



BULLETIN

CANADIAN SOCIETY FOR IMMUNOLOGY

SOCIÉTÉ CANADIENNE D'IMMUNOLOGIE

Message du rédacteur en chef

L'arrivée du mois de septembre marque le retour à l'école, les dernières retouches à faire aux demandes de subventions et le sifflement des tempêtes de neige à Winnipeg (le dernier énoncé est bien sûr une blague - même à Winnipeg, il y aura encore quelques mois de répit). Dans ce numéro du Bulletin, le deuxième depuis l'entrée en vigueur de notre calendrier de publication trimestrielle, nous présentons le premier d'une série de portraits sur les centres d'immunologie au Canada.

Au cours des prochaines années, nous prévoyons esquisser un portrait de divers centres canadiens reconnus pour la recherche et des études graduées en immunologie. En ce qui a trait à cette colonne sur les centres canadiens d'excellence en immunologie, nous traiterons dans notre prochain numéro du Bulletin de l'Université de Montréal et de l'Université de Calgary. J'encourage quiconque serait intéressé à préparer un portrait sur un centre canadien particulier à communiquer avec moi à ce sujet.

Ce numéro présente également le deuxième d'une série d'articles invités sur la place des femmes en science ainsi qu'un appel à tous les membres de la CSI/SCI pour agir, sur une base volontaire, comme correspondant régional. Enfin, je voudrais exprimer des remerciements particuliers au Dr. Gabriel Marquis, de l'Université de Montréal, pour l'aide qu'il m'a apporté dans la traduction de ce texte.

Bon mois de septembre!

Editor's message

Now that it is September, school is back, the finishing touches are being put on grant applications and the blizzards are howling in Winnipeg (Just kidding--they will be another couple of months even here!). In this issue of the Bulletin, the second in our new quarterly publication schedule, we present the first in a series of profiles of Immunology centres in Canada.

Over the next few years we plan to present a survey of each of the many centres in Canada where Immunology research and training is strong. Our next profiles will be on the Université de Montréal and the University of Calgary. I encourage anyone interested in preparing such a profile of Immunology research at their institution to get in touch with me.

We also present another in our series of invited columns on Women in Science and issue an invitation to all members of the CSI/SCI to consider volunteering to act as a regional correspondent. Once again I thank Dr. Gabriel Marquis, University of Montreal, for his assistance in translating this column.

Have a great September!

REGIONAL CORRESPONDENTS

Over the years, the Bulletin has been served by many regional correspondents who have played an important role in keeping us informed about what is happening at their University and in their local scientific community. The CSI/SCI Bulletin is now in need of volunteers to fill this role.

At present we have no complete list of those who have volunteered to provide an occasional (about once every year) report on the local scene. Optimally, one correspondent from each University would be available. The reports are of an open format (that means you can write anything that will not get you into court) and can be from a paragraph to a page in length.

I am in the process of establishing such a network of volunteers. I place particular emphasis on having some research trainee representatives in addition to full members. If you have served or would like to serve as an occasional correspondent, I would love to hear from you. My address and FAX are listed on the inside cover. You need not be bilingual. The remuneration will not add to your tax burden.

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 paraître 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'adresse devront adressés 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.

"Participaction"

The annual spring meetings of the CSI have been very successful and have gained in popularity every year. There can be no doubt that the locations and the atmosphere of these meetings have acted as a catalyst, but the scientific content has not doubt, played a major role in the final outcome. Much of the credit for the scientific success has to go to the participants at large who through their posters and discussions have made these meetings stimulating and lively. Not to be overlooked are the symposia which serve as a drawing card and set the tone for any meeting. They too have been of high quality. Nevertheless, because the number of symposia is limited, they cannot always cater to the interests of all members of the CSI. Scientific programs are, by necessity, organized by a relatively small group of people which makes it important that the organizers receive the input from a broad segment of the CSI's membership. Council would welcome your "beefs and bouquets" about past meetings as it would suggestions for symposium topics for future ones. Send your input to any member of the executive. To be considered for a given spring meeting, suggestings for topics would have to be received prior to the previous meeting to give council an opportunity to discuss them.

Arnold Froese

WE ARE RECYCLED!

Unlike the symbols on advertisements from your local businesses that tell you to recycle their flyer, the CSI/SCI Bulletin is already recycled. We are printed on unbleached, recycled paper (made in the US!) that actually costs marginally more than new paper. Though our circulation is pretty tiny, a start has to be made somewhere.

CHANGES

We all like to know what is going on at other Institutions. Contributions concerning trainees who have completed their degree/PDF, new faculty, and retirements are invited. Please contact the Editor for information on the suggested format.

EMPLOYMENT OPPORTUNITIES



McGill

INSTITUTE OF PARASITOLOGY OF MCGILL UNIVERSITY, Montreal, Canada TENURE-TRACK / TENURED POSITION BIOCHEMISTRY / CELL BIOLOGY

Applications are invited from individuals with experience in biochemistry and/or cell biology, whose research is relevant for understanding the molecular basis of host-parasite interactions. A specific background in parasitology is not required. Applicants should have a Ph.D. or equivalent, at least two years of post-doctoral experience and the ability to run a strong independent research program and to supervise post-graduate student research. McGill University is an equal-opportunity employer; qualified women and men are encouraged to apply. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents in the first instance. Applicants should send an outline of research interests, a curriculum vitae and the names of three individuals who have agreed to provide letters of reference before November 30, 1990 to:

Dr. Marilyn Scott, Director, Institute of Parasitology of McGill University, Macdonald College, 21,111 Lakeshore Road, Ste-Anne-de-Bellevue, Quebec H9X 1C0 Canada.

A RETROSPECTIVE LOOK AT 25 YEARS

1991 marks the 25th anniversary of the founding of the Canadian Society for Immunology/Société Canadienne d'Immunologie. Over this period we have been served by 10 presidents (one twice) who have taken the society from a handful of individuals to an organization that now numbers in the hundreds. In the next issue we hope to begin a series of invited columns by those who served as president over the first quarter century of the CSI/SCI.

Many members have only a very sketchy view of how the Society was formed, what challenges it had to meet, what the pressing issues of the day were and how they were resolved. These opinion pieces by the CSI/SCI presidents will provide a perspective on the events which transpired during their term of office and how they affected, for better or worse, the development of Immunology in Canada.

CSI/SCI PRESIDENTS

1966-1991

1966-69	B. Cinader	Univ. of Toronto
1969-71	A. Sehon	Univ. of Manitoba
1971-73	B. Rose	McGill University
1973-75	S. Dubiski	Univ. of Toronto
1975-77	P. Gold	McGill University
1977-79	F. Paraskevas	Univ. of Manitoba
1981-83	J. Levy	Univ. of British Columbia
1983-85	N.R. Sinclair	Univ. of Western Ontario
1985-87	J. Bienenstock	McMaster University
1987-89	E.F. Potworowski	Institut Armand-Frappier
1989-91	A. Froese	Univ. of Manitoba

PERSPECTIVE: THE FEMALE SCIENTIST

This is the second in a series of invited contributions on issues of the columnist's choice which are provided by female scientists active in Canadian research. This issue's contribution is from Dr. M. J. Tucker who holds the positions of Assistant Professor at the University of Western Ontario and Associate Scientist at Robarts Research Institute, London.

Women in science today face many of the same problems as our predecessors - plus a few more! Many elements in our society are working to make life easier for the professional woman in the work force, but women today meet a confusing array of attitudes from their male colleagues. There are those who mean well, but, probably through no fault of their own, are completely incapable of treating a female as an equal. There are others who try so hard to counteract their upbringing, that they treat female colleagues with reverse discrimination. There are male colleagues who accept females on a trial basis to see if they can really function as equal scientists. Then there are those who cannot understand what the problems are because they only see and discuss science with other scientists without noticing gender. Life would be easier with consistent expectations from associates.

As a member of a minority group, women scientists are subject to "tokenisms". When committees are formed, and it is deemed advantageous to the group, they will often ensure the presence of their token female scientist on that committee. This is not to say that they will listen to her opinions! These time consuming committee duties are added to the workload of these women.

Women in science also carry a burden to be a role model for younger female scientists or graduate students. Male scientists, of course, also have this burden, but there are so many more of them that the pressure is not the same. Besides being a role model for developing female colleagues, the female scientist often is expected to play the role of mother to upset, confused or unhappy students and technicians. (Perhaps this is more true for those of us who are also natural mothers.)

Women in science face all of the burdens of their female counterparts in other professions, including home responsibilities. Because science is not, and cannot be, a Monday to Friday 9 - 5 pursuit, it is especially hectic to combine a scientific career with a family. Female scientists with families still rely on the perfect mate in order to be successful.

Whether or not other scientists will be able to accept females as equals remains to be seen. In the meantime, remember that the female professor in your department carries an extra burden, and still manages to cope. I wonder how many of our male colleagues would be in these positions if they had the same obstacles to overcome?

CSI Meeting 1991: Lake Louise

Contributed by Dr. L. Pilarski, Univ. of Alberta/Edmonton

The Canadian Society of Immunology annual meeting will be held from March 8-12th 1991 at the newly renovated Chateau Lake Louise. This meeting will be our 5th annual meeting and the 25th anniversary of the founding of CSI. In honor of the occasion, the meeting will continue for a day longer than has been the case in the past, and will include a celebratory banquet and mixer on the final evening of the meeting (March 11). In keeping with tradition, the meeting will begin with the Cinader Lecture and a mixer on Friday night, March 8th. Buses back to Calgary and points beyond will leave on Tuesday morning (March 12th).

Symposia are as follows:

Autoimmunity

Chairperson: Trevor Owens

Sponsored by Becton Dickinson

Induction and regulation of autoimmune disease

Trevor Owens, McGill University

T cell tolerance

Hung-Sia Teh, University of British Columbia

T cell receptor V region peptides induce autoregulatory T cells and antibodies

Arthur Vandembark, Veterans Administration Medical Center, Portland, Oregon

Immunoregulatory events in the induction and prevention of autoimmune disease in the NOD mouse

Bhagirath Singh, University of Alberta

Factors influencing the development of diabetes in animal models

Anne Cooke, University College and Middlesex School of Medicine

The interplay of microbes and MHC in chronic arthritis

Robert Inman, Toronto Western Hospital

Adhesion Molecules in Development and Differentiation of the Immune System

Chairperson: Michelle Letarte

Sponsored by the RW Johnson Pharmaceutical Research Institute

Role of ICAM-1/LFA-1 interactions in the immune system

Fumio Takei, University of British Columbia

Structure and function of VLA integrins

Martin Hemler, Harvard University

Evidence linking the B cell differentiation antigen CD9 to adhesion structure signalling
Andrew Shaw, University of Alberta

Potential role of endoglin (an endothelial cell surface antigen) in cellular adhesion
Michelle Letarte, University of Toronto

Is hyaluronic acid a universal modulator of cell locomotion via its adhesive properties?
Eva Turley, University of Manitoba

Mechanisms of Signal Transduction

Chairperson: Gordon Mills
Sponsored by Coulter Electronics

Activation of T lymphocytes by IL-2
Gordon Mills, University of Toronto

Neutrophil activation
Sergio Grinstein, University of Toronto

Activation of B lymphocytes
Anthony Defranco, University of California-San Francisco

Activation of T lymphocytes
Jeff Ledbetter, Oncogen

Role of LCK in T cell activation
Andre Veillette, McGill University

Adhesion molecules: A round table discussion

Chairperson: Barbara Pope, RW Johnson Pharmaceutical Research Institute
Sponsored by Chembiomed and Professional Diagnostics

Discussants: John Wilkins, University of Manitoba;
Graeme Dougherty, University of British Columbia;
Bosco Chan, Harvard University

Special Plenary Lecture

Effects of interferon and HIV infection on monocytes
Monte Meltzer, Walter Reed Institute

PROFILE: IMMUNOLOGY AT THE UNIVERSITY OF MANITOBA

Immunology at the University of Manitoba (22,000 students) comprises the major research interest of some 25 principle investigators located in several departments including Immunology, Pathology, Medicine, Medical Microbiology, Zoology and Chemistry and at the Manitoba Institute for Cell Biology.

The Department of Immunology itself, located within the faculty of Medicine on the downtown campus, was established as Canada's first Immunology department in 1969. It currently numbers some 75 and offers M.Sc., Ph.D., and postdoctoral training to 22 research trainees. The department also contains within it the MRC Group for Allergy Research, headed by Dr. Alec Sehon, which has as its focus the understanding and control of allergic disease.

Cell signaling, cytokine biology, tumor immunology, immunoregulation, autoimmunity and neuroendocrine immunology are particular areas of strength at the University, being studied at the cellular and molecular level in several laboratories.

Below, I have provided a listing of faculty members, where they obtained their professional degrees and a synopsis of their primary area of research which they have provided me with. Departmental affiliations are not listed.

A.B. Becker (M.D., Univ. of Manitoba), *Studies of the mechanisms of asthma in a canine model system.*

I. Berczi (D.V.M., University of Budapest; Ph.D., University of Manitoba) *Hormonal regulation of immune responses. Applications of B cell hybridomas.*

R.C. Brunham (M.D., University of British Columbia), (Chairman, Medical Microbiology), *Immunogenicity and antigen structure of microbial proteins.*

D.A. Chow (Ph.D., University of Manitoba), *Tumor immunology. Resistance against oncogene and tumor promotor induced tumor development.*

T.A. Dick (Ph.D., University of Toronto) *Host-parasite interactions, helminths in mice and fish. Intestinal immunity and non-specific responses (C reactive protein).*

J. Foerster (M.D., University of Manitoba), *Immunologic and pharmacologic control of autoimmunity. Studies of systemic lupus erythematosus.*

A. Froese (Ph.D., McGill University), *Structure and function of IgE receptors. Studies of mast cell heterogeneity.*

J.G. Gartner (M.D., McGill University), *Transplantation immunology. Natural killer cells.*

A. Greenberg (M.D., University of Manitoba; Ph.D., University of London), *Molecular mechanisms of natural killer cell function. TGF- α regulation of inflammation and repair. Genetic regulation of metastasis formation.*

K.T. HayGlass (Ph.D., University of Western Ontario), *T cell regulation of immune responses; Role of IL-4/IFN γ in human and murine systems. Modified allergens for immunotherapy. Immunological mechanisms of parasite resistance.*

- G. Jamieson (Ph.D., University of Edinburgh), Monokines and their mechanisms of action.
- F.T. Jay (Ph.D., University of Liverpool), Structure function studies of human interferon gamma.
- M.W. Kepron (M.D., University of Manitoba), Studies of allergic asthma. Regulation of IgE responses.
- F.T. Kisil (Ph.D., McGill University), Immunochemistry of grass pollen allergens. Epitope mapping of allergens.
- R.M. McKenna (Ph.D., University of Dublin) Transplantation immunology. Mechanisms of action of immunosuppressive drugs (cyclosporins).
- S.S. Mohapatra (Ph.D., Australian National University), Molecular biology of T cell suppressor factors. Expression and in vitro modification of grass pollen allergens and their epitopes.
- K. Oen (M.D., New York University), Immunopathogenesis of juvenile rheumatoid arthritis. The development of immunologic competence in the neonate.
- F. Paraskevas (M.D., University of Thessaloniki), Early events of T cell activation during an immune response in vivo: cellular and molecular mechanisms.
- D.C. Rayner (M.D., University of Manitoba), Cell interactions in experimental myelin, thyroid autoimmunity.
- E. Rector (Ph.D., University of Manitoba), Development of B and T cell hybridomas; Flow cytometry.
- E. Sabbadini (M.D., University of Pavia; Ph.D., McGill University), Transplantation and tumor immunology. Cytokines and cytokine regulators.
- A.H. Sehon (Ph.D., D.Sc., University of Manchester), (Chairman, Immunology) Conversion of antigens to tolerogens. Suppression of immune responses to common allergens and immunotoxins.
- F.E.R. Simons (M.D., University of Manitoba), Agonists and antagonists of the immediate hypersensitivity response.
- R.J. Warrington (M.D., University of London, Ph.D. Memorial University), Autoimmunity. Characterization of B cell growth factors and their receptors.
- J.A. Wilkins (Ph.D., University of Manitoba), Inflammatory lymphocytes: functions and migration. The roles of adhesions in lymphocyte biology.

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