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SOCIÉTÉ CANADIENNE D'IMMUNOLOGIE

# BULLETIN

OF THE CANADIAN SOCIETY  
FOR IMMUNOLOGY

DE LA SOCIÉTÉ CANADIENNE  
D'IMMUNOLOGIE

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## EDITOR'S MESSAGE

The Canadian Society for Immunology (CSI), on behalf of the International Union of Immunological Societies, will host the 6th International Congress of Immunology between 6-11 July, 1986. Canada will be welcoming some 8,000 immunologists from practically every part of the globe. Members of the Congress Organizing Committee have been spending much time and effort in preparing for this mammoth gathering. Toronto is fortunate and proud to be chosen as the site for this once-every-three-year international event. The vibrant multicultural mosaic of Metropolitan Toronto renders it an attractive host city for different national delegates attending the Congress.

Even before the opening of the Congress, the spirit of Canadian hospitality is already evident. This is demonstrated by the overwhelming response of local residents and CSI members to participate in our Hospitality Program. This program, the first of its kind in an international immunology congress, provides free accommodation and assistance for young immunologists from different countries.

In addition to an excellent and well-balanced scientific program for the Congress, the social functions promise to be different and unique. The opening reception at historic Fort York, the barbeque-style Congress dinner at the Harbourfront, and the Cultural Evening at Roy Thomson Hall, featuring top Canadian musicians (p. 5), should provide many pleasant and cherished memories for the participants to take home.

A number of members indicated their appreciation of the informative reporting by our regional correspondents in previous issues of the Bulletin. I hope you will find the regional reports appearing in this issue (p. 9-13) equally informative and interesting. In a number of years from now, these reports will become historical notes reflecting on the gradual development and changes within each immunology centre in Canada. The omission of one or several years of reporting for a centre, of course, will break up the continuity of this annual diary. Therefore, I would again encourage each member to SUPPORT, HELP, and REMIND his/her local correspondent to file a report for the Bulletin every year.

New regional correspondents are needed for KINGSTON and VANCOUVER, because of the relocation of our two former correspondents, J.C. Roder and V.K. Singh. We welcome John Reynolds as our new correspondent for CALGARY. John has already filed his first report (p. 9) and we look forward to his sustained reporting in the coming years.

A good science policy for Canada is essential, if not vital, for the scientific and technological advancement in this country. Needless to say, the overall strategy of government funding for research and development will have an impact, either directly or indirectly, on most scientific investigators and their work. We are fortunate to have Dean Befus of Calgary serving as our representative on the CFBS Science Policy Committee. His report (p. 6) merits our attention and feedback on a very important issue.



6th INTERNATIONAL CONGRESS  
OF IMMUNOLOGY

6<sup>e</sup> CONGRÈS INTERNATIONAL  
D'IMMUNOLOGIE

TORONTO, CANADA  
6-11 July/juillet 1986

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EXECUTIVE COMMITTEE

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B. Cinader, University of Toronto (Chairman)  
K. Charbonneau, National Research Council Canada  
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J. Bienenstock, McMaster University (Fund Raising)  
S. Dubiski, University of Toronto (Hospitality)  
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R. Miller, University of Toronto (Scientific Program)  
H.Z. Movat, University of Toronto (Pre and Post-  
Congress Symposia)

R. Painter, University of Toronto (Exhibits)  
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P.N. Shek, Defence and Civil Institute of Environmental  
Medicine (Social)  
N.R. StC. Sinclair, University of Western Ontario  
(Treasurer/Publications)  
B. Wilkie, University of Guelph (Special Events)

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Our preparations for the 6th International Congress of Immunology are rapidly progressing. The Scientific Program is essentially complete. The booklets, describing our activities should be in the hands of all members of the Canadian Society, by the time this issue of the Bulletin appears. Our attempts to assist a number of younger immunologists to come to Toronto and to participate in the Congress are being welcomed by colleagues from across the world. Our effort to provide free private hospitality for some 100 young immunologists are also accepted in the spirit in which they are being offered.

I feel sure that all Canadian immunologists will not only come to the Congress as participants, but also as hosts contributing to the warmth and helpfulness with which the visitors are being received.

IMMUNOLOGY TODAY has shown an interest in producing an issue of the Journal, which would provide an overview of Canadian Immunology; I would be grateful for suggestions as to the topics which should be selected for attention and would allow us to describe areas of research in which important work of several Canadian laboratories can be summarized.

With best wishes for a Happy New Year and looking forward to seeing you in the summer.

B. Cinader





### TRAVEL BURSARIES FOR CSI STUDENT MEMBERS

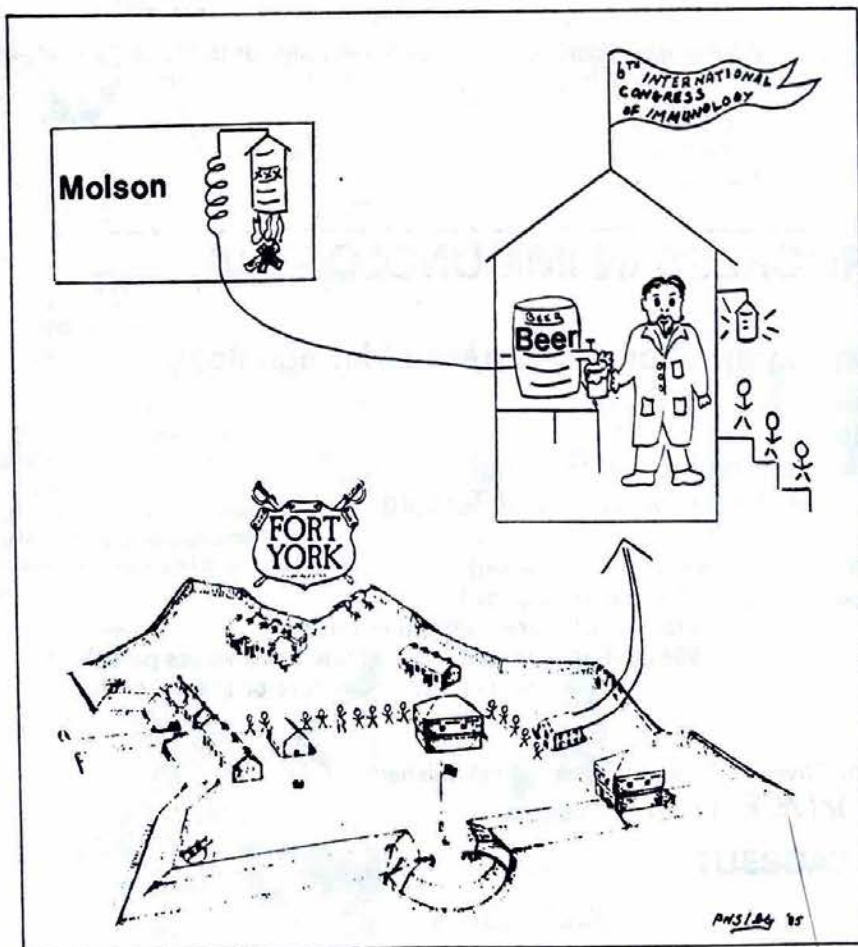
A number of Travel Bursaries will be available to CSI Student Members attending the 6th International Congress of Immunology. Each bursary will cover the cost of the student registration fee plus some travel allocation depending on documented needs and availability of funds.

Applications should be submitted with the applicant's C.V. and a separate letter of recommendation from the applicant's thesis supervisor. Send applications before March 1, 1986 to:

Dr. Pang Shek  
Immunology Group  
Defence & Civil Institute of Environmental Medicine  
1133 Sheppard Avenue West  
Downsview, Ontario  
M3M 3B9

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### **"EFFECT OF BEER ON IMMUNOLOGISTS: AN INTERNATIONAL STUDY"**





## SOCIAL ACTIVITIES

### Opening Reception

Immediately following the opening ceremonies and plenary lecture, Congress participants will be conducted to Fort York by the Fort's Fife and Drum Corps, where the reception will be held. Refreshments, including hors d'oeuvre, wine and beer, will be served in this attractive and historic setting.

Located a short distance from the Convention Centre, Fort York was established in 1793 in a commanding position at the entrance to the harbour of York, as Toronto was known then. Entertainment will be provided throughout the evening by the Fort York Guards in period dress. There are also several buildings and museums, depicting life in the early times, which can be visited. Conducted tours are planned.

Buses will be available on a continual basis throughout the evening to take participants back to main Congress hotels.

### Cultural Evening

An outstanding program featuring well known Canadian musicians will be held on Tuesday, July 8, 1986 at 20:00 hours in Toronto's new Roy Thomson Hall, situated adjacent to the Metro Toronto Convention Centre.

The program will include The Canadian Brass, Liona Boyd and The Bowkyn Trio. (See additional details on the following page.)

The admission fee is \$15.00 per person. Because of limited seating space, tickets will be distributed on a first-come, first-serve basis. Please complete the appropriate section on the registration form.

### Congress Dinner

A delightful open air evening on Toronto's Harbourfront is planned for Thursday, July 10, 1986 at York Quay.

York Quay provides a park-like setting amidst trees and grassy knolls with a magnificent view of the harbour and a backdrop of Toronto's skyline. A dinner will be served with music and dance performed by various artists throughout the evening. York Quay includes galleries, craft centres and a theatre, all of which will be available for the exclusive use of participants.

All participants will be welcome and at no additional cost. The evening will begin at 18:30 hours and ends at 22:30 hours.

## PROGRESS IN IMMUNOLOGY VI

### Sixth International Congress of Immunology

Edited by:

B. Cinader, University of Toronto

R. Miller, University of Toronto

Soft Cover Edition (multivolume set)

December 1986, 1500 pages (approx.)

\$130.00 (US), pre-publication price

\$99.00 (Can.), special reduced rate to Congress participants if ordered before or at time of the Congress

Hard Cover Edition (Price not yet established)



# The SIXTH INTERNATIONAL CONGRESS OF IMMUNOLOGY

- Presents -

## "AN EVENING IN-CONCERT"

with

### THE CANADIAN BRASS

Take two trumpets, add Fred Mills and Ronald Romm, blend in a French horn, a trombone and a tuba with Martin Hackleman, Eugene Watts and Charles Daellenbach. Combine these five remarkable talented musicians with large measures of wit, agility and charm. Garnish with a balanced mixture of the irreverent and the serious and you have the perfect recipe for an evening's musical entertainment at its best! The Canadian Brass enjoys a well-deserved reputation as Canada's hilarious musical ambassadors to the world, having performed to sold-out audiences in North America, Europe, the USSR, Japan, Australia, Saudi Arabia, the Caribbean and the Peoples Republic of China. Without exception, audiences have been thrilled by "The Brass's" music, played with impeccable style and technical fluency and injected with tremendous showmanship and an infectious sense of fun. They are outrageously clever entertainers whose music runs the gamut from classical to jazz. After this evening, they will also be your friends!



### LIONA BOYD



Heralded as 'The First Lady of the Guitar', Liona Boyd has enthralled classical and popular music audiences alike in Canada and throughout the world. Her exceptional sensitivity and impeccable technical skill create an aural poetry which is breathtakingly beautiful. She has toured extensively in Europe, the Far East, the Caribbean and South Pacific and throughout North, South and Central America. She is uniquely versatile, performing frequently on television and recording extensively. Several international composers have dedicated their work to Liona and she has had the honour of performing for the Heads of State of Canada, the USA, Mexico, Britain, France, Germany, Japan, Italy, Jamaica, Trinidad and Cuba. The Canadian Music Industry has honoured her with several Juno Awards as 'Instrumental Artist of the Year' and she is the recipient of the Vanier Award and the Order of Canada in recognition of her cultural contributions. An evening with Liona Boyd is an experience you will long remember.

### THE BOWKUN TRIO

Combining beauty with a sensitive musical style, the Bowkun Trio has captivated audiences with their innovative blend of flute, piano and cello arrangements. Musical visions best describes the unique melange of textures, tonal colours and dynamics which consume the listener. The Trio's members, Sandra Bowkun (flute), Julia Bowkun (cello) and Ellen Meyer (piano) have developed a repertoire embracing musical vision of a multitude of composers. Their unusual performing style, combining whimsy and uncompromisingly high standards of musicianship, emphasizes sheer enjoyment of contemporary classical music as they create an ambience, intimate yet informal, that will invite you to virtually feel a part of that music. It is an invitation you will find difficult to refuse.



ROY THOMSON HALL

TUESDAY

8 July 1986

8:00 PM



## THE SCIENCE POLICY COMMITTEE: A REPORT

A.D. Befus (Calgary)

The Science Policy Committee (SPC) of the Canadian Federation of Biological Societies (CFBS) has two major functions. Firstly, it is to evaluate available information and make recommendations to the Board of The CFBS on Science Policies and the position of the Society. Secondly, the SPC is to establish mechanisms to facilitate communication on science policy among the member societies of the CFBS as well as Government agencies and the general public. The SPC must serve the Board of CFBS so that the Society can effectively and efficiently function for the collective good.

The SPC is headed by the Vice President for Science Policy who is an ex-officio member of the Board of CFBS. The SPC is composed of representatives from each member society of CFBS together with elected ex-officio members. Dr. Stan Wainwright, Department of Biochemistry, Dalhousie University, Halifax, served as the Vice President for Science Policy for a number of years but has recently stepped down. In his place is Dr. William Ovalle, Department of Anatomy, University of British Columbia, Vancouver.

Perhaps the most important member of the SPC is the Science Policy Advisor/Officer, Dr. Clement Gauthier. Dr. Gauthier is a previous MRC Fellow in Medical Physiology who has a permanent position conducting the activities of the SPC from the central CFBS office in Ottawa. The Officer's functions continually evolve, but in general he monitors Government policy on a continuing basis and is to establish close lines of communication with relevant politicians and their senior aids. He advises and educates members of SPC on policies of the Government and various agencies and is to be instrumental in preparing policy papers for CFBS and reviewing documents of Government and relevant agencies.

Since Dr. Gauthier's appointment in January 1985, the activities and organization of SPC have increased markedly and SPC is professionally represented in Ottawa. However, a continual improvement in the approaches of Canadian scientists to federal and local government as well as the public should be a high priority.

Dr. C. Gauthier was instrumental in organizing a Workshop on Science Policy immediately prior to the CFBS meeting in Toronto in June 1985. The CSI was well represented at this Workshop by D. Befus, J. Bienenstock, M. Fournier, B. Pope, A. Sehon, N. Sinclair and B. Underdown. Five major topics were discussed at this meeting, namely: science policy strategy, SPC funding, biotechnology, university-industry interface, and ethics of human and animal experimentation. A number of recommendations evolved from this Workshop and three sub-committees of SPC have been developed. One of these sub-committees is to review finances of SPC and the CSI representative who has agreed to serve on this committee is Dr. A. Sehon, University of Manitoba. The sub-committee on Biotechnology has a CSI representative, Dr. R. Gorczynski, Ontario Cancer Institute, and the sub-committee on University, Government and Industry interface has a CSI representative, Dr. B. Underdown, McMaster



University. These sub-committees will commence their activities in the near future and should provide new focus of energy for SPC and ultimately the policies of CFBS.

As the representative for CSI on SPC since mid-1984, I would like to report on a number of activities to CSI members. A number of letters written on behalf of the CSI have been sent to the Prime Minister's Office, The Honourable Jake Epp, Minister of Health, The Honourable Tom Siddon, Minister of Science and Technology and to other federal politicians. These have included letters relating to MRC funding to all members of the Social Development Committee that dealt with the supplementary budget of MRC, and to Mulroney, McGrath, Epp and Siddon concerning the construction of a Standing Committee of Parliament on Science and Technology. This Standing Committee of Parliament has been requested for a number of years and it appears that it may finally be implemented.

Part of the functions of a society representative on SPC is to review reports and documents that are sent to the SPC from Government and various agencies. For example, the Eastmann report of the pharmaceutical industry, the NSERC Supply and Demand Projections to 1990, the Task Force on Research Infrastructure to NSERC, the Task Force on Federal Policies and Programs for Technology and Development, and the Brief to the MRC on the Allocation of Health Care Resources have been sent to members of SPC. It is difficult to review all these documents and to provide a professional evaluation, in what often represents extremely-short time constraints. It is also impossible to express the opinions of all members of CSI in these endeavours. Thus, when such documents appear a few members of CSI may be polled and appropriate responses forwarded to SPC.

I would be pleased to receive any comments from members of the Society and I would encourage all members to continue to communicate with federal and local politicians, as well as with the general public. Through multi-faceted approaches one hopes to provide an adequate long-term funding base for scientific and technological development in Canada.



**MOVING TO A NEW ADDRESS?**

**KEEP US INFORMED!**



## CANCER CELL: ANTIGENIC MARKERS AND LECTIN SPECIFICITY

S. Dakshinamurti\*  
(Winnipeg)

The project I presented at last year's Canada-Wide Science Fair was an examination of the cancer cell specificity of the lectin wheat germ agglutinin, specifically its effect on the cancer cell surface, and of the possible diagnostic and therapeutic value of this specificity. I did my research at a cell culture lab at the University of Manitoba.

In the late 1960's, Dr. Max Burger (University of Basel) pioneered research on the cancer specificity of WGA. I performed similar experiments using HeLa cells, and human skin fibroblasts as controls. WGA agglutinated approximately 75% of the HeLa cells by reversible (haptenic) binding (determined by counting free cells in a sample using a haemocytometer). The receptors to which WGA binds were found to be involved in contact inhibition; HeLa cells exposed to monovalent WGA (made by treating whole WGA with chymotrypsin) regained contact inhibition. By the same principle, human skin fibroblasts treated briefly with trypsin temporarily lost contact inhibition as cryptic receptors were exposed.

Attempts were made to characterize part of the receptor. Sugars of the N-acetylglucosamine family, WGA's natural specificity, were tested in a competition experiment. Presence of 0.26 mM tri-N-acetylchitotriose (trimer of GlcNAc) caused over 91% of agglutinated cells to be released, compared to 25% and 67% reversal from N-acetylglucosamine and dimer N-acetylchitobiose respectively. One can then safely assume, since the affinities of tri-N-acetylchitotriose may be found on the HeLa cell surface receptor involved in contact inhibition. This may be generalized, in the light of Dr. M. Burger's original experiments, to include most strains of cancer.

I tested some further applications of WGA specificity. Fluorescent dye bound to WGA "tags" cancer cells leaving normal cells untouched -- this would be useful as a fast, albeit cursory, scan for the presence of malignancy in a clinical biopsy. Another application, methotrexate, a drug commonly used in cancer therapy, when bound to WGA shows dramatically increased specificity. This would make a clinically safer and more cost-effective treatment.

Characterization of a cancer cell surface antigen may be useful in developing a specific anti-cancer antibody. If any possible immune reaction to WGA can be circumvented, the lectin itself can be used as a relatively inexpensive "substitute antibody". It can also be noted that the formation of a trimer of N-acetylglucosamine is a significant surface change associated with transformation, an idea useful for further research.

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\* A 17-year-old recipient of the 1985 CSI Perey Memorial Award for her project presented at the Canada-Wide Science Fair organized by the Youth Science Foundation of Canada.

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**FROM OUR REGIONAL CORRESPONDENTS**  
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<u>CALGARY</u>	Dr. J.D. Reynolds * Department of Medical Physiology University of Calgary	<u>QUEBEC</u>	Dr. M. Pagé Département de Biochimie Université Laval
<u>EDMONTON</u>	Dr. T.G. Wegmann * Department of Immunology University of Alberta	<u>SHERBROOKE</u>	Dr. M. Nemirovsky Department of Anatomy University of Sherbrooke
<u>GUELPH</u>	Dr. B.N. Wilkie * Department of Veterinary Microbiology University of Guelph	<u>TORONTO</u>	Dr. R.M. Gorczynski Ontario Cancer Institute
<u>HAMILTON</u>	Dr. J. Bienenstock Department of Pathology McMaster University	<u>VICTORIA</u>	Dr. T. Pearson * Biochemistry Department University of Victoria
<u>LONDON</u>	Dr. R. Mazaheri Transplant Immunology Lab University Hospital	<u>WINNIPEG</u>	Dr. F.T. Kisil Department of Immunology University of Manitoba
<u>MONTREAL</u>	Dr. R. Mandeville Institut Armand-Frappier Université du Quebec		

\* Reporting Correspondents

CALGARY

(J.D. Reynolds)

The study of immunology has undergone a rapid phase of growth in Calgary during the last 3 years. This has been due to 4 major developments. Firstly, the arrival of new members of faculty sponsored by the Alberta Heritage Foundation for Medical Research has led to a substantial increase in the number of investigators whose primary focus is immunology. Secondly, the Immunological Sciences Research Group has been formed. Studies in this group are directed towards autoimmunity, immunodeficiency, inflammatory diseases and neuroimmunology. Thirdly, the Gastrointestinal Research Group decided that one focus of the group would be to investigate the immunology of the gastrointestinal tract. Additional help in achieving this goal came from the establishment of the Intestinal Diseases Research Unit that has been funded



by a major grant from the Canadian Foundation for Ileitis and Colitis. The research interests of those studying the gut include aspects of the basic properties of the immune system as well as the responses during parasitic infections and hypersensitivity reactions. Fourthly, Dr. Ted Zipf of the Oncology Research Group has developed a flow cytometer with 3 lasers that affords the opportunity to do simultaneous multiparameter analysis of cells. The investigators in the 3 research groups that give emphasis to studying the immune system are located in adjacent laboratories of the Health Sciences Centre.

#### Gastrointestinal Research Group

**Befus, A. Dean** (Department of Microbiology and Infectious Diseases)  
Investigations of mucosal immunology in helminth and protozoal infections. Cellular and molecular studies of mast cell heterogeneity in humans and rats.

**Gall, D. Grant** (Department of Paediatrics)  
Gut defence mechanisms in response to injury. Specifically, the intestinal response to IgE-mediated mucosal reactions.

**Reynolds, John D.** (Department of Medical Physiology)  
The physiology of the immune system. Specifically, the development and function of Peyer's patches; ontogeny of B cells; lymphocyte migration patterns; and immune responses in the gut.

#### Immunological Sciences Research Group

**Fritzler, Marvin J.** (Department of Medicine)  
A study of the clinical features of patients with defined autoantibodies. Isolation, purification and characterization of epitopes on intracellular antigens.

**Hart, David A.** (Department of Microbiology and Infectious Diseases)  
Regulation of plasminogen activators and their inhibitors in autoimmune and inflammatory diseases. The role of proteinase regulation in the host-tumor relationship. The influence of inflammatory and anti-inflammatory agents on plasma proteinase regulation.

**Kinsella, T. Douglas** (Department of Medicine)  
The role of natural killer cells and antibody in the interaction between gram-negative bacteria and HLA-B27 in patients with ankylosing spondylitis.

**Matheson, David S.** (Department of Paediatrics)  
Cellular immune regulation and/or dysregulation in normal or patient populations (e.g., hemophilia, immunodeficiency); or as influenced by various mediators. Production of mediators of B cell differentiation by molecular biological techniques.

**McGarry, Ron C.** (Department of Paediatrics)  
The study of cell surface antigens in neuron-substrate and neuron-glia

recognition and adhesion; monoclonal antibody production to myelin-associated glycoprotein; isolation and characterization of inducible neuroblastoma antigens.

### Oncology Research Group

**Zipf, Theodore F.** (Department of Paediatrics)

Biology of hematologic malignancies. Flow cytometry and cell sorting.

### Conferences

Calgary will be the location of the First International Conference on Systemic Lupus Erythematosus. The meeting will be held at the Calgary Convention Centre, June 25-27, 1986. Further information can be obtained from Dr. M.J. Fritzler. Also, the Universities of Calgary and Alberta will host a Conference on Infectious Disease to be held at Panorama Resort, Invermere, British Columbia, May 11-16, 1986. Information on this conference can be obtained from Dr. D.E. Woods. The address for inquiries about both conferences is Faculty of Medicine, University of Calgary, 3330 Hospital Drive N.W., Calgary, Alberta, T2N 4N1.

### EDMONTON

(T.G. Wegmann)

The Immunological community of Edmonton is pleased to welcome a new Assistant Professor of Immunology, Dr. Doug Green, who recently joined us from Yale University. At Yale, he worked with the late Dr. Richard Gershon and became closely associated with the concept of contrasuppression as an important ingredient in the immunoregulation story. Doug intends to continue his work on immunoregulation as a member of the MRC Group on Immunoregulation here at the University of Alberta. This work includes the molecular bases of contrasuppression, based on newly isolated factors and monoclonal antibodies to these factors. He also intends to extend his observations concerning immunosuppression as an immunoregulatory phenomenon following burns in experimental animals.

Dr. Erwin Diener has recently described in the pages of Science a new approach to the classic problem of the magic bullet. By attaching either antigen or antibody to the antibiotic Daunomycin through an acid-sensitive linker, Dr. Diener and his colleagues have achieved specific ablation of target cells in both in vivo and in vitro. The principle they have applied is that the magic bullet complex will be ingested upon reaction with the appropriate target cell, and when the complex reaches the lysosome, the low pH environment encountered therein will release the drug for its toxic effect upon the DNA. To date, the preparations tested have been found to be very effective in inducing tolerance both in vivo and in vitro.

Finally, the reproductive immunologists in Edmonton -- in particular, graduate student Irene Athanassakis -- have been engaging in a collaborative interaction with Drs Paetkau and Bleackley in the Biochemistry department, who are experts on lymphokines. Working under the assumption that placental



growth in vivo may be stimulated by the maternal immune response as suggested by many experiments, these investigators have found that fetally derived placental cells are easily stimulated either by T cell supernatants or by CSF-GM, but not by a variety of other lymphokines including IL-3. These cells respond by proliferation and differentiation to phagocytic function. These experiments are providing possible molecular mechanisms for observations that have now been made in three species, indicating that immunization of the mother against paternal strain alloantigens can lead to improved fetal survival.

#### GUELPH

(B. Wilkie)

Dr. Anne Croy has recently joined the Faculty of Biomedical Sciences in the Ontario Veterinary College where she will continue her research interests in immunological aspects of maternal-foetal interactions. The local availability of MHC-defined miniature pigs offers the possibility of investigating the effects of SLA-specific maternal immune response upon aspects of fetal growth and survival. With Anne in Guelph we now have three of the five members of the 6th International Congress of Immunology Opening Events and Dinner Planning Committee on site which somewhat improves operating efficiency!

Organization of the First International Veterinary Immunology Symposium (1st IVIS) is proceeding with all major aspects in place. Registration material has been mailed and interested CSI members are encouraged to write to B.N. Wilkie if they wish to receive further information. The Scientific Program of the 1st IVIS is described below and participation of colleagues who may not consider themselves primarily "veterinary immunologists" is warmly encouraged.

Members of the Faculty of Chemistry and Biochemistry are investigating aspects of lymphocyte activation. Alan Mellors is studying the role of inositol derivatives in T-cell activation. In collaboration with members of the Immunology Division, Hospital for Sick Children, Toronto, he is investigating the effects of interleukins and tumour promoting substances on the phosphoinositides and their turnover. He is also continuing studies on the lipid-metabolizing enzymes of African trypanosomes.

Frances Sharom is investigating lymphocyte surface events following interaction with mitogenic lectins. Behaviour of glycoproteins and glycolipids, especially gangliosides, are being studied in both the intact membrane and in lipid bilayer vesicles containing reconstituted components having fluorescent or spin-labelled carbohydrate. The objective is to understand factors which are responsible for generating and modulating co-operative binding responses associated with mitogenesis. Related studies are attempting to elucidate the mode of action of immunosuppressive exogenous gangliosides and glycophorin based upon observed association of suppressed immune response and increased serum gangliosides in tumour-bearing individuals. Possible effects of gangliosides include interference with mitogen stimulated  $Ca^{++}$  influx, production of IL-2 or expression of IL-2 receptors.

## VICTORIA

(T. Pearson)

The immunological infrastructure at UVIC is in a state of growth and change. In the past year, several labs not normally involved in immunological research of any kind have initiated the use of antisera and monoclonal antibodies for studies in cellular differentiation and for the identification and structural characterization of various biomolecules. Thus, the use of immunology as a tool rather than the study of immunology per se seems to be the direction for several UVIC labs at present. In the Department of Biochemistry and Microbiology, the immunochemical and biochemical structural analysis of various bacterial (Drs T.J. Trust, J.T. Buckley, W.W. Kay) and parasite (Drs R.W. Olafson, T.W. Pearson) antigens continues to gain momentum reflecting the strong biochemical expertise of the faculty. The recent acquisition of a gas-phase protein sequenator and DNA and peptide synthesizers complement the established HPLC and monoclonal antibody technologies for a complete microchemical facility for antigen analysis.

The Department of Biochemistry and Microbiology has also seen some changes in job descriptions of some of our personnel. Dr. Al Matheson, our chairman for the past 8 years, has become Dean of Science at UVIC. Dr. Bill Kay was named head of the department. Both have been known to use antibodies and thus we hope will continue to support our immunological components from their pillars of power. Dr. Terry Pearson is on study leave in Nairobi, Kenya (trypanosome antigens) for one year. Dr. Michael Clarke, a grantee of the Rockefeller Foundation currently in the molecular parasitology lab, has sadly (for us) accepted a position as assistant professor in the Department of Immunology at the University of Western Ontario, London starting in early 1986. We wish Michael well in his new position and hope that our labs develop strong ties.

December is when we expect to occupy the new Engineering and Life Sciences Building, ending our long occupation of the World War II army huts. Thus, feelings are positive for the new year.

In addition, several new research grants have opened the way to international collaboration; thus we will be hosting several graduate students and exchange personnel from East Africa and India.



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**DRAWBACKS & QUOTES**  
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Prayer of an Immunology Graduate Student

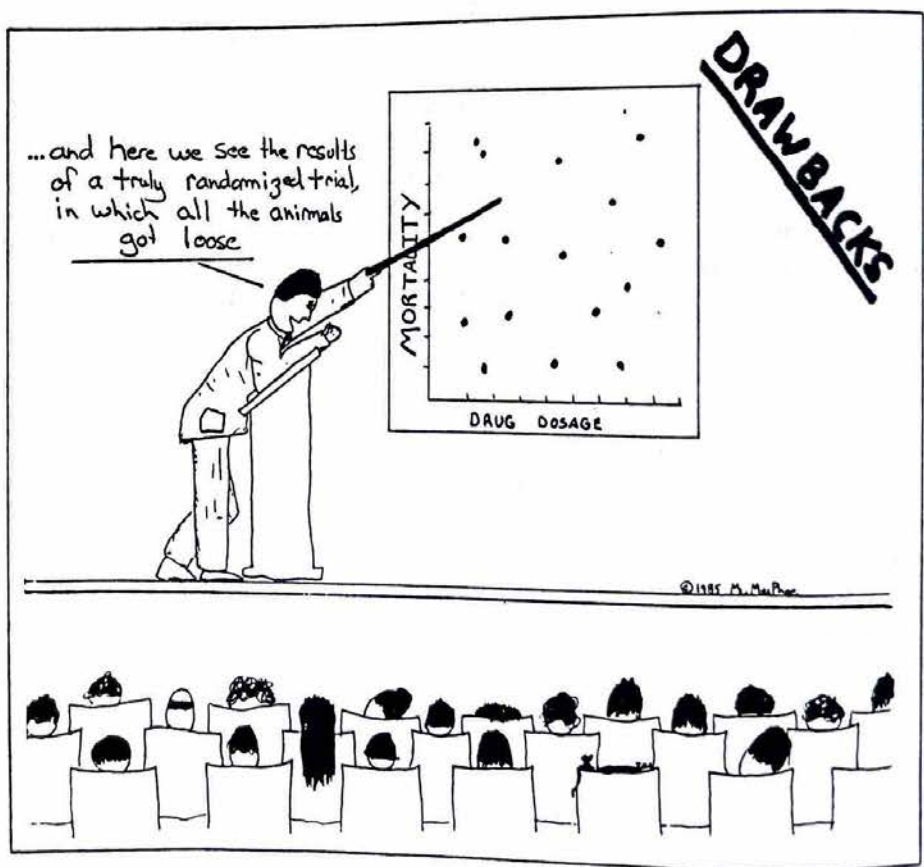
Our father, who art in thymus  
Hallowed by thy lymphokines  
A pathogen come, thy will be done  
In vitro as it is in vivo.

Give us this day our delayed hypersensitivity  
And forgive us our phagocytosis  
As we forgive those who phagocytise us.

And lead us not into antigenic sin  
But please deliver us from migration inhibition tests  
For thine is the MRC grant, labwork and thesis  
Forever.



Lyn Brundage  
(Guelph)



CANADIAN SOCIETY FOR IMMUNOLOGY

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1985-1986

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CANADIAN SOCIETY FOR IMMUNOLOGY

MINUTES OF THE FIFTH ANNUAL GENERAL MEETING

University of Toronto, Toronto

June 20, 1985

G5.1 Minutes of the Fourth Annual General Meeting

G5.1.1 N. Sinclair asked for approval of the Minutes of the Fourth Annual General Meeting held on June 21, 1984 at the University of Saskatchewan, which had been circulated to all members, after determining if there were any errors or omissions.

G5.1.1.1 Resolution: That the minutes be approved as circulated.

Mover - E. Potworowski

Second - J. Bienenstock

CARRIED

G5.2 International Congress of Immunology

G5.2.1 Report of B. Cinader

Dr. Cinader reported that the organization of the 6th International Congress of Immunology is proceeding well. The space has been reserved in the Toronto Convention Centre and hotels and an adequate program has been planned. However, there is a problem of access for younger Immunologists from developing countries. Our fund raising efforts are partly devoted to this goal and it is hoped that some \$120,000 will be made available in various forms to allow National Immunological Societies to select young, promising scientists for attendance at the Congress. Our assistance, in this area, will be further increased by free hospitality for some 100-150 young visitors. We also hope to find means to assist Canadian graduate students, so that they can take part in the Congress. Anyone who can assist in finding travel money for these individuals should contact Dr. S. Dubiski.

Donations have been obtained from industry ranging up to \$50,000. If anyone has contacts in industry, their names should be forwarded to J. Bienenstock. The planning of the Social Program is proceeding. The major social occasion will take place at the Waterfront or as an alternative, at Fort York. Anyone who wishes to have input, should contact B. Wilkie. N. Sinclair has prepared the second mailing and it will be sent out soon. The organizers wish to have Canadian Immunologists meet with small groups of people and hope that the CSI members will volunteer for this.

All CSI members are encouraged to attend this important function.

A short discussion followed the report. It was clarified that all the donations have been put into interest bearing accounts and that a

contract has been signed with the National Research Council and International Union of Immunological Societies. The contract specifies how the profits are to be divided among the CSI, NRC and IUIS. The membership was assured that the CSI will not suffer if the Congress is not profitable. The NRC will absorb any loss.

It was explained that there will be a reduced registration fee for graduate students and that residences have been reserved at the University of Toronto and York University which will have reasonable rates. However, these have not been reserved specifically for Canadians but rather are obtained in order of registration. Therefore Canadians who wish to use these facilities must register early.

G5.2.2 H. Rode stated that the Department of Revenue has consented to the accumulation of funds by the CSI until the 1986 taxation year.

### G5.3 CSI Scientific Meetings

G5.3.1 N. Sinclair restated that the CSI Annual Scientific Meetings which have been held in conjunction with the CFBS Scientific Meetings have been poorly attended and that there is dissatisfaction with the present format. In 1986, the CSI is the host of the 6th International Congress of Immunology and the CSI Scientific Meeting will be held as part of the Congress. It is also hoped that a profit will be realized from the Congress. Discussions were started in Saskatoon as to the type of scientific meeting that would be attractive to CSI members. It was felt that a small group meeting similar to the Honey Harbour Meetings which allows interchange of ideas would be suitable to the CSI members. The Council passed a motion recommending that the CSI have a new format for the Scientific Meetings but on a trial basis.

G5.3.2.1 Resolution: That the CSI Annual Scientific Meeting be held separate from the CFBS Meeting in 1987 and 1989 (and present with the CFBS in 1988) on a trial basis.

Mover - J. Bienenstock

Seconder - P. Shek

A long discussion followed:

J. Bienenstock expressed a concern that the clinicians are not involved in the CSI meeting. He was pleased to have a trial. The intent is not to pull out of the CFBS; indeed it is ill advised to do so. It is especially important to remain part of the CFBS because of Science Policy.

A. Sehon spoke against the motion. The CSI from its inception has been associated with the CFBS. The CSI joined the CFBS not only for Science Policy but also for the services offered by the CFBS (e.g., secretarial help). It is always a problem to attract clinical immunologists. They have not known how to proceed and at the moment are associated with the Royal College. The way to attract them is to have an attractive Scientific Program. The CFBS Meeting is also a good



opportunity for graduate students to meet a wide range of scientists and to present their findings. In the U.S., the immunologists tried separate meetings but have stayed with FASEB. The CSI has much in common with the CFBS.

J. Bienenstock was sympathetic to the views expressed; however, he came to the first few meetings but then stopped attending. This is a common problem: senior immunologists do not attend the CSI Meetings which is short-changing our graduate students. There is also a problem of geography in Canada. There is poor attendance when the meeting is held in smaller centres. That is why the meeting should be held in one or perhaps two locations; one in the east and one in the west.

M. Baines stated that there often seems to be conflicts between the CSI Meetings and other scientific meetings and the immunologists do not attend the CSI Meeting. He suggested that the CSI have an off-season meeting in addition to the CFBS Meeting.

N. Sinclair asked for a vote: if two meetings were held, how many of the members present would attend:

- 1) both - 3
- 2) CFBS - 4
- 3) CSI - majority of members

J. Gauldie reiterated that there is not any intention to withdraw from the CFBS; a format has to be found which attracts and allows Canadian immunologists to talk to one another.

R. Miller stated that in the Honey Harbour model, the meeting is associated around themes and asked what would be the format of the proposed meetings.

J. Bienenstock replied that there would be two or three themes with symposia and presentations.

H. Tabel spoke for the motion. He felt that what has been lacking from the meetings has been interaction between people. This is one reason that our members don't come.

R. Phillips supported the motion. The CSI lacks a sense of identity. People stay away because of the scientific content. However, he stated there is a significant financial aspect to the proposed format.

B. Wilkie also supported the motion. Young immunologists do not see any reason to join the CSI. This is an experiment.

J.M. Schiff liked the idea but asked about those individuals who are not basic immunologists but are in peripherally related fields. He suggested that the CSI meeting should be held just before or after the CFBS Meeting.

A. Sehon stated that when the meeting is larger than 150 people the proposed format is not suitable.

D. Chow did wish to meet with the CFBS because of the interdisciplinary nature of immunology and suggested that a sense of identity could be fostered by having all the immunologists stay in one residence or by designating a pub for immunologists.

N. Sinclair replied that the format of the CFBS is not conducive to this and that it may not be easy to arrange.

D. Chow retorted that it may be easier than organizing our own meeting.

J. Bienenstock reported that the envisioned cost of such a meeting would be \$30,000. The registration fee would be \$100 for members and \$50 for students. With donations, the total costs to the Society could be less than \$3,000 above present expenses which could hopefully be met from the profit realized from the International Congress.

J. Gauldie suggested that a university campus could be used which would reduce expenses.

Amendment to Resolution: that a way be found to meet in a limited way with the CFBS.

Mover - M. Schiff

Seconder - A. Sehon

B. Cinader stated that the meeting has to be on the boundaries of the CFBS. If the meeting is held separately, it must be classified as an International meeting.

Vote on amendment.  
CARRIED

Vote on resolution.  
CARRIED

#### G5.3.2 Further Discussion on CSI Meetings

R. Phillips agreed with D. Chow that the immunologist needed a place to gather at the CFBS Meetings. He asked if the LOC in Laval could be directed to identify an Immunology Pub and another area for immunologists to meet.

All the members agreed with this directive.

J. Gordon stated that he voted for the experiment because it had the potential to increase attendance and to focus on specific themes. However, he would like the organizers to suggest alternatives as to how they would carry out their mandate.



- G5.3.2.1 Resolution: that the President (J. Bienenstock) form a small working committee to bring a number of alternative plans to the membership.

Mover - J. Bienenstock

Seconders - L. Pilarski

CARRIED

G5.4 Clinical Immunology

- G5.4.1 N. Sinclair stated that a subcommittee under the leadership of F. Paraskevas had been struck with the mandate to determine how the immunological tests performed in the hospitals could be approved and under the control of immunologists. The Council had passed the following resolution for approval by the membership.

- G5.4.1.1 Resolution: that the Committee on Clinical Immunology be empowered to approach the Canadian Society for Clinical Chemistry, the Canadian Association of Pathologists or their American counterparts to open discussion on the provision of expertise by the CSI for accreditation in Clinical Immunology.

Mover - H. Rode

Seconders - J. Gauldie

A. Sehon said that this proposal has been discussed over the years and a committee was required to suggest how immunological tests can be performed by immunologists and not by members of other disciplines. This accreditation would give immunologists status and would ensure that the tests are performed according to the latest standards. In addition, this provides employment for immunology graduates.

J. Bienenstock reported that only 15-20 positions are available in Canada. This number is not sufficient to support its own society and thus interaction with other Societies in Canada and/or U.S. is necessary. The subcommittee is to determine the best procedures to follow.

Vote on motion.  
CARRIED

G5.5 President's Report

- G5.5.1 N. Sinclair reported that the CFBS Office has been centralized in Ottawa and that the office may be able to offer the CSI services such as collection of levies and preparation of membership directory.

Science Policy has had a checkered record but in the past year Science Policy initiatives have increased which is partially due to the hiring of a Science Policy Officer.

B. Cinader stated that the CSI needed an effective Science Policy Committee to develop our own policy.

N. Sinclair replied that part of the problem with Science Policy in the past has been indecision within the CFBS Science Policy Committee; a new CFBS Vice-President for Science Policy will be appointed. The CSI has an excellent and effective representative in the person of D. Befus.

G5.5.2 The CSI thanked D. Befus for his effective work as CSI Science Policy representative.

G5.5.3 N. Sinclair reported that the MRC 5 year plan is due for renewal in the fall and that the government wanted the MRC to show how its support for research has resulted in commercial exploitation or justify why it has not done so. The CFBS Executive felt that the MRC was not receptive to this idea. Therefore, D. Befus was preparing a document describing not only our current successes but also showing how past research has provided the basis for this success. This document will be forwarded to the MRC in the fall. The six areas to be highlighted are: i) reconstitution of immune deficiencies, ii) transplantation and autoimmunity, iii) diagnostics, iv) cancer immunology (CEA), v) reproduction and infertility, and vi) allergy.

G5.5.3.1 Resolution: that a document also be prepared for the 6th International Congress of Immunology which describes the contribution of Canadian Medical Research to health care and to society based on support received from the MRC, NCI, NHRDP and other funding agencies.

Mover - B. Cinader

Seconder - E. Potworowski

CARRIED

It was suggested that D. Befus be asked to prepare this document. He is to pick his editorial board and encouraged to also include francophones.

#### G5.6 Secretary-Treasurer's Report

##### G5.6.1 Membership

H. Rode reported that 17 new members had been admitted to the Society: 9 full members and 8 student members. There were two student members who became full members, 6 resignations and 2 deaths. In addition, the following 17 members have not paid their dues for 3 or more years and all have been sent registered letters. The Council recommended that their names be deleted from the membership list.

##### Deletions:

R.J. Douglas, Guelph, Ontario  
R.C. Fitzsimmons, Vancouver, B.C.  
P.Z. Goldenberg, Toronto, Ontario  
L. Gyenes, Montreal, Quebec  
D-P. Hartmann, Washington, D.C.



Deletions cont'd

K.A. Karim, Vancouver, B.C.  
S. Kasakura, Japan  
J. Krupey, Montreal, Quebec  
E.M. Liburd, Edmonton, Alberta  
C. Lovett-Mosely, Toronto, Ontario  
K. Moore, London, Ontario  
A.S.A. Pang, Ottawa, Ontario  
N.S. Ranadive, Toronto, Ontario  
G. Richer, Quebec, Quebec  
B.H. Samagh, Ottawa, Ontario  
I. Szymanska, Toronto, Ontario  
J.A. Wakkery, Halifax, Nova Scotia

G5.6.1.1 Resolution: that the recommendation of Council be approved.

Mover - H. Rode

Seconders - V. Micusan

CARRIED UNANIMOUSLY

G5.6.2 Financial Statements

H. Rode presented the audited financial statement for the year ending May 31, 1984 which had been previously circulated and an interim statement for the year 1984/85. Revenues amounted to \$26,264.64 and expenditures of \$27,345.49 resulting in a deficit of \$1,080.85. Included in the revenue is the monies (\$1,058.12) collected for the CSI Social Event, while the expenditures included the \$5,000 risk capital for hosting the 6th International Congress of Immunology which was paid to the NRC upon signing of the contract.

G5.6.2.1 Resolution: that the financial statements be accepted.

Mover - H. Rode

Seconders - M. Baines

CARRIED UNANIMOUSLY

G5.6.3 Membership Dues

H. Rode reported that the Congress levy has raised approximately \$6,000 which is the amount of money expended for the extraordinary expenses for hosting the 6th International Congress. The levy is therefore no longer required. However, in order to balance the 1985/86 budget an increase in the CSI levy is necessary. The Secretary-Treasurer has requested more secretarial help; therefore this item has been increased in the budget to \$2,500.

G5.6.3.1 Resolution: that the CSI levy be increased to \$24.60 per year.

Mover - H. Rode

Seconders - M. Baines

CARRIED UNANIMOUSLY

#### G5.6.4 Corporate Membership

H. Rode reported that the changes in the By-laws which created a category for corporate membership had been approved by the Minister of Consumer and Corporate Affairs and that the changes to the rules and regulations which had been passed in 1984 were legal.

G5.6.4.1 Resolution: that the corporate membership levy be \$300.

Mover - H. Rode

Seconders - M. Fournier

CARRIED UNANIMOUSLY

#### G5.6.5 Student Membership

E. Potworowski was surprised to learn that student members were not allowed to vote.

G5.6.5.1 Resolution: that student members should have their rights extended as far as possible barring legal and financial problems.

Mover - E. Potworowski

Seconders - S. Dubiski

CARRIED UNANIMOUSLY

G5.6.6 Brian Barber was thanked for his organization of the 1985 meeting in Toronto.

H. Rode and N. Sinclair were also thanked for their role in the CSI.

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## AUDITORS' REPORT

The Members of  
THE CANADIAN SOCIETY FOR IMMUNOLOGY

We have examined the balance sheet of The Canadian Society for Immunology at May 31, 1985 and the statement of financial activities for the year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests and other procedures as we considered necessary in the circumstances, except as explained in the following paragraph.

The Canadian Society for Immunology derives its revenues from sponsorship and membership fees which are not susceptible to complete audit verification. Accordingly, our verification of these revenues was limited to accounting for the amounts recorded in the books of the Society.

In our opinion, except for the effects of adjustments, if any, had sponsorship and membership fees been susceptible to complete audit verification, these financial statements present fairly the financial position of The Canadian Society for Immunology as at May 31, 1985, and the results of its financial activities for the year then ended in accordance with the accounting principle described in Note 1 to the financial statements applied on a basis consistent with that of the preceding year.

Montreal, Quebec  
June 14, 1985

*Spicer MacGillivray*

CHARTERED ACCOUNTANT

THE CANADIAN SOCIETY FOR IMMUNOLOGY  
STATEMENT OF FINANCIAL ACTIVITIES  
FOR THE YEAR ENDED MAY 31, 1985

	<u>1985</u>	<u>1984</u>
<b>REVENUES</b>		
Membership fees - including levies to the Canadian Federation of Biological Sciences & Inter- national Union of Immunological Sciences	\$ 18,334	\$ 15,600
Interest	895	494
Bulletin	900	200
CSI Symposia (CFSB)	3,000	-
Journal	2,101	-
CSI Social Event	1,058	-
Sponsorships and donations received re: the 6th International Congress	79,861	-
Other	377	15
	<u>106,526</u>	<u>16,309</u>
<b>EXPENSES</b>		
Levies		
Canadian Federation of Biological Sciences	9,987	7,272
International Union of Immunological Societies	722	570
Meetings		
CSI Symposia	4,654	2,500
International Symposium London	1,000	-
Funds advanced to the National Research Council re: the 6th International Congress	5,000	-
Printing and copying	600	951
Office and postage	1,310	788
Dinner	1,933	-
Kyoto expenses	-	593
Typing	600	325
Professional fees	631	355
Youth Science Fair Donation	-	250
Youth Science Foundation - Membership	75	75
- Perey Award	108	108
Canadians for Health Research		
- Membership	100	100
Bulletin and other	380	752
Bank charges	317	53
	<u>27,417</u>	<u>14,692</u>
<b>EXCESS OF REVENUES OVER EXPENSES FOR THE YEAR</b>	<u>\$ 79,109</u>	<u>\$ 1,617</u>

See Auditors' qualified report dated  
June 14, 1985.

Spicer MacGillivray  
Chartered Accountants



**THE CANADIAN SOCIETY FOR IMMUNOLOGY**  
**STATEMENT OF FINANCIAL ACTIVITIES**

AS AT MAY 31, 1985

**ASSETS**

	<u>1985</u>	<u>1984</u>
<b>CURRENT</b>		
Cash (Note 2)	\$ 6,698	\$ 8,518
Term deposits (Note 2)	79,929	---
Advance on CSI Symposium	<u>2,000</u>	<u>1,000</u>
	<u>\$88,627</u>	<u>\$ 9,518</u>
 <b>SURPLUS (Note 2)</b>		
BALANCE - Beginning of year	\$ 9,518	\$ 7,901
Excess of revenues over expenses for the year	<u>79,109</u>	<u>1,617</u>
BALANCE - End of year	<u>\$88,627</u>	<u>\$ 9,518</u>

**NOTES TO THE FINANCIAL STATEMENTS**

FOR THE YEAR ENDED MAY 31, 1985

**1. SIGNIFICANT ACCOUNTING POLICY**

The Society accounts for all revenues and expenses on the cash basis.

**2. 6TH INTERNATIONAL CONGRESS**

During the year, the Society entered into an agreement with the National Research Council of Canada (NRC) to co-sponsor the 6th International Congress of the Union of Immunological Societies.

Under the terms of this agreement, the Society will share in the net profits of this event to the extent of 28% for the first \$70,000 and 50% thereafter. In the event of losses occurring, the Society is only liable for the first \$5,000 after which 100% will be borne by the NRC.

During the year, the Society collected \$79,861 in sponsorships and donations re: this congress (and earned \$400 in interest on these funds), according to the terms of the sponsorship agreement, these funds must be transferred to the NRC when requested to offset the expenses of the Congress. As at May 31, 1985, \$80,261 of the funds collected are restricted as to their use by the Society.

(See auditors' qualified report dated June 14, 1985)

THE CANADIAN SOCIETY FOR IMMUNOLOGY  
SUPPLEMENTARY INFORMATION

MAY 31, 1985

STATEMENT OF AMOUNTS ACCUMULATED FOR THE 6TH INTERNATIONAL CONGRESS

Total accumulation as at 31/5/84 (including disbursements)	-
Add: amounts accumulated during the current fiscal year	79,861
Income earned in year in respect of total accumulated property	<u>400</u>
Total accumulation to-date	\$80,261
Less: Disbursements made to-date for the purpose of accumulation	<u>-</u>
Balance to be disbursed in approval period	<u>\$80,261</u>

Spicer MacGillivray  
Chartered Accountants



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BEST WISHES FOR 1986.

**KALLESTAD CANADA INC.**