and G. GUO-RONG. Academia Sinica.
- Purification and characterization of RNA-dependent RNA polymerase from cowpea chlorotic mottle virus infected cowpeas. W. A. MILLER\* and T. C. HALL. University of Wisconsin.
- Species of RNA generated and encapsidated during tobacco mosaic virus infection. D'ANN ROCHON\* and A. SIEGEL. Wayne State University.
- Detection of subgenomic RNA species of tobacco etch virus. T. M. OTAL\* and V. HARI. Wayne State University.
- Detection of subgenomic RNAs produced during brome mosaic virus infection. P. A. KIBERSTIS\*, L. S. LOESCH-FRIES and T. C. HALL. University of Wisconsin.
- Multiple species of double-stranded RNA associated with maize stripe virus. B. W. FALK\* and J. H. TSAI. University of Florida.
- Relationship of mRNA function to TMV RNA synthesis. W. DAWSON\*. University of California, Riverside.

## PLANT VIRUSES AND VIROIDS

## SESSION C

(Virus and Viroid Structure)

Wednesday, August 4, 1982  
2:00 P.M.

CHAIRMAN: Larry Grill

Cloning of complementary DNA of tobacco etch virus RNA and in vivo analysis of viral transcripts. W. G. DOUGHERTY\* and J. C. SORENSON. N. C. State University.

The structure of the genome of a geminivirus. R. M. GOODMAN\*, A. J. HOWARTH and S. HABER. University of Illinois.

Partial nucleotide sequence of tobacco rattle virus (CAM strain) RNA-2. S.-C. HUANG\* and A. SIEGEL. Wayne State University.

Assembly studies on belladonna mottle virus. P. ARGOS\*, R. VIRUDACHALAM, K. L. HEUSA, J. L. MARKLEY and K. SITARAMAN. Purdue University.

The H protein of tobacco mosaic virus contains sequences of the viral coat protein. C. W. COLLMER\*, V. M. VOGT and M. ZAITLIN. Cornell University.

Synthesis and cleavage of the proteins of two comoviruses. D. S. SHIH\*, X.-X. PENG, C. GABRIEL and K. DERRICK. Louisiana State University.

Self-assembly of the cowpea strain of southern bean mosaic virus. J. W. ERICKSON\* and H. S. SAVITHRI. Purdue University.

Melting of viral RNA by coat protein: Importance of RNA structure for virus assembly. J. W. ERICKSON. Purdue University.

Alternate forms of the potato spindle tuber viroid plus strand. A. D. BRANCH\*, K. K. WILLIS, J. T. ODELL and A. D. BRANCH and H. D. ROBERTSON. Rockefeller University.

Symptom expression and sequence analysis of various PSTV isolates. J. T. ODELL\*, A. D. BRANCH and H. D. ROBERTSON. Rockefeller University.

A comparison of three satellite RNAs of cucumber mosaic virus. P. PALUKAITS\*,  
D. CONSALVES and M. ZAITLIN. Cornell University.

Nucleotide sequence and proposed secondary structure of the budblight strain of  
satellite tobacco ringspot virus. G. BRUENING\*, P. KEESE and R. H. SYMONS.  
University of California, Davis and University of Adelaide.

Study on the genome of CaMV (Xinjiang isolate): Restriction mapping and cloning  
in pBR322. F. RONG-XIANG, C. FA-XING, P. MING, T. YING-CHUAN and M.  
KE-QIANG\*. Academia Sinica.



## POXVIRUSES AND IRIDOVIRUSES

Wednesday, August 4, 1982  
2:00 P.M.

CHAIRMAN: Richard Condit

An in vitro analysis of two early mutants of rabbit poxvirus. R. W. MOYER\* and G. D. BROWN. Vanderbilt University.

Temperature sensitive mutants of vaccinia virus. R. C. CONDIT, A. MOTYCZKA, G. SPIZZ, P. SRIDHAR and P. RACZYNSKI. SUNY, Buffalo.

Mechanism of DNA replication of a temperature sensitive mutant of vaccinia virus. B.G.T. POGO\*. Mt. Sinai School of Medicine.

The arrangement of repeated and unique sequences at the termini of cowpox virus DNA. D. J. PICKUP\* and W. K. Joklik. Duke University Medical Center.

Construction of poxviruses as eukaryotic cloning vectors. D. PANICALI and E. PAOLETTI. New York State Department of Health, Albany.

Use of vaccinia virus as a selectable eukaryotic cloning and expression vector. MICHAEL MACKETT, GEOFFREY SMITH and BERNARD MOSS\*. NIAID, NIH.

Comparison of the DNAs of selected orthopoxviruses including variola, monkeypox, white variants of monkeypox and variola-like viruses from laboratory stocks of monkeypox virus. J. J. ESPOSITO\*, J. H. NAKANO, C. D. CABRADILLA and J. F. OBIJESKI. CDC, Atlanta.

African Swine Fever Virus (ASFV) replication: Demonstration of a nuclear antigen in infected vero cells. K. A. MAJIYAGBE\*. National Veterinary Research Institute, Vom Via Jos, Nigeria.

Structure of the vaccinia virus thymidine kinase gene. D. E. HRUBY\* and L. A. BALL. University of Wisconsin.

Transcription of the vaccinia virus thymidine kinase gene during infection. D. J. ALBRIGHT\*, D. E. HRUBY and L. A. BALL. University of Wisconsin.

Discriminatory inhibition of protein synthesis in a cell free system by vaccinia virus transcripts. G. COPPOLA\* and R. BABLANIAN. SUNY Downstate Medical Center.

## RETROVIRUSES

## SESSION A

(Genetic Aspects)

Monday, August 2, 1982  
2:00 P.M.

CHAIRMAN: Peter Vogt

Synthesis and integration of avian retrovirus DNA. J. M. TAYLOR\* and T. W. HSU.  
Institute for Cancer Research, Fox Chase.

Characterization of the linear and covalently closed circular proviral DNAs of  
bovine leukemia virus. S. V. S. KASHMIRI\*. University of Pennsylvania.

Avian retrovirus PP32 DNA binding protein: recognition of specific sequences on  
retrovirus DNA terminal repeats. D. GRANDGENETT\*, P. HIPPENMEYER, R. KNAUS,  
V. PARSONS and M. GOLOMB. Institute for Molecular Virology, St. Louis.

The origins of the structural and transforming genes of reticuloendotheliosis  
virus. R. V. GILDEN\*, N. RICE and S. OROSZLAN. NCI-Frederick Cancer  
Research Facility.

Isolation and characterization of new feline sarcoma viruses - one of which  
contains a novel feline onc sequence. W. D. HARDY, JR.\*, E. E. ZUCKERMAN,  
P. BESMER, R. MARKOVICH and H. W. SNYDER, JR. Memorial Sloan-Kettering  
Institute.

A novel oncogene (fos) of an osteosarcoma virus: complete molecular analysis.  
C. VAN BEVEREN, F. VAN STRAATEN\*, T. CURRAN and I. M. VERMA. Salk  
Institute.

Viable and non-viable mutants of Moloney Murine Leukemia Virus. P.  
SCHWARTZBERG, J. COLICELLI and S. GOFF\*. Columbia University.

Genetic analysis of leukemogenicity and tissue tropism by construction of in  
vitro recombinants between molecular clones of Aku and MCF247 viruses.  
C. A. HOLLAND\*, J. W. HARTLEY, W. P. ROWE and N. HOPKINS. Center for Cancer  
Research, MIT.

Molecularly cloned src deletion mutant of Rous Sarcoma Virus is able to induce  
tumors and generate recovered sarcoma viruses in chickens. L.-H.\* WANG and  
G. EDELSTEIN. Rockefeller University.

Expression of the Rous Sarcoma Virus gag and env genes cloned into SV40.

E. HUNTER\*, M. HARDWICK, G. DAVIS, M.-J. GETTING and J. SAMBROOK.

University of Alabama.

Molecular cloning of unintegrated Visna viral DNA and characterization of viral mRNA from infected cells. S. MOLINEAUX\* and J. E. CLEMENTS. Johns Hopkins School of Medicine.

Organization of endogenous proviral DNAs of xenotropic murine leukemia viruses.

M. D. HOGGAN\*, J. F. SEARS, C. E. BUCKLER, W. P. ROWE and M. A. MARTIN. LVD NIAID, NIH.

Organization and stability of endogenous xenotropic MuLV proviral DNA in mouse genomes. M. D. HOGGAN\*, C. E. BUCKLER, J. F. SEARS, W. P. ROWE and

M. A. MARTIN. NIAID, NIH.

## RETROVIRUSES

## SESSION B

(Transcription and Transformation-Specific Proteins)

Tuesday, August 3, 1982  
7:30 P.M.

CHAIRMAN: Karen Beemon

Gag-mos polyproteins encoded by ts110 Moloney Murine Sarcoma virus and its wild type revertant. R. ARLINGHAUS\*, L. STANKER, G. GALLICK and W. KLOETZER. M. D. Anderson Hospital and Tumor Institute.

Role of v-fes and v-fms gene products in malignant transformation. J. R. STEPHENSON\*, J. GROFFEN, N. HEISTERKAMP, F. VERONESE and F. H. REYNOLDS, JR. NCI-Frederick Cancer Research Facility.

Phosphorylating activity of the transforming protein of avian sarcoma viruses UR1 and UR2. P. BALDUZZI\* and C. PERACCHIA. University of Rochester School of Medicine.

Characterization of the phosphorylation sites and the surrounding amino acid sequences of the p21 proteins of Ha-MuSV and Ki-MuSV. T. Y. SHIH, R. DHAR and S. OROSZLAN. NCI, NIH.

PRCII avian sarcoma virus transforming protein has two structurally and functionally distinct forms. K. BEEMON\*, R. MORGAN and G. ADKINS. Johns Hopkins University, Baltimore.

Tissue specific quantitation of pp60<sup>c-src</sup> and the correlation with pp60<sup>c-src</sup> kinase activity in these tissues. P. COTTON\* and J. BRUGGE. SUNY, Stony Brook.

Analysis of mutant and wild type ASV; the association of pp60<sup>src</sup> with two cellular proteins. L. A. LIPSICH\* and J. S. BRUGGE. SUNY, Stony Brook.

Properties of the murine leukemia virus-associated protein kinase activity. Y. YOSHINAKA, R. SHAMES AND R. LUFTIG\*. University of South Carolina School of Medicine.

## RETROVIRUSES

## SESSION C

(Biology and Structure)

Wednesday, August 4, 1982

2:00 P.M.

CHAIRMAN: Ralph Smith

New isolates of the human T-cell retrovirus (HTLV) - Its population distribution and interaction with T-cells. R. GALLO\*, M. POPOVIC, W. BLATTNER and M. ROBERT-GUROFF. NCI, NIH.

Comparative chemical and immunological studies with human T-cells leukemia-lymphoma virus (HTLV) and other type C retroviruses. S. OROSZLAN\*, T. D. COPELAND, M. G. SARNGADHARAN, V. S. KALYANARAMAN and R. C. GALLO. NCI-Frederick Cancer Research Facility.

An avian osteopetrosis virus causes abnormal bone cell proliferation in vivo and in vitro. R. SMITH\*, S. SUTJIPTO and J. GRAY. Duke University Medical Center.

Antigens and novel patterns of persistence of equine infectious anemia virus. R. C. MONTELARO\*, C. J. ISSEL, B. PAREKH and A. ORREGO. Louisiana State University.

Further characterization of the non-immunoglobulin plasma protein that blocks the expression of the bovine leukemia virus genome. P. GUPTA\* and J. F. FERRER. University of Pennsylvania.

B cell expression of endogenous retroviral envelope antigen. M. HALPERN\* and D. EWERT. The Wistar Institute.

A simple, sensitive and reproducible tissue culture neutralization test for mouse antibodies to endogenous ecotropic murine leukemia virus. P. S. SARMA\* and W. P. ROWE. NCI and NIAID, NIH.

Comparison of the glycopeptides of myeloblastosis-associated (MAV) and Rous-associated (RAV) viruses. L. A. HUNT\* and S. E. WRIGHT. University of Louisville School of Medicine.

Expression of feline retrovirus-associated proteins on tumor cells and transformed fibroblasts. M. ESSEX\*, A. P. CHEN, T. H. LEE, K. GANGULY and D. WERNICKE. Harvard University School of Public Health.

Molecular studies on the gag and env genes of RSV. E. HUNTER\*, M. HARDWICK, G. DAVIS, M. J. GETTING and J. SAMBROOK. University of Alabama.

Replicative function and site of integration affect transcription and processing of ASV mRNAs. L.-H. WANG\* and C. GRANDORI. Rockefeller University.

In vitro translational activity of hybrid selected avian sarcoma virus polysomal RNAs. T. A. FICHT\* and C. MARTIN STOLTZFUS. University of Iowa.

Generation of avian retrovirus RNAs: kinetics of splicing and turnover. C. M. STOLTZFUS\* and R. DANE. University of Iowa.

## STRUCTURAL VIROLOGY

Tuesday, August 3, 1982  
7:30 P.M.

CHAIRMAN: Don Caspar

Function of an internal bacteriophage T7 core during assembly of a T7 procapsid.  
P. SERWER\*, S. J. HAYES and R. H. WATSON. University of Texas.

Initiation of P22 procapsid assembly. C. BAZINET, D. SMITH and J. KING\*.  
Massachusetts Institute of Technology.

Subunit interactions in Southern bean mosaic virus: Assembly and  
crystallization of a T=1 capsid. J. ERICKSON, C. ARAD-ZAPATERO and M. G.  
ROSSMAN. Purdue University.

Modeling the reversible swelling and disordering of Southern bean mosaic virus.  
D.L.D. CASPAR\*, J. LI, C. FRICKS and I. RAYMENT. Brandeis University.

The low and resolution structure of cowpea mosaic virus. R. USHA\*, J. E.  
JOHNSON, D. POWELL, T. SCHMIDT, C. HOLLINGSHEAD AND V. MACKENZIE. Purdue  
University.

All pentamer capsid structure of polyoma virus. I. RAYMENT\*, T. S. BAKER,  
D.L.D. CASPAR and W. T. MURAKAMI. Brandeis University.

Crystallographic studies on type I poliovirus. J. HOGEI\*. Harvard University.

Crystallization of human rhinovirus 14: Comparison with poliovirus type I. J.  
ERICKSON\*, E. FRANKENBERGER, M. G. ROSSMANN, S. TOUT, R. MENAPPA and R.  
RUECKERT. Purdue University and University of Wisconsin.

Regulatory role of RNA sequences of vesicular stomatitis virus. A. C. EHRNST\*  
and A. S. HUANG. Children's Hospital Medical Center and Harvard Medical  
School.

Round Table on Switching Mechanisms in Virus Assembly.

Glycoproteins of equine infectious anemia virus: novel lectin affinities and purification procedures. R. C. MONTELARO\*, M. WEST and C. J. ISSEL. Louisiana State University.

Analysis of structural features of specific domains of MuLV env-coded proteins. A. PINTER\* and W. J. HONNEN. Memorial Sloan-Kettering Cancer Center.

Post-translational modification of the transmembrane protein of murine retroviruses. A. M. SCHULTZ\*, A. REIN and S. OROSZLAN. NCI-Frederick Cancer Research Facility.

Comparison of env and gag MuLV antigens at the surface of infected cells. M. SATAKE and R. LUFTIG\*. University of South Carolina School of Medicine.

Synthetic peptide antigens of retrovirus gag and env gene encoded proteins. T. D. COPELAND\*, A. M. SCHULTZ, W. P. TSAI and S. OROSZLAN. NCI-Frederick Cancer Research Facility.

Amino terminal acylation by long chain fatty acids on retroviruses p15gag. L. E. HENDERSON\*, H. KRUTZSCH and S. OROSZLAN. NCI-Frederick Cancer Research Facility.



## TOGAVIRUSES

## SESSION A

(Alphavirus Genome Structure and Replication)

Monday, August 2, 1982  
2:00 P.M.

CHAIRMAN: Jim Strauss

Inhibition of mitosis following Sindbis virus infection of synchronized BHK cells. L. J. MARTIN, D. J. ENGLISH and R. E. JOHNSTON\*. N. C. State University.

Requirement for host transcription in the replication of Sindbis virus RNA. R. S. BARIC\*, L. J. CARLIN, D. W. LINEBERGER and R. E. JOHNSON. N. C. State University.

A cytoplasmic RNA (guanine-7)-methyltransferase in cells infected with Semliki Forest virus. R. K. CROSS\*. Memorial Sloan-Kettering Institute.

Control of alphavirus minus-strand RNA synthesis. S. G. SAWICKI\* and D. L. SAWICKI. Medical College of Ohio.

Sequence analysis of cDNA clones derived from Sindbis virus DI RNAs. S. MONROE\*, B. WEISS and S. SCHLESINGER. Washington University School of Medicine, St. Louis.

Comparative sequence studies of alphavirus RNAs. E. G. STRAUSS\*, C. ARIAS, C. M. RICE and L. DALGARNO. CalTech.

A proposed model for the regulation of alphavirus RNA replication. J.-H. OU and J. H. STRAUSS\*. CalTech.

Ribosome topography in BHK cells infected with sindbis and vesicular stomatitis viruses. R. P. MCGUIRE, B. T. EATON\* and R. KISILEVSKY. Queen's University, Kingston.

## TOGAVIRUSES

## SESSION B

(Viral Proteins, Antigens, and Virus-Host Interactions)

Tuesday, August 3, 1982  
7:30 P.M.

CHAIRMAN: Walter Schlesinger

Biosynthesis of unusual glycopeptides in Sindbis virus-infected CHO cells. S. K. DAVIDSON\* and L. A. HUNT. University of Louisville,

Characterization of virus specified proteins synthesized by type 2 Dengue virus during infection of cultured mammalian cells. G. R. CLEAVES\*. Rutgers University.

Translation of Dengue type 2 virus RNA in Aedes albopictus cell lysates. T. E. RYAN\* and G. R. CLEAVES. Rutgers University.

Replication of simian hemorrhagic fever (SHF) virus: In vitro translation studies. M. LEON\*, M. GRAVELL, O. GUTENSON and R. HAMILTON. NIH.

Identification of subgenomic viral RNAs in cells infected with Japanese encephalitis virus. C. SCHMALJOHN\*, C. D. BLAIR and J. M. DALRYMPLE. Fort Detrick.

Comparison of flavivirions produced by cells from genetically resistant and susceptible mice. M. A. BRINTON\*. The Wistar Institute.

Mechanism of persistent infection of mice with the lactate dehydrogenase-elevating virus (LDV) and the immune response to the virus. W. A. CAFRUNY, J. A. STUECKEMANN, K. KOWALCHYK\*, A. J. WOLSTENHOLME, W. J. SWART and P.W.W. PLAGEMANN. University of Minnesota Medical School.

Antibodies to cryptic determinants in Sindbis virions are cytolytic and protective against Sindbis and WEE. A. L. SCHMALJOHN\*, J. M. DALRYMPLE and G. A. COLE. University of Maryland.

Effect of alphavirus infection on the developing mouse embryo. G. J. ATKINS\*, B. J. SHEHAN and J. CARTER. Trinity College, Dublin, Ireland.

## VETERINARY VIROLOGY

## SESSION A

Monday, August 2, 1982  
2:00 P.M.

CHAIRMAN: Jim Gillespie and Bruce Calnek

Aims and purposes of ASV veterinary virology workshops. F. MURPHY\*. Colorado State University, Ft. Collins.

Progress toward the biochemical identification of antigenic variants of equine infectious anemia virus. C. ISSEL\*, R. C. MONTELARO, W. V. ADAMS, JR., A. ORREGO and B. PAREKH. Louisiana State University.

Persistence of immunity to feline oncornavirus-associated cell membrane antigen (FOCMA) in non-viremic cats. M. ESSEX\*, M. F. McLANE, S. M. COTTER and W. D. HARDY, JR. Harvard School of Public Health.

Restriction endonuclease analysis of bovine herpesvirus-1 DNA. C. D. BLAIR\*. Colorado State University, Ft. Collins.

Bovine herpesvirus 4 (BHV-4): Characterization of DNA restriction endonuclease analysis of European and American strains and comparison with other herpesviruses. F. A. OSORIO\*, D. E. REED and M. J. VAN der MAATEN. Iowa State University.

Genetic variation among pseudorabies virus isolates detected by restriction endonuclease analysis. P. S. PAUL\*, W. L. MENGELING and E. C. PIRTLE. National Animal Disease Center, Ames, Iowa.

Use of DNA fingerprinting for epidemiologic studies of pseudorabies virus. W. C. LAWRENCE\* and D. P. GUSTAFSON. University of Pennsylvania.

Cutaneous cell mediated response of swine to pseudorabies viral nucleocapsids. D. P. GUSTAFSON\* and G. SCHERBA. Purdue University.

A comparison of infectious bovine rhinotracheitis virus isolated from soft-shelled ticks with clinical laboratory isolates. S. C. ST. JEOR\*, B. SEAL and R. TAYLOR. University of Nevada.

Local tissue temperature: A critical factor for bovid herpesvirus 2 replication in bovine skin. G. J. LETCHWORTH\* and L. E. CARMICHAEL. Plum Island Animal Disease Laboratory.

Comparative experiments in preservation of cell-associated and cell-free Wildebeest-derived malignant catarrhal fever virus. D. H. FERRIS and R. J. YEDLOUTSCHNIG. Plum Island Animal Disease Laboratory.

## VETERINARY VIROLOGY

## SESSION B

Wednesday, August 4, 1982  
2:00 P.M.

CHAIRMAN: Hans Storz and Leland Carmichael

Overview of viruses of laboratory rodents and their potential complications for research. P. N. BHATT. Yale University.

Viruses in bovine semen. R. F. KAHRs\* and J. THORSEN. University of Florida, Gainesville.

Morphology of ASF virus during purification of extracellular virus. G. M. SCHLOER\*. Plum Island Animal Disease Laboratory.

Bovine and guinea pig responses to vaccination with cloned FMD VP<sub>3</sub> polypeptides. D. M. MOORE\*, P. D. McKERCHER, B. H. ROBERTSON, D. O. MORGAN, D. YANSHURA, D. DOWBENKO, S. J. SHIRE and D. H. KLEID. Plum Island Animal Disease Laboratory.

Spontaneous cell-mediated cytotoxicity in porcine transmissible gastroenteritis. A. CEPICA and J. B. DERBYSHIRE\*. University of Guelph.

Studies on a canine rotavirus. Y. HOSINO\*, A. R. KALICA, R. G. WYATT and H. B. GREENBERG. NIAID, NIH.

Differences in trypsin-enhanced cytopathogenicity of bovine coronaviruses. J. STORZ\* and J. R. WILLIAMS. Colorado State University, Ft. Collins.

Antiviral effects of PAA and PFA on feline herpesvirus. F. W. SCOTT\* and S. C. TSAI. Cornell University.

Food deprivation in calves and its effects on interferon production viral shedding and immunity. J. M. d'OFFAY\* and B. D. ROSENQULST. University of Missouri.

The effect of iron deficiency in pigs on interferon induced by polyI/poly C. J. H. GAINER\*, M. WASHINGTON and J. DJVE. FDA, Beltsville.

Interferon and immune response of SPF cats experimentally infected with feline herpesvirus. S. C. TSAI\* and F. W. SCOTT. Cornell University.

## VIRAL HEMORRHAGIC FEVERS

Tuesday, August 3, 1982  
7:30 P.M.

CHAIRMAN: Karl Johnson

Production and characterization of monoclonal antibodies to Lassa and Mozambique viruses and their use in studying geographic strain variation. J. B. MCCORMICK, F. ROUMILLAT, L. H. ELLIOTT, S. W. MITCHELL and M. P. KILEY. CDC, Atlanta.

Association of variables important in immunotherapy of Lassa virus infections in animal models. P. B. JAHRLING\*. USAMRIID, Ft. Detrick.

Biological, biochemical and immunological properties of Marburg and Ebola viruses. M. P. KILEY, J. B. MCCORMICK, N. COX and R. REGNERY. CDC, Atlanta.

"CRELM" antibody in nonhuman primates. S. S. KALTER\*. Southwest Foundation for Research and Education, San Antonio.

Hantaan virus - partial characterization of the etiologic agent of Hemorrhagic fever with renal syndrome. J. DALRYMPLE, S. HASTY, S. HARRISON and C. SCHMALJOHN. USAMRIID, Ft. Detrick.

Derivation and characterization of monoclonal antibodies to Hantaan virus. M. E. FRANKO, C. J. GIBBS, P. W. LEE and D. C. GAJDUSEK. NINCDS, Ft. Detrick.

Soluble antigen of Korean hemorrhagic fever virus. D. GOLDGARBER, P. W. LEE, M. E. FRANKO, C. J. GIBBS and D. C. GAJDUSEK. NINCDS, Ft. Detrick.

Antigen and antibody to Hantaan virus, causative agent of Korean hemorrhagic fever, found in domestic rodents in the USA. J. W. LEDUC, G. A. SMITH, L. R. BAGLEY, S. E. HASTY and K. M. JOHNSON. USAMRIID, Ft. Detrick.

Seroepidemiological evidence for the presence of new KHF virus related antigens in Europe and North America. P. W. LEE, D. GOLDGARBER, D. C. GAJDUSEK and C. J. GIBBS. NINCDS, Ft. Detrick.

Immune enhanced death of Macaque monkeys infected with Simian hemorrhagic fever (SHF) virus. M. GRAVELL, W. LONDON, M. LEON, R. HAMILTON and R. BROWN. NINCDS, Bethesda.

## VIRAL MEMBRANES

Monday, August 2, 1982

2:00 P.M.

CHAIRMAN: Sondra Schlesinger

The mechanism of Sindbis virus membrane fusion. A. M. HAYWOOD\*. University of Rochester.

Virus protein function involved in Sindbis mediated fusion from within. E. MANN, J. EDWARDS, K. COOMBS\* and D. BROWN. University of Texas, Austin.

On the mechanism of Sindbis virus fusion with membrane. MING-CHU HSU\*, A. SCHEID and P. W. CHOPPIN. Rockefeller University.

Mutant cells with altered fusion response to polyethylene glycol and paramyxoviruses. D. S. ROOS\* and P. W. CHOPPIN. Rockefeller University.

Fatty acid acylation of viral glycoproteins. M. SCHLESINGER\*. Washington University, St. Louis.

Incorporation of vesicular stomatitis virus glycoproteins into virions and plasmid membranes without processing by Golgi enzymes. D. LYLES\* and H. BOWEN. Bowman Gray School of Medicine.

VSV mosaics as probes for human tumor antigens. L. M. LITTLE\* and A. S. HUANG. Children's Hospital and Harvard Medical School.

Influenza membrane (M) component is a phosphoprotein and behaves anomalously in polyacrylamide gels. A. GREGORIADES\*. Public Health Research Institute of New York.

Assembly and release of the murine mammary tumor virus during inhibition of viral glycoproteins glycosylation. M. H. SARKAR\*. Memorial Sloan-Kettering Cancer Institute.

## VIRAL PATHOGENESIS

## SESSION A

(Models and Mechanisms of Pathogenesis)

Monday, August 2, 1982  
2:00 P.M.

CHAIRMAN: Neal Nathanson and Abner Notkins

Coxsackie B4 virus causes persistent infection in rat insulinoma cells. J. A. FRANK, JR.\*, E. V. SCHMIDT, R. E. SMITH and C. M. WILFERT. Duke University Medical Center.

Role of interferon in virus-induced diabetes mellitus. D. J. GIRON\* and S. P. LYONS. Wright State University.

Isolation of pathogenic viruses from human synovial cells of rheumatoid arthritis patients. W. R. SIMPSON\*, C. A. SMITH, C. W. GODZESKI, R. BOYD, L. MCGINTY, L. D. SIMON and D. HAMERMAN. Rutgers University.

Replication of Coxsackievirus B3 (CVB3) in murine neonatal skin fibroblasts as an in vitro model of CVB3-pathogenicity in murine myocarditis. C. W. LUTTON\*, R. J. GUDVAGEN and D. J. GAUNTT. University of Texas/San Antonio.

Immunological responsiveness of inbred mice to a myocardiotropic Coxsackievirus B3 infection. J. B. GRUN\*, B. J. LANDAU and R. L. CROWELL. Hahnemann University.

Two host genetically restricted, mutually exclusive central nervous system diseases produced by LDV. W. G. STROOP\* and M. A. BRINTON. Wistar Institute.

Host-induced factors in HSV-1 virulence. A. HUBBARD\* and Y. M. CENTIFANTO. Louisiana State University Eye Center, New Orleans.

Comparative virulence of HSV-1 clinical isolates. Y. M. CENTIFANTO\* and H. E. KAUFMAN. Louisiana State University Eye Center, New Orleans.

The initiation of acute herpes simplex virus infection in mice. R. J. KLEIN\* and E. DeSTEFANO. New York University Medical Center.

4:15 P.M.

Roundtable Discussion

Speakers to be announced.



## VIRAL PATHOGENESIS

## SESSION 8

(Viral Receptors - Oncogenesis)

Tuesday, August 3, 1982

7:30 P.M.

CHAIRMAN: Richard Crowell and Karl Lonberg-Holm

Genomic determinants of virulence of murine leukemia viruses. W. A. HASELTINE\*, J. LENZ, R. CROWTHER, S. KLIMENKO, A. SHELDON and A. STRACESKI. Sidney Farber Cancer Institute.

Studies on Friend erythroleukemia cells persistently infected with vaccinia virus. C. FRIEND\*. Mt. Sinai School of Medicine.

The cellular immune resistance concept of DNA virus carcinogenesis. A. M. LEWIS, JR.\*, J. L. COOK and J. B. HIBBS, JR. National Institutes of Health.

8:15 P.M.

Roundtable Discussion

Coxsackievirus-receptor purification. D. KRAH\*. Hahnemann University.

Monoclonal antibody to Coxsackievirus B1 receptor. C. CORD\*. University of New Mexico, Albuquerque.

Reovirus-toxin hybrids to select receptor-negative cells. J. GENTSCH\*. University of Pennsylvania.

Reovirus type 3 strains with antigenically altered hemagglutinins have altered neurotropism. D. R. SPRIGGS\*, R. J. BRONSON and B. N. FIELDS. Harvard Medical School.

Role of membrane glycoproteins in pathogenesis of paramyxoviruses. P. CHOPPIN\*. Rockefeller University.

Acetylcholine receptors and rabies virus. G. TIGNOR\*. Yale University School of Medicine.

EBV-B lymphocytes binding. N. COOPER\*. Scripps Clinic & Research Foundation,  
La Jolla.

Virulence as a reflection of surface determinants in the immune enhancement  
system. S. B. HALSTEAD\* and C. N. VENKATESHAN. University of Hawaii School  
of Medicine.

## VIRAL PATHOGENESIS

## SESSION C

(Virus-Leukocyte Interactions)

Wednesday, August 4, 1982

2:00 P.M.

CHAIRMAN: Marty Hirsch and Michael Oldstone

Roundtable Discussion

## A. Virus-Lymphocyte Interactions

Human T lymphocytes-human leukemia virus. R. C. GALLO\*. National Institutes of Health.

Biochemical block in herpes virus latency in lymphocytes. M. HIRSCH\*. Harvard Medical School.

Human cytotoxic T lymphocytes to herpes virus infected targets. G. QUINNAN\*. National Institutes of Health.

Human cytotoxic lymphocytes to influenza virus infected targets. F. ENNIS\*. University of Massachusetts, Worcester.

## B. Cloned Lymphocytes as Molecular Probes for Understanding Viral Diseases

Cloned B lymphocytes. D. WYLIE\*. University of Nebraska.

Cloned cytotoxic T lymphocytes and T helper cells. J. BENNICK\*. Wistar Institute.

Cytotoxic T lymphocyte-fusomas. R. FINBERG\*. Harvard Medical School.

## C. Viruses Regulating Lymphocyte Function

Virus-induced suppression. R. AHMED\*. Scripps Clinic and Research Foundation, La Jolla.

Virus-induced suppressor cells. R. FINBERG\*. Harvard Medical School.

D. Viruses and Other Leukocytes

Uptake of HSV-antibody complexes by neutrophils. J. W. SMITH\* and J. R. JACHIMOWICZ. Louisiana State University Medical Center, New Orleans.

Macrophages and the induction of antiviral immunity to Sendai virus infection in mice. E. MEDZON\*. London, Ontario.

## UNCONVENTIONAL VIRUSES

## SESSION A

(Epidemiology, Pathogenesis and Immunology)

Monday, August 2, 1982

2:00 P.M.

CHAIRMAN: Joe Gibbs and David T. Kingsbury

Evidence of functional disturbances in the nigro-striate system of hamsters induced by scrapie. J. TAMALET\*, B. MICHEL, J. M. GORDE, H. RIFAI and J. BERT. Laboratoire de Virology, C.H.U. Timone, Marseilles.

5-HT<sub>1</sub> and 5-HT<sub>2</sub> receptors in the brains of scrapie-infected and normal hamsters. M. POCCHIARI\*, T. COSTA, R. G. ROHWER, C. J. GIBBS, JR. and D. C. GAJDUSEK. NINCDS, NIH.

In vitro interaction of scrapie agent with mouse splenocytes and thymocytes. S. M. CALLAHAN\* and R. I. CARP. Institute for Basic Research in Developmental Diseases, Staten Island.

Derivation of hybridomas from scrapie-infected mouse and hamster tissues. M. C. FRANKO\* and C. J. GIBBS, JR. NINCDS, NIH.

Scrapie associated fibrils in Creutzfeldt-Jakob disease. P. MERZ\*, R. A. SOMERVILLE, H. M. WISNIEWSKI, L. MANUELIDIS and E. MANUELIDIS. Institute for Basic Research in Developmental Diseases, Staten Island, and Yale University School of Medicine.

Population density and frequency of Creutzfeldt-Jakob disease. P. BROWN\*, F. CATHALA and D. SADOWSKY. NINCDS, NIH, and Salpetriere Hospital, Paris.

Antigenic variation of visna virus during long term infection of sheep. N. NATHANSON\*, J. KLINE, G. PETTURSSON, A. LUTLEY, G. GEORGSSON and P. A. PALSSON. University of Pennsylvania School of Medicine.

A latent mouse dementia, possibly a model for Alzheimer's disease. J. HOTCHIN\*, F. BAKER, L. HOTCHIN and D. MCFARLAND. New York State Department of Health, Albany.

## UNCONVENTIONAL VIRUSES

## SESSION B

(The Nature of Unconventional Viruses)

Tuesday, August 3, 1982  
7:30 P.M.

CHAIRMAN: David Kohne and Jack Griffith

Entry and subsequent spread of scrapie agent in the CNS. R. H. KIMBERLIN\*. ARC and MRC Neuropathogenesis Unit, Edinburgh.

Partial purification of scrapie infectivity: biochemical analysis of the partially purified fractions. R. A. SOMERVILLE\*, P. A. MERZ and R. I. CARP. Institute for Basic Research in Developmental Diseases, Staten Island.

Altered expression of DNA in scrapie-infected hamster brain. M. T. BORRAS\* and C. J. GIBBS, JR. NINCDS, NIH.

Scrapie inactivation kinetics: explanation for its resistance to inactivation-- a reevaluation of estimates of its small size. R. G. ROHWER\*. NINCDS, NIH.

Scrapie prions and a unique protein copurify. S. B. PRUSINER\*, D. C. BOLTON, M. P. MCKINLEY, D. F. GROTH, K. A. BOWMAN, S. P. COCHRAN and J. J. MAYLED. University of California/San Francisco.

Some characteristics of a purified fraction highly enriched for scrapie prions. M. P. MCKINLEY\*, D. C. BOLTON and S. B. PRUSINER. University of California/San Francisco.

Scrapie: a model infectious protein? T. L. GERMAN\* and R. F. MARSH. University of Wisconsin.

# Animal Virologists

# Members of the American Society for Virology at the time of its first meeting, 1982

Dr. Stuart A. Aaronson	Dr. Joe Esposito	Dr. Alice S. Huang	Dr. S. Millward	Dr. D. T. Sagik
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 Dr. Loy Volkman  
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 Dr. Robert F. Boarath, Jr.  
 Dr. O. F. Bradfute  
 Dr. Myron K. Brakke  
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 Dr. L. N. Binn  
 Dr. J. L. Bittle  
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 Dr. P. D. McKercher  
 Dr. C. Mebus  
 Dr. W. L. Mengeling  
 Dr. O. Narayan  
 Dr. N. Pedersen  
 Dr. C. J. Peters  
 Dr. B. S. Pomeroy  
 Dr. G. C. Poppensiek  
 Dr. G. H. Purchase  
 Dr. W. Rawls  
 Dr. D. Reed  
 Dr. B. D. Rosenquist  
 Dr. D. T. Rouse  
 Dr. F. W. Scott  
 Dr. Leslie Shence  
 Dr. J. Storz  
 Dr. D. W. Trent  
 Dr. T. E. Walton  
 Dr. W. G. Winkler  
 Dr. K. Wolf  
 Dr. G. M. Woode  
 Dr. T. M. Yuill

Dr. Robert Bozarth  
 Dr. Paul Lemke





# DUKE UNIVERSITY MEDICAL CENTER

*Department of Microbiology  
and Immunology  
Office of the Chairman*

August 19, 1982

Dr. Frederick A. Murphy, Dean  
College of Veterinary Medicine  
and Biomedical Sciences  
Colorado State University  
Fort Collins, CO 80523

Dear Fred:

I enclose the minutes of the meeting of the Council of the ASV in Ithaca.

Our next meeting will be held at 1:30 p.m. on Tuesday, September 21, in the office of Harry Ginsberg (Room 1208, Hammer Health Sciences Building, 701 West 168th Street and Fort Washington Avenue). The meeting should be over by 5 p.m. or shortly thereafter.

I have sent out invitations for ASV members to serve on the Meetings and Program Committee, the Membership Review Committee, the Charter and By-Laws Committee and the Finance Committee; and I have asked Ken McIntosh, Al Wood, Bernie Fields and George Miller to chair these committees respectively. Each committee will have two Council members on it, but the Chairman will in each case not be a Council member. When those whom I have invited to serve have replied, I will so inform these four Chairmen and they will then get these committees working. We will also have to appoint a Nominating Committee, but this is not a pressing matter.

Lee Velicer is doing a fine job exploring the suitability of the Michigan State University campus for our meeting next summer. The times that he has suggested are the week of June 26 or the week of July 10, probably the latter. It looks like fairly clear sailing.

Please let me and Harry know whether you will be able to attend the New York meeting. Hoping to see you there, with best wishes,

Cordially,

*Bill*

Dr. W. K. Joklik  
Chairman

WKJ/kge

AMERICAN SOCIETY FOR VIROLOGY/CORNELL UNIVERSITY - August 2-5, 1982

Minutes of Business Meeting  
Statler Auditorium  
3 August 1982  
2:00 p.m.

1. The meeting was called to order by W. Joklik, acting as interim chairman. Approximately 700 virologists were present. F. Murphy was appointed as temporary recording secretary.
2. W. Joklik reviewed the issues leading to the founding of the Society; these included a decline in attendance of virologists at ASM meetings, changes in virologic research and the rise of affinity groups for new specialty subjects, and the expressed wish of virologists to have a national meeting to complement and/or bring together these specialty groups. W. Joklik described the initial planning meetings and the decisions reached which eventually led to this First Annual Meeting of the American Society for Virology at Cornell.
3. W. Joklik described progress toward incorporation of the Society and establishment with the IRS of its tax-free status. These matters will be completed in a few months.
4. Membership qualifications were debated. The rather restrictive scheme of the American Society of Biological Chemists was reviewed by W. Joklik. K. Maramorosch urged that qualifications not require three years of postdoctoral experience. N. Zinder urged that there be no qualifications set--that application is enough evidence of interest. H. Ginsberg commented that membership should be limited to working virologists--that a scholarly society should have some restrictions. N. Zinder responded that a CV review by a Membership Committee would be enough--that restriction to Ph.D.'s and requirement for letters of nomination were excessive. W. Joklik urged that the Society steer a middle course between the ASM and IDSA systems, and that a Membership Committee be established to review the CV and bibliography of applicants (against an established set of criteria). The first Membership Committee would be charged with developing the details of this system, and with establishing categories of Emeritus membership and perhaps Student or Associate Membership. Later in the meeting, the membership was polled (by a show of hands)--there was overwhelming preference for restriction of membership by a minimal review of CV and bibliography of applicants by the Membership Committee.
5. Financial Report: The attached financial statement was discussed--it was made clear that the solvency of the Society at this point is partly due to the fact that many expenditures were not charged. W. Joklik stated that a Finance Committee would be appointed and charged with reviewing financial matters with the Treasurer, setting the annual dues, and soliciting funds from commercial sources.

6. M. Zaitlin reviewed meeting organizational matters, primarily with the intent of developing background information and advice for future organizers. He reminded that the budget for such meetings is large and complex (the First Meeting's budget was \$250-300,000), and that both a professional Conference Center staff and large local group of willing virologists is needed for success. M. Zaitlin and his colleagues were congratulated warmly for the grand success of their efforts.

7. Elections of officers:

The Nominating Committee members were:

W. Schlesinger - Chairman  
G. Breuning  
P. Faulkner  
K. Johnson  
J. Gillespie  
H. Revel

The Committee made the following nominations:

for President:	W. Joklik
for President-elect:	H. Ginsberg
for Council:	R. Haselkorn
	D. Horstmann
	F. Murphy
	P. Schaffer
	M. Summers
	M. Zaitlin


There being no additional nominations from the floor, the above nominees were elected by acclamation. The position of Secretary/Treasurer was left unfilled pending communication with candidates. (NOTE: D. Bishop was appointed to this position on 4 August).

8. Bylaws: D. Horstmann and R. Haselkorn had reviewed the bylaws of the IDSA and had developed a draft set of bylaws which had been distributed to the membership. W. Joklik announced that a further review would be undertaken by an expanded committee, and that the resulting version would be submitted to the membership for approval (by postal vote).
9. Relationship of the Society to ASM: W. Joklik reviewed discussions held with ASM officers toward possible future ties of the Society to a "federation of microbiological societies." The ASM Council will review its relations with other societies at a meeting in October or November. Since many members of the Society will maintain their membership in ASM, and because ASM will continue to publish several journals of interest to virologists, and because ASM is a most effective lobbying voice for microbiology, the development of a "federation" would be supported by the Society. F. Rapp emphasized the importance of ASM lobbying on behalf of microbiology. P. Spier stated that ASM represents microbiologists in general very well, but the membership of our new Society is not typical of the ASM membership. E. Hsiung expressed concern over division of some subjects, such as diagnostic virology, between two meetings each year--she suggested joint meetings with ICAAC, etc.

10. Future Meetings: The venue of future meetings was discussed. W. Joklik outlined possibilities for university campus meetings for the next few years--Michigan State University, Ohio State University, Iowa State University, the University of Connecticut, the University of Michigan, and the University of Wisconsin were mentioned as likely candidate sites. Dr. Plotkin urged consideration of large city sites where movement between sessions might be easier--he also supported E. Hsiung's idea of joint meetings with other Societies. W. Joklik mentioned the problem with campus sites if the Society grows beyond 2000 or so members. H. Ginsberg expressed the extra informality and collegiability of campus venues. The best time of year for future meetings was also discussed. Finally, W. Joklik polled the membership (by show of hands) on these issues--there were overwhelming "votes" for campus venues and for Summer meetings. W. Joklik stated that a Meetings Program Committee would be appointed to implement these wishes for the membership.
11. Affinity group relationships were discussed. W. Joklik suggested that the Society might evolve into a cluster of affinity groups (with Symposia complementing their activities at the annual meeting). P. Vogt urged that the specialty group sessions at the annual meeting would flourish with little help needed, but that the Program Committee should focus particularly on interdisciplinary themes--themes which cut across virus families. M. Oldstone reminded that such emphasis would require venues where movement between sessions could be managed easily. It was also stated that all possible affinity groups must be invited to join the Society--comment was made that phage virologists had not been represented at this first meeting and must still be invited to join. B. Roizman offered support for P. Vogt's idea of emphasis for "cross-cutting" workshop themes as a way to avoid direct duplication of some specialty group meetings held elsewhere.
12. Other Matters:
  - (a) There was a request for Continuing Education credit management. W. Joklik responded that this would be done.
  - (b) There was a suggestion for a newsletter. This was deferred.
  - (c) There was mention of the special problem in 1987 when the International Congress of Virology will be held in Edmonton. It was made clear that there will not be competition, but that perhaps in that year the Society would meet in conjunction with the Congress in Edmonton. H. Ginsberg reminded that Canadian virologists are most welcome in the Society.
  - (d) W. Schlesinger moved a round of applause for the organizing committee.

The meeting was adjourned at 3:10 p.m.

Respectfully submitted,



F. A. Murphy

Balance Sheet  
AMERICAN SOCIETY FOR VIROLOGY, INC.  
July 21, 1982

Income:

903 Membership Dues x \$25.00	\$22,575.00	
*1 Membership Dues x \$30.00 (Canadian)	30.00	
**1 Membership Dues X \$75.00 (Includes \$50 Registration)	<u>75.00</u>	
Total Income		\$22,680.00

Expenses:

*Debit for Canadian check	\$ 9.36	
Charge for checks	14.18	
Check #101 - Society for General Microbiology Announcement of Meeting	122.71	
Check #102 - Milton Zaitlin Expenses	50.00	
Check #103 - Postmaster Stamps	91.50	
Check #104 - W. K. Joklik Visit Ithaca, NY, to plan Meeting of ASV	350.50	
**Check #105 - American Society for Virology Check received for \$75 which included Registration	50.00	
Check #106 - Postmaster Stamps	<u>50.00</u>	
Total Expenses		<u>738.25</u>
Checking Account Balance 7/21/82		\$21,941.75

W. K. Joklik  
Dr. W. K. Joklik

# AMERICAN SOCIETY FOR VIROLOGY, INC.

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*President:*

W.K. JOKLIK  
Department of Microbiology  
and Immunology  
Duke University Medical Center  
Durham, NC 27710

February 28, 1983

*President-Elect:*

HAROLD S. GINSBERG  
Department of Microbiology  
College of Physicians and Surgeons  
of Columbia University  
701 West 168th Street  
New York, NY 10032

Dear Colleague:

*Secretary-Treasurer:*

DR. DAVID H.L. BISHOP  
The University of Alabama  
in Birmingham  
Department of Microbiology,  
520 11th Street, South  
University Station,  
Birmingham, AL 35294

*Councilors:*

ROBERT HASELKORN  
University of Chicago  
DOROTHY HORSTMANN  
Yale University School of Medicine  
FREDERICK A. MURPHY  
Colorado State University  
PRISCILLA A. SCHAFER  
Sidney Farber Cancer Institute  
MAX D. SUMMERS  
Texas A&M University  
MILTON ZAITLIN  
Cornell University

I would like to bring you up to date concerning plans and planning for this summer's meeting of our Society. By now you will have received the letter from the Program Committee informing you that the meeting will take place July 10-14, 1983, on the campus of Michigan State University in East Lansing, Michigan. Its format will be rather similar to last year's: there will be symposia in the mornings, and workshop sessions in the afternoons and evenings. There will be symposia on Viral Genetics, Control of Transcription, Mechanisms of Transformation and Viral Immunology, convened by Joe Sambrook, Sherman Weissman, Harold Varmus and Neal Nathanson, respectively. Among the speakers will be Max Gottesman, Tom Shenk, Bernard Moss, Bob Kamen, Miriam Susskind, Jay Berzofsky, Rob Webster and Rich Lerner, as well as the Symposium convenors.

As for the Workshops, we will follow a different strategy this year. We are calling for the titles of papers to be submitted by March 15; the Program Committee will then group the papers into sessions. A proposed Workshop listing has been sent out, but of course other workshops may be added if enough papers are submitted, and some may be combined with others. Please send titles of papers, together with 100-word summaries of the work to be presented (to facilitate the work of the Program Committee) to David Bishop, by March 15. We know that the date is early, but we are anxious to have the complete program in your hands by the end of May at the latest.

The local Committee, under the leadership of Lee Velicer, is doing a superb job lining up conference rooms and accommodation, and making travel arrangements. This information will be sent out in due course. In the meantime we would like to remind members who have not yet paid their dues for 1983 to do so without delay. Also please remember to invite any of your colleagues with more than three years postdoctoral experience to join the Society by sending their Curriculum vitae and bibliography, as well as a check for \$25, to the Chairman of our Membership Review Committee, H. Alan Wood, Boyce Thompson Institute for Plant Research at Cornell, Tower Road, Cornell University, Ithaca, NY 14853.

We are trying to obtain reduced Journal subscription rates for ASV members. Individual subscriptions to Virology are now available at \$120 per year, a remarkable saving compared with the regular price of about \$500 per year.

February 28, 1983

The Program Committee has looked into the question of when and where to meet in 1984. Details will be finalized within the next several weeks. We are planning this meeting even though the Sixth International Congress of Virology will be held in Sendai in September, 1984, since most of us will probably not travel to Japan. The Society is working to raise funds to subsidize travel to Sendai for as many as possible.

Please call me, or David Bishop, or the Chairmen of any of our Committees (whose membership was sent to you in December), if you have any questions, suggestions or concerns.

Looking forward to seeing you in East Lansing,

Cordially,

*Bill Joklik*

Dr. W. K. Joklik  
President

WKJ/ek