
# BULLETIN

## CANADIAN SOCIETY FOR IMMUNOLOGY

## SOCIETE CANADIENNE D'IMMUNOLOGIE

April, 1991.

V. 22, No. 1.

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*Editorial policy*: Contributions from Full or Student members of the Society are encouraged. As most members are capable of reading English and French with reasonable facility, the choice of language of submission is left to each contributor. As was the policy under the editorship of Dr. Fournier, items will be published in the language(s) in which they were contributed. The Bulletin will be published in June, September, December and March. Deadline for receipt of copy is the 7th of the month prior to publication. Submissions, or address corrections, should be sent to: Kent T. HayGlass, Department of Immunology, University of Manitoba, 730 William Ave, Winnipeg, Man. R3E 0W3. Phone 204 788 6509. FAX 204 772 7924.

*Politique éditoriale*: Les membres réguliers et les membres étudiants de la SCI/CSI sont encouragés à soumettre des textes pour publication dans le Bulletin. Comme la plupart des membres sont capables de lire aussi bien l'anglais que le français avec une facilité suffisante, les auteurs pourront s'exprimer dans l'une ou l'autre langue. En accord avec la politique mise en place sous la direction du Dr Fournier, les articles seront publiés dans la langue utilisée par l'auteur. Le Bulletin sera publié en juin, septembre, décembre et mars. la date de tombée pour la réception d'un article à paraitre dans le prochain numéro sera le septième jour du mois précédant, soit trois semaines avant la date effective de parution. Les contributions ainsi que tout avis de changement d'addresse devront etre addressés à: Kent T. HayGlass, Department of Immunology, University of Manitoba, 730 William Ave., Winnipeg, Man. R3E 0W3. Numéro de Téléphone: 204 788 6509. Numéro de télécopieur: 204 772 7924.

CANADIAN SOCIETY FOR IMMUNOLOGY

SOCIETE CANADIENNE D'IMMUNOLOGIE

APPLICATION FOR MEMBERSHIP

DEMANDE D'ADHESION

Name of Applicant/Nom du Candidat

_____

Position/Poste

_____

Institution

_____

Mailing Address and Telephone Number/Addresse Postale et Numero de Telephone

_____

Signature of Applicant (Date)

Signature du Candidat (Date)

_____

Sponsors (2 Members of The Canadian Society for Immunology)
Parrains (2 Membres de la Societe Canadienne d'Immunologie)

1. Name/Nom_____ 2. Name/Nom_____

Address/Adresse_____ Address/Adresse_____

Signature_____ Signature_____

Category/Categorie

1. Member/Membre _____ 2. Associate Member/Membre Associe_____

3. Emeritus Member/Membre Emerite_____ 4. Student Member/Membre Etudiant_____

_____

Applicants should append a curriculum vitae and a list of publications with full titles. 11 complete applications with appendices should be submitted. Student applicants need only submit one complete application with appendices. Applications will be considered in November and March.

Les candidats doivent joindre un curriculum vitae et une liste des publications incluant les titres. Veuillez completer ce formulaire, obtenir les signatures des parrains, et le faire parvenir en 11 copies (y compris les appendices). Les etudiants doivent soumettre une seule copie du demande complete avec l'information additionelle requise. Les demandes d'adhesion serant examinees, en Novembre et Mars.

To/A: CSI c/o Dr. J. A. Wilkins
RDU Research Laboratory
RR 014, 800 Sherbrook Street
Winnipeg, MB
R3A 1M4

Student Poster Awards

Committee: K. HayGlass (Manitoba), W. Lapp (McGill), M. Letarte (Toronto), J. Reynolds (Calgary), H.-S. Teh (UBC), R. Miller - Chair (Toronto)

Contestants - 62 (63 posters)

Winners:

| | | |
|---|---|---|
| First Prize (B.D.) | J. Desbarats (poster 1-12) | McGill |
| Second Prize (Cedarlane) | B. Dixon (poster 13-7) | Dalhousie |
| Third Prize (CSI) | C. Yu (poster 3-2) | Toronto |
| Honourable Mention | T. Kion (poster 17-12) | UBC |

*As a means of increasing input by student members of the CSI/SCI, they were asked to describe their academic backgrounds, current research interests, what they saw themselves doing next and what they thought was the biggest challenge facing graduate students today.*

After graduating from the Interdepartmental Immunology program at McGill University in June 1990, I entered the Department of Physiology as a Master's student in the laboratory of Dr. W.S. Lapp. Research in the lab focuses on graft-versus-host diseases (GVHD), a clinical complication of bone marrow transplantation. GVHD profoundly disregulates almost every aspect of lymphocyte ontogeny and function, making it an exciting system in which to study a variety of immune pathologies. I would like to pursue research in immunology, especially in the ara of immune regulation; and eventually to work on the mechanisms of tolerance induction and maintenance.

From the perspective of someone just beginning graduate studies, the main challenge is learning to assimilate and integrate the vast quantity of information currently being generated in immunology and related areas. The bulk of information seems to lead to super-specialization, both technical, and unfortunately, conceptual. Sadly, this compartmentalizing effect may be accentuated by the lack of exchange of new ideas and new data, not only due to the secrecy between labs engendered by the "publish or perish" outlook, but even by national policies such as the MRC's reluctance to fund post-doctoral students outside Canada. These are alarming trends for those of us hoping for a future in scientific research.

Julie Desbarats
Department of Physiology
McGill University
McIntyre Medical Sciences Building
3665 Drummond Street
Montreal, PQ
H3G 1Y6

I completed my B.Sc. in Biology at Wilfrid Laurier University in 1985. My honours project dealt with gene expression in artificially induced genotypes of flax plants. My experience with plants ended there. I then made a big move 30 km down the road to the University of Guelph and cultured mouse cells, in which I studied cell cycle dependent gene expression. After completing my M.Sc. in Molecular Biology and Genetics, I worked at the Ontario Veterinary College, where I studied malignant hyperthermia in pigs. In 1989, I moved to Dalhousie University, to study fish, and here a new world opened to me....Immunology! I was so fascinated that I enrolled in the Ph.D. program in Sept. 1990. My current research interests are the cloning and sequencing of the genes encoding the main immunological proteins from fish, and their utilization in fisheries studies.

After reading the paragraphs submitted by last year's winners and a little thought, I have concluded that the major challenge facing graduate students today has not changed in a year, it is still funding. With the current move by NSERC to granting group-grants, and the cutbacks in funding everywhere, I think graduate students will have an increasingly difficult time finding funds for their research interests.

J'ai fini mon B.Sc. en Biologie à l'Université Wilfrid Laurier en 1985. Mon project "honneurs" portait sur l'expression des gènes dans les génotypes artificiels de la plante de lin. Mon expérience des plantes s'est arrêtée là. Après cela, j'ai fait un grand bond, 30 km plus loin à l'Université de Guelph et je suis passé aux cellules de souris, dont j'ai étudié l'expression des gènes dépendente du cycle cellulaire. Après avoir fini mon M.Sc. en Biologie Moléculaire et Génétique, j'ai travaillé au Collège Véterinaire de l'Ontario, où j'ai étudié l'hyperthermie maligne chez les cochons. Depuis août 1989, je travaille au Département de Biologie de l'Université Dalhousie à Halifax. Ici j'étudie mes animaux favoris - les poisson. C'est aussi ici que je me suis intéressé à l'immunologie. Je me suis inscrit au programme de Ph.D. en septembre 1990. Mes recherches actuelles concernent le clonage et le séquençage des gènes immunologiques les plus importants chez les poissons et leur utilisation pour les études halieutiques.

Après avoir lu les notes soumises par les gagnantsde l'année passée et après courte réflexion, j'ai conclu que le plus grant défi auquel les étudiants diplômés doivent faire face est le même cette année: les subventions. Avec le CRSNG qui donne principalement des subventions de recherche pour les groupes, et avec les coupures de subventions un peu partout, je pense que les étudiants diplômé vont avoir de plus en plus de difficultés à obtenir de l'argent pour leurs recherches.

Brian Dixon
Marine Gene Probe Laboratory
Biology Department
Dalhousie University
Halifax, NS

## *NEW MEMBERS*

*At this year's meeting at the Chateau Lake Louise, several new members were welcomed to the Society. They have been invited to provide a brief description of their academic backgrounds and current research interests. The contributions of those who responded are below.*

**JOHN R. GORDON** (Ph.D., University of Saskatchewan, 1984)

Current Position: Instructor in Pathology, Department of Pathology, Harvard Medical School/Beth Israel Hospital, Boston, MA 02115.
Phone: (617) 735-3641 FAX: (617) 735-3616.

Current Research: Mast cell immunobiology and molecular biology - production of cytokines by mast cells. Pathogenesis of disease.

**HANS-GEORG KLINGEMANN** (Dr. Med., University of Wurzburg, Germany, 1977)

Current Position: Senior Scientist, Terry Fox Laboratory; Clinical Hematologist, BC Cancer Agency; Member, Bone Marrow Transplant Program of BC; Clinical Associate Professor of Medicine, University of BC, 601 West 10th Avenue, Vancouver, BC V5Z 1L3
Phone: (604) 875-6070 FAX: (604) 877-0712

Current Research: Immune modulation after bone marrow transplantation to eliminate residual leukemia. Graft-versus-leukemia effects mediated by cytotoxic lymphocytes/killer cells.

**DANUTA RADZIOCH** (Ph.D., Jagiellonian University, 1982)

Current Position: Assistant Professor, Department of Medicine, McGill University, Montreal, PQ H3G 1A4
Phone: (514) 937-8951 FAX: (514) 933-7146

Current Research: Molecular mechanisms of macrophage activation for bactericidal and tumoricidal activity. Mechanisms of transcriptional and posttranscriptional control of gene activation in macrophages.

**President - Président:**
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**Secretary-Treasurer - Secrétaire-Trésorier:**
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(416) 978-7188

**Past-President - Président Sortant:**
E.F. Potworowski, Ph.D.
Institut Armand Frappier
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Laval, Quebec, H7N 4Z3
(514) 687-5010

Canadian Society for Immunology
Société Canadienne d'Immunologie

# MINUTES OF THE 10TH ANNUAL GENERAL MEETING OF THE CANADIAN SOCIETY FOR IMMUNOLOGY

## HELD MARCH 11, 1990 MONT GABRIEL, QUEBEC

1. The Annual General Meeting of the Society was convened by President Froese on March 11, 1990 during the Annual Scientific Meeting of the Society held this year in Mont Gabriel Quebec.

   The President of the Society, Dr. A. Froese, opened the Meeting and directed the attention of the members to the Minutes of the previous Annual General Meeting of the Society which was held March 05, 1989 in Lake Louise, Alberta. These Minutes were published with June 1989 issue of the Society Bulletin. After first determining that there were no amendments or corrections to be made to these minutes, it was moved by Drs. Bienenstock and Singh, that they be adopted. The adoption of the minutes was carried without dissent by the membership.

2. **NEW BUSINESS:**

   Dr. Froese invited Dr. Potoworowski to report on the Cinader Lectureship. Dr. Potoworowski reported on the process for nominations and the workings of the Nomination Committee consisting of the President, Immediate past President and the past President of the Society once removed. Dr. Potoworowski reported that Dr. J. Roder of Toronto had been selected for the presentation of the lectureship in 1990, and that his lecture on March 09, 1990 was well received by the membership.

   Dr. Potoworowski invited nominations for the next Annual Meeting from the membership. Dr. Sehon rose to suggest that the Committee should actively consider maintaining previous nominations which had not been selected for careful consideration in future years.

3. **SECRETARY'S REPORT:**

   Dr. Ottaway reported on current aspects of the membership of the Society. Since the last General Meeting, a total of 32 new Student Members had been admitted to the Society from across Canada. A total of 19 applications for full membership in the

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briefly outline current aspects of Science Policy issues. Dr. Rosenthal reported to the membership that it was time for all members to become more pro-active in shaping policy approaches to Research funding and to University funding. He further highlighted important safety and activity issues, such as the control of waste materials and animal care.

Dr. Rosenthal further noted the very important role that Dr. C. Gautier was performing in coordinating Scientific Policy efforts for a variety of Organizations such as ours. He suggested that our membership owed Dr. Gautier a substantial debt because of his hard work in this regard. Dr. Rosenthal further noted the very important contributions that Dr. Befus had made in previous years. More recently Dr. Rosenthal, along with Dr. Deslauriers, Dr. Filion, and Dr. Belosovic had participated in a recent policy representation Meeting which wa held in early March of 1990 in Ottawa. Dr. Rosenthal noted that 4 major points were the focus of that Policy representation Meeting.

1. **Federal Government Funding:**

   Although the Federal Government had previously undertaken to raise the budget for Research and Development to 2.5% of the Gross Domestic Product, current funding levels were approximately 1.3% of the GDP. He encouraged members to communicate their ideas regarding the importance of this support to Members of Parliament and other representatives that they may have. It was noted that the University Industry Co-operative Programs had been initiated in 1985. The current year was the final of the planned 5 years of that Program. One area of possible concern, was that if this Program were to continue, the formal Granting Agencies may loose up to 20% of their current budgets, if there is no new replacement for funding of these initiatives.

2. **University Funding:**

   Dr. Rosenthal reported that the current policy of the Federal Government appeared to be that, University designated transfer payments will be **capped** at current levels. This could leave the Universities in a very precarious position, and Dr. Rosenthal noted that a First Ministers Conference was planned to elaborate a policy with respect to University Funding.

3. **Student Issues:**

   Recent demographic information suggestion that there were

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6. **PRESIDENT'S REPORT:**

a) **CSI Bulletin:**

Dr. Froese noted that the Editorship had recently changed. Dr. Fournier had resigned after coordinating this work for a number of years for the Society. There was a Vote of Thanks for Dr. Fournier's efforts which was warmly approved by the membership. Dr. Froese went on to report that Dr. Kent Hayglass had agreed to take on the Editorship of the Bulletin and that the next issue was planned for May, 1990.

b) **Animal Care Issues:**

Dr. Froese reported that Dr. Wayne Lapp and Dr. Bruce Wilkie, both members of our Society also served on the CCAC Committee on immunological procedures. A number of newer recommendations were coming out and Dr. Froese encouraged members who use these procedures to communicate directly with Dr. Lapp and Wilkie.

c) **The Relationship of the Society to CFBS:**

Dr. Froese reported that 5 new Societies have joined the Federation, within recent months. Many of these had also chosen not to meet with the General Federation Meetings but were mounting independent Scientific Meetings in a manner similar to the Society. He noted that we had maintained our contacts with CFBS because of the perceived importance of Science policy issues. This also appeared to be a principal motivating factor for these new Societies.

d) **The Scientific Meeting for 1991:**

Dr. Froese reported that it was decided to mount this Meeting at Lake Louise, in March 1991, to return to the Western venue. The dates proposed were **March 08, through March 11,** and a lengthened format of the Meeting which would go on throughout the Monday, was proposed. It was noted that the next **Annual General Meeting of the Society would occur during that Scientific Meeting in March 1991.** It was further noted that Dr. Linda Pilarski had agreed to be the Chief Coordinator for the local Organizing Committee.

8. **OTHER BUSINESS:**

Dr. Valeriu-Miccusan, from the Institut Armand Frappier, rose to remind the members of the important changes that were going on in

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Appendix 2 15th AGM minutes

# THE CANADIAN SOCIETY FOR IMMUNOLOGY

## FINANCIAL STATEMENTS

## MAY 31, 1989

# THE CANADIAN SOCIETY FOR IMMUNOLOGY

## MAY 31, 1989

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Wainman + Kydd
Chartered Accountants

70 Richmond Street East, Suite 400
Toronto, Ontario M5C 1N8
(416) 363-2075 Fax: (416) 367-2653

## AUDITORS' REPORT

To the Members of
The Canadian Society for Immunology

We have examined the balance sheet of The Canadian Society For Immunology as at May 31, 1989 and the statement of revenue and expenses and operating surplus 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.

In our opinion, these financial statements present fairly the financial position of the company as at May 31, 1989 and the results of its operations for the year then ended in accordance with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

Wainman & Kydd

TORONTO, ONTARIO
February 23, 1990

CHARTERED ACCOUNTANTS

**THE CANADIAN SOCIETY FOR IMMUNOLOGY**
(Incorporated as a corporation without share capital under the laws of Canada)

**BALANCE SHEET**

**AS AT MAY 31, 1989**

| | 1989 | 1988 |
|---|---|---|
| **ASSETS** | | |
| CURRENT | | |
| Cash | $ 231,695 | $ 243,843 |
| Accounts receivable | 16,246 | - |
| Prepaid expenses | 2,000 | - |
| | $ 249,941 | $ 243,843 |
| **LIABILITIES** | | |
| CURRENT | | |
| Accounts payable and accrued liabilities | $ 4,086 | $ 7,734 |
| Due to member | 1,266 | 268 |
| | 5,352 | 8,002 |
| **OPERATING FUND** | | |
| OPERATING SURPLUS | 244,589 | 235,841 |
| | $ 249,941 | $ 243,843 |

APPROVED ON BEHALF OF THE BOARD:

_____ Director

_____ Director

SEE ACCOMPANYING NOTES

Dalhousie University

*Prepared for the Bulletin by Dr. David Hoskin, Dalhousie University.*

Profile: Immunology at Dalhousie University

Dalhousie University was founded in Halifax in 1818, making it one of the oldest universities in Canada. Today, the student population numbers in excess of 11,000 with over 1250 full-time graduate students. Research in immunology at Dalhousie University is centered in, but not restricted to, the Faculty of Medicine. There are presently some 14 principle investigators with major research interests in immunology located in the Departments of Microbiology, Medicine, Pediatrics, Biology and Pathology. The graduate program in immunology is based within the Department of Microbiology. Research facilities are primarily based in the Sir Charles Tupper Medical Building and the Infection and Immunology Research Laboratories of the Izaak Walton Killam Hospital for Children. Additional laboratory space is located in the Clinical Research Center, Civic Hospital, Camp Hill Hospital and the Victoria General Hospital.

The Immunology Group at Dalhousie University is currently experiencing a welcome period of growth with the recent arrival of Dr. Andrew Stadnyk and the recruitment of Dr. Tim Lee. Both researchers are affiliated with the Department of Microbiology. Research interests within the Immunology Group are varied and include natural resistance mechanisms, autoimmunity, the inflammatory response, and immunoparasitology. A listing of faculty members, departmental affiliations, and where they obtained their professional degrees is provided below. A synopsis of primary research interests is also included.

R.I. Carr, Medicine and Microbiology (M.D., Toronto; Ph.D. Rockefeller) Autoimmunity. Effects of casein and neuropeptides on the development of autoimmunity in NZB/W mice. Mechanisms of resistance to oral tolerance induction.

L.A.V. Fernandez, Medicine (M.D., Karachi). Control of feedback suppression of B cell proliferation in low-grade lymphoproliferative disorders.

T. Ghose, Pathology (Ph.D., Calcutta). Tumor immunology. Development of immunoconjugates and their application to the treatment of cancer.

J.G. Hanly, Medicine (M.D., Cork). Anti-neuronal antibodies in SLE.

D.W. Hoskin, Microbiology (Ph.D., McGill) Natural immunity. Cellular and molecular mechanisms of natural suppressor cell function and natural cell-mediated cytotoxicity.

A.C. Issekutz, Pediatrics and Microbiology (M.D., Dalhousie) Mechanisms of inflammation involved in the host reaction to bacteria, bacterial products and immunological stimuli.

T.B. Issekutz, Pediatrics and Microbiology (M.D., Dalhousie). Cellular and molecular events involved in lymphocyte migration and interactions with vascular endothelium during inflammation.

J.V. Jones, Medicine (M.D., Bristol). Anti-cardiolipid antibodies. Neuropeptides and lymphocyte activation.

S.H.S. Lee, Microbiology (Ph.D., Dalhousie). Interferons and diseases. Identification of interferon-producing cells in peripheral blood during normal and disease states.

T.D.G. Lee, Microbiology and Surgery (Ph.D., Glasgow). Host defence against nematode infection. The role of eosinophils in resistance to neoplasms, intestinal inflammation, and transplant rejection.

J.M. MacSween, Medicine (M.D., Dalhousie). The role of MIF in kidney transplant rejection.

T.C. Peterson, Medicine (Ph.D., Dalhousie). Cytokines involved in immune-mediated hepatic damage.

W. Pohajdak, Biology (Ph.D., Manitoba). Molecular mechanisms of natural killer cell function. Evolutionary immunology in fish species. Identification of immunogenic proteins from the cod worm parasite Pseudoterranova decipiens.

A.W. Stadnyk, Pediatrics and Microbiology (Ph.D., McMaster). Regulation of intestinal epithelial cell function by cytokine gene expression in the normal and inflamed rat intestine.

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Molecular Virology and Immunology Program

Prepared for the Bulletin by Dr. Peter Ernst, McMaster University.

## PROFILE: IMMUNOLOGY AT McMASTER UNIVERSITY

Most of the scientists at McMaster interested in Immunology are associated with the Molecular Virology and Immunology Program (MVIP). A common theme for research and teaching involves basic and applied studies of the immunobiology and inflammation in mucosal tissues. These include the respiratory tract, the intestine and the reproductive tract. Related areas of activity include immunogenetics, transplantation, allergy, autoimmunity, antigen presentation, T cell activation/differentiation, immunophysiology and immune-nerve interactions.

The association with the virologists in the MVIP builds interactions in immunovirology, viral pathogenesis and vaccine development. Combined expertise in these areas has led to the formation of a vaccine development group which is jointly funded by MRC and Industry. The multidisciplinary approach has also significantly contributed to the development of immunophysiology in the Intestinal Disease Research Program, fertility work in Reproductive Biology and studies of the interactions of inflammatory cells and mediators in diseases of the airways.

### Research Interests

**Bienenstock, J.** (MB, BS London UK, FRCP(C)) Mucosal Immunology: nerve/mast cell interactions in vivo and in vitro; Role of NGF in mast cell growth and differentiation.

**Blennerhassett, M.G.** (PhD, UWO) Neuroimmunology - Nerve and mast cell interactions; Nerve development and function in the intestine; Electrophysiology of neurons; Neurotransmitter activation of mast cells.

**Clark, D.A.** (MD Western, PhD Toronto, FCRP(C)) Immunology of murine pregnancy: why pregnancy fails and how immune responses can prevent or enhance early pregnancy failure; Immunology of human pregnancy: Investigations of IVF success/failure and suppressor/growth stimulatory polyamines in early pregnancy; Regulatory effects of TGF-$\beta$ in pregnancy and cancer.

**Collins, S.M.** (MB, London UK, FRCP(C)) Interactions between the immune system and enteric nerves and smooth muscle; The abilities of inflammatory cytokines to modulate neuromuscular function in the gut.

**Croitoru,K.** (MDCM, McGill, FRCP(C)) Mucosal Immunology: Inflammatory bowel disease; T cell activation and differentiation in intestinal and other mucosal environments.

**Denburg, J.A.** (MD, Jerusalem, FRCP(C)) Basophil, mast cell and eosinophil phenotype, growth and differentiation in health and disease; Neuroimmunology of systemic lupus erythematosus.

**Dolovich, J.** (MD, Manitoba, FRCP(C)) Clinical allergy; Airway inflammation in patients; Histochemical and immunohistochemical studies of airway tissues.