



BULLETIN

CANADIAN SOCIETY FOR IMMUNOLOGY SOCIETE CANADIENNE D'IMMUNOLOGIE

JUNE, 1990

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Message du rédacteur en chef

A la dernière réunion printannière de la Société canadienne d'immunologie (SCI/CSI), j'ai succédé au Dr Michel Fournier de l'Université du Québec à Montréal au poste de rédacteur en chef du Bulletin. Michel mérite nos plus sincères remerciements pour les efforts et les nombreuses heures de travail qu'il a investis au cours des dernières années dans la coordination et la production de ce moyen de communication privilégié que constitue le Bulletin de la SCI/CSI.

Afin de continuer à promouvoir ce rôle important du Bulletin, j'ambitionne d'en faire une publication trimestrielle. Ceci me semble un compromis raisonnable entre une fréquence de publication insuffisante pour maintenir un sentiment d'appartenance à une communauté parmi les immunologistes canadiens, et une fréquence qui risquerait d'accaparer une trop grande partie de mon temps (le CRM s'attend à des publications de ma part dans des revues scientifiques plus largement diffusées!).

L'objectif de la plupart d'entre nous n'est pas d'être reconnu comme de bons immunologistes canadiens mais plutôt comme des scientifiques de calibre très compétitif à l'échelle internationale. Cependant, nous partageons certaines préoccupations et intérêts communs du fait même que notre activité scientifique s'exerce au Canada. C'est l'objectif premier du Bulletin de la SCI/CSI de refléter fidèlement ces préoccupations, de diffuser et promouvoir les intérêts de la communauté des immunologistes canadiens. Afin de mieux remplir cette tâche et de favoriser une meilleure communication, j'apporterai certaines modifications au Bulletin de la SCI/CSI dans les mois à venir. Je sollicite vos opinions et suggestions sur les moyens à prendre pour améliorer l'efficacité de notre Bulletin en tant qu'organe de communication. Ce numéro présente les réactions des étudiants dont les présentations ont été primées lors de la dernière réunion printannière à l'auberge du Mont Gabriel, quelques informations générales sur les nouveaux membres de la Société, et le premier d'une série d'articles invités sur la place des femmes en science.

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.

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 être 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.

Kent HayGlass

Editor's message

At the spring meeting of the CSI/SCI I assumed the editorship of the Bulletin from Dr. Michel Fournier (Universite du Quebec a Montreal), who has put much effort and many hours of his time into this publication over the last several years. Michel deserves the sincere thanks of the CSI/SCI for coordinating and producing a major means of communication amongst the members of our society.

In an effort to build on this role for the Bulletin, I plan to move to a quarterly publication schedule. Seeking a compromise between a publication schedule that is too infrequent to maintain a sense of community among Canadian immunologists and a frequency that occupies too much of my time (The MRC is expecting publications from me in more widely accessible journals!), has led me to a quarterly schedule.

Most of us aim not to be known as good "Canadian immunologists" but as investigators competitive at the international level. Nevertheless, there are things which we have in common practicing science in Canada. It is the objective of the CSI/SCI Bulletin to promote these ties. To do so, I will be introducing a number of features over the next several issues aimed at enhancing communication. I welcome your contributions and suggestions about how this might be done more effectively. Included in this issue are invited comments from the student winners at the Auberge Mont Gabriel meeting, some background information on new members of the Society and the first of a series of invited commentaries on women in science.

I would like to express my special thanks to Dr. Gabriel Marquis, University of Montreal, for his assistance in translating this column.

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.

Kent HayGlass

A MESSAGE FROM THE PRESIDENT

"25-10-5"

In the coming year the CSI will mark a number of milestones. At the 1991 Spring Meeting at Lake Louise, Alberta we shall have the opportunity to celebrate the 25th Anniversary of the CSI which was founded in 1966. Other anniversaries will include ten years of incorporation and five years of successful and stimulating Spring Meetings. Many of the founding members of the Society are still active, and we hope to see a large number of them at Lake Louise.

Over the years, the Society and immunology in Canada have grown. There are three immunology departments in the Country and the discipline is well represented in most universities and in many departments which do not bear the name. Many new faces have appeared at our meetings in recent years. It is gratifying to see that in spite of the financial difficulties which plague most of our universities, new blood is still flowing. The impact of our new members has been quite noticeable at our recent meetings.

Immunology has not only spread across the Country, it has grown in depth. There is a critical mass of investigators working in many areas of immunology, and their research is recognized world-wide. The CSI and its members have organized numerous international meetings on a variety of topics. The peak was reached when we held the Sixth International Congress in Toronto, considered by many one of the best International Congresses held so far. Another congress won't come our way for quite a number of years, but I hope that we shall continue to play an active role at the international level by continuing to organize international symposia and similar meetings. Such meetings are particularly important to our small society, since they provide an opportunity for a relatively large segment of our membership to attend.

The future of immunology in Canada looks bright if one considers current research activities. However, vigilance is necessary. Funding for research has been eroding over the years and there are no indications that we have rounded the corner. There is a constant need for continued efforts by all of us to constantly remind governments that increased R&D funding is required if Canadian research is to stay competitive at the international level. Our representatives have been quite active through the CFBS Science Policy Committee. They require our active support.



Arnold Froese

PRIZES FOR BEST STUDENT RESEARCH PRESENTATIONS: 1990.

Dr. Rick Miller (University of Toronto) coordinated the judging of the student posters entered for competition at the CSI/SCI spring meeting held in March. The winners were selected from more than 70 abstracts which were judged over two evenings. The judges were Drs. Arnold Froese (U. of Manitoba), Kent HayGlass (U. of Manitoba), Rick Miller (U. of Toronto), Linda Pilarski (U. of Alberta/Edmonton), Ed Potworowski (Institute Armand Frappier) and Tania Watts (U. of Toronto). The winners, who were selected based on the excellence of their research and presentation, were chosen after much discussion. They are listed below.

As a means of increasing input by student members of the CSI/SCI, they were asked to describe their backgrounds, current research interests, what they saw themselves doing next and what they thought are the largest challenges faced by graduate students today.

1st Prize

"The Becton Dickinson Award in Immunology" (\$350 and a plaque), Annual Reviews in Immunology, Vol. 8.

Jonathan M. Lee, Department of Immunology, University of Toronto, Toronto, Ontario. M5S 1A1

Title of Poster: "Dissociation and reassociation of Ia-peptide complexes".

2nd Prize

"The Cedarlane Award" (\$250 and a plaque), Annual Reviews of Immunology, Vol. 8.

Bruce Motyka, Department of Medical Physiology, University of Calgary, Calgary, Alberta. T2N 1N4

Title of Poster: "Extensive B-cell death in sheep peyer's patches and the chicken bursa of fabricius occurs by a suicide mechanism".

3rd Prize: \$100, Annual Reviews of Immunology, Vol. 8

Sylvan Fleury, Laboratory of Immunology, Clinical Research Institute of Montreal, Montreal, Quebec. H2W 2R7

Title of Poster: "Identification of the binding sites of the envelop glycoprotein GP120 and class II MHC antigen on the CD4 molecule".

Runners up: Annual Reviews of Immunology, Vol. 8.

Charles Graham, Department of Anatomy, University of Western Ontario, London, Ontario. N6A 3K7

Title of Poster: "Molecular mechanisms controlling trophoblast invasion:.

Albert Descoteaux, Institute of Parasitology, McGill University, Montreal, Quebec. H3A 2T5

Title of Poster: "The *Leishmania* lipophosphoglycan inhibits signal transduction in macrophages.

I received my honours B.S.c. from the Department of Microbiology and Immunology at the University of Western Ontario in 1987. In the fall of that year I began graduate studies in the Department of Immunology in the University of Toronto. Though I entered graduate school as a M.Sc. candidate, I 'reclassified' to the Ph.D. programme in January of 1989. In the two and a half years that I have been in Toronto, I have worked in the laboratory of Dr. Tania Watts. The lab as a whole is interested in the application of biochemical and biophysical techniques to the study of immunological problems. Specifically I am interested in studying the interaction between purified Class II MHC molecules and antigenic peptide. While I feel that immunology is a very exciting discipline, with many questions still unanswered, I also believe that developmental biology holds much future promise. Though it is difficult to predict the future, I anticipate pursuing research work in developmental biology. In particular, I find recent work using the nematode *C. elegans* of great interest.

Being a graduate student has its difficulties. The tremendous growth of the literature makes keeping up in one's own field difficult, and the exploration of other fields problematic. This presents a unique challenge to graduate students as well as to post-docs and scientists, since modern scientific problems must be approached from a multi-disciplinary perspective. Additionally, the high cost of living in many Canadian cities, especially Toronto, often stretches graduate student stipends beyond their limit. I believe, though, that the future holds great promise for graduate students. There is, and will continue to be a shortage of scientists both in industry and in the universities. It is comforting to know that there is an expanding market for the skills learned during our degrees and post-docs.

Jonathan Lee

University of Toronto
Medical Sciences Building
Toronto, Ontario M5S 1A8
Canada

- 1) I obtained a BSc in Cellular, Molecular, and Microbial Biology at the University of Calgary, 1988.
- 2) I enrolled initially as a MSc student in the Department of Medical Science in the fall of 1988. I then switched to a PhD programme in the spring of 1990.
- 3) I enjoy research, and as a career goal would strive to obtain a Faculty position at a University to continue my research interests. Alternatively, I would try to acquire a position in industry (ie. a biotechnology firm).
- 4) In my opinion, the never ending search for research funding is the biggest challenge facing graduate students and prospective graduate students in the 1990's. Funding from government or private industry is almost essential while in graduate school, and at the U of C is a prerequisite for acceptance into the Medical Science Graduate Programme. Unfortunately, scientific research funding seems not to be a high priority of this government. Finding a rewarding and secure position after finishing graduate studies is a major long term challenge.

Bruce Motyka



THE
UNIVERSITY
OF CALGARY

Health Sciences Centre
3330 Hospital Drive N.W., Calgary, Alberta, Canada T2N 4N1

From 1982 to 1985 I pursued my undergraduate studies in Biology-Microbiology at the Faculty of Medicine of the University of Montreal.

Then, I went to the Research Center of Virology at Armand-Frappier Institute in Laval city to obtain my Master degree. I worked on the poliovirus receptor.

I began my Ph.D. in October 1988 in Immunology at the Clinical Research Institute of Montreal with Dr. R.P. Sekaly. In his laboratory, we are working mostly on different aspects of the CD4 molecule and the T cell receptor. My project consists of studying the interaction of the CD4 molecule with the MHC class II antigen and the gp120 of the HIV.

One of the aspects in Immunology that is keeping my attention is the cellular adhesion and activation in response to a stimulus. My objectives are to better understand the structure-function relationships of the surface membrane proteins involved between target cells and effector cells, especially for "Accessory" molecules and proteins of the Integrin family.

I think that one of the biggest challenges for graduate students is to be able to follow any technology development of the 1990's and to be able to apply this technology to a specific problem in a short period of time. The evolution of the technology is rendering research more and more competitive and in the future, only laboratories with sophisticated equipment will be able to compete. However, a researcher with good and original ideas has always his place and will certainly succeed as well as any other sophisticated big laboratory.

Sylvain Fleury
Laboratory of Immunology
Clinical Research Institute of Montreal
110 Pine Avenue West
Montreal, H2W 1R7

" Après avoir complété un B.Sc. en Sciences biologiques (orientation microbiologie) à l'Université de Montréal, j'ai obtenu un diplôme de M.Sc. en Microbiologie et Immunologie du même établissement. Depuis septembre 1987, je suis inscrit au programme de Ph.D. en Parasitologie, à l'Institut de Parasitologie de l'Université McGill. Je prévois terminer à la fin de l'année en cours. Mes intérêts à long terme résident dans l'étude et la compréhension des mécanismes qui régissent la virulence et l'infectivité du parasite intracellulaire des macrophages, *Leishmania donovani*. Lorsque j'aurai complété mon stage post-doctoral (dans le laboratoire du Dr. Sam Turco, de University of Kentucky), je prévois poursuivre ma carrière de chercheur au Canada, en milieu universitaire.

Quant au plus grand défi auquel feront face les étudiants-chercheurs au cours de la prochaine décennie, il m'apparaît évident que l'importance qu'accorde le gouvernement fédéral à la recherche fondamentale vient en tête de liste. En effet, bien que les perspectives d'emploi semblent bonnes, il deviendra très difficile d'obtenir des subventions de recherche si la tendance actuelle se maintient. Il est à espérer que nos politiciens s'ouvriront les yeux avant qu'il ne soit trop tard."

Albert Descoteaux
Institute of Parasitology
McGill University
Macdonald College
21,111 Lakeshore
Ste-Anne-de-Bellevue, Québec

Thank you for your recent letter. I feel it is a very good idea to allow graduate students to express their thoughts in the CSI/SCI Bulletin. I completed an Honours B.Sc. in Microbiology and Immunology at the University of Western Ontario in 1986. I also obtained an M.Sc. in Anatomy in 1988 at Western. For the past two years I have been working towards a Ph.D. in Anatomy. In my long term plans I would like to remain in the university setting, dedicating my time to both teaching and research. My research interests are varied. As a whole, I am interested in studying a normal physiologic condition, namely pregnancy, as a model for understanding cancer (the conceptus resembles a tumour in many ways). To answer your last question, I think the biggest challenge facing graduate students (and other scientists) is convincing the general public and politicians of the importance of basic scientific research and education for the development of a strong national infrastructure. I believe the only way to progress is by investing in research and our people.

Charles H. Graham, M.Sc.
Department of Anatomy
University of Western Ontario
London, Ontario
N6A 5C1

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.

NEW MEMBERS

At this year's spring meeting at the Auberge Mont Gabriel, several new members were welcomed to the Society. They have been invited to provide a brief description of themselves, their academic background and current research interests. The contributions of those who responded are below.

JACK P. ANTEL (M.D., University of Manitoba, 1969)

Current position: Professor and Chairman, Department of Neurology and Neurosurgery, McGill University, 3801 University St., Montreal, QC H3A 2B4. Phone 514 398 8531; FAX 514 398 8540

Current research: Nervous system-immune interactions-human and experimental autoimmune diseases of the nervous system.

ELYSE Y. BISSONNETTE (Ph.D. University of Sherbrooke, 1988).

Current position: Post-doctoral studies, University of Calgary, Calgary, Alberta. T2N 4N1. Phone 403 220 5065; Fax 403 283 4740.

Current research: Modulation of mast cell cytotoxicity by interferon alpha/beta and gamma. Study of gene stimulation by interferons in mast cell.

LISA CARTER (Ph.D., University of New South Wales, Sydney, Australia, 1988)

Current position: Postdoctoral Fellow, University of Calgary, Calgary, AB. T2N 4N1. Phone 403 220 5065; FAX 403 283 4740

Current research: Neuromodulation of immune responses during parasite infection. Immunobiology of neutrophils. Mucosal immunology.

Tariq Ghayur (Ph.D. McGill University, 1987)

Current position: Senior Scientist, BASF Bioresearch Corp.
195 Albany St., Cambridge, MA 02139, U.S.A.
Phone: (617) 349-4563
FAX: (617) 868-9266

Current Research: Proto-Oncogene/Cytokine Gene Expression During Fetal Development: GVH-disease, Hematopoiesis

PHILIP J. GRIEBEL (DVM, U. of Saskatchewan, 1981; Ph.D., U. of Saskatchewan, 1988)

Current position: Postdoctoral Fellowship, University of Calgary
Calgary, Alta. T2N 4N1. Phone- 403 220-4551

Current Research: B cell growth and differentiation - the role of cytokines and surface markers for differentiation. Lymphocyte traffic.

BODIL A. LARSEN (Ph.D., University of Bergen, Norway, 1973)

Current position: Associate Professor, Memorial University of Newfoundland, St. John's, Newfoundland. A1B 3V6. Phone 709 737 6639; FAX 709 737 6400

Current research: HLA and complement in relation to rheumatoid arthritis. Immunogenetics.

RÉAL LEMIEUX (Ph.D., Laval University, 1980)

Current position: Director of research and development, Canadian Red Cross, Blood Services, C.P. 1033 Terminus, Quebec City, G1K 7B5. Phone 418 656 9711; FAX 418 656 9616 - Professeur affilié, Département de biochimie, Université Laval, Québec.

Current research: Monoclonal antibodies. Analysis of Ig gene diversity. Control of proliferation of plasmacytoma/hybridoma cells.

ANDREW J. MALCOLM (Ph.D., University of British Columbia, 1983).

Current position: Scientist, Cellular Immunology Research Group, CHEMBIOMED Ltd., P.O. Box 8050, Station F, Edmonton, Alberta T6H 4N9. Phone 403 450-6800; FAX 403 450-6899.

Current research: Carbohydrate and glycoprotein regulation of the immune response. NK, LAK, T and B cell responses. Vaccine development.

JEAN S. MARSHALL (Ph.D., University of Manchester, U.K., 1983)

Current position: Assistant Professor, McMaster University, Department of Pathology, Room 4H17, 1200 Main Street West, Hamilton, ON L8N 3Z5. Phone: 416 525-9140 Ext. 2473; FAX 416 577-0198

Current research: The regulation of mast cell populations, mast cell mediators, chronic effector cell activation in allergy, IgE regulation.

LUIS H. MARTIN (Ph.D., University of Waterloo, 1984)

Current position: Section Head, Molecular Immunology, Biotechnology Research Institute, National Research Council, Montreal, Que. H4P 2R2 - Phone (514) 496-6374; FAX (514) 496-6232

Current research: T-lymphocyte differentiation; generation and use of monoclonal antibodies for assays and in vivo therapy.

R.M. McKenna (Ph.D. National University of Ireland).

Transplantation Immunobiology, Studies on the Mechanism of Action of Immunosuppressive Drugs.

Telephone - (204) 787-2251

FAX - (204) 787-4826

HELENE-MARIE THERIEN (Ph.D., McGill University, 1978)

Current position : Professor, Université du Québec à Trois-Rivières, Trois-Rivières, QC. G9A 5H7. Phone: 819 376 5052; FAX: 819 376 5012.

Current research : Modulation of the immune response by liposomes: humoral and cellular immunity.

M. JANE TUCKER (PhD., University of Alberta, 1981)

Current position:

- (a) Research Scientist, Multi Organ Transplant Service, University Hospital, 339 Windermere Road, London, Ontario N6A 5A5. Phone (519)-663-3352. FAX (519)-663-3743.
- (b) Assistant Professor, Dept. of Microbiology and Immunology, University of Western Ontario, London, Ontario.
- (c) Associate Scientist, Robarts Research Institute, London, Ontario.

Current research:

Self tolerance and graft tolerance: syngeneic, allogeneic or xenogeneic. The role of the adult thymus.

Canadian Society
for Immunology



Société Canadienne
D'Immunologie

APPLICATION FOR MEMBERSHIP

DEMANDE D'ADHÉSION

NAME OF APPLICANT

NOM DU CANDIDAT

POSITION

POSTE

INSTITUTION

MAILING ADDRESS

ADRESSE POSTALE

Telephone number

Numéro de téléphone

PROFESSIONAL QUALIFICATIONS
(Degrees)

FORMATION PROFESSIONNELLE
(Diplômes universitaires)

Special field(s) of interest

Sujet(s) d'intérêt particulier

Signature of Applicant
(Date)

Signature du candidat
(Date)

SPONSORS (2 members of the
Canadian Society for Immunology)

PARRAINS (2 membres de la
Société canadienne d'immunologie)

1. Name/ Nom

2. Name/Nom

Address/ Adresse

Address/ Adresse

Signature

Signature

INDICATE MEMBERSHIP CATEGORY
RECOMMENDED

INDIQUER LA CATÉGORIE
RECOMMANDEE

1. Member Membre

2. Associate member Membre associé

3. Emeritus member Membre émérite

4. Student member Membre étudiant

Applicants should append a curriculum vitae and a list of publications with full titles.

Please complete this form, obtain signatures of Sponsors, and return with 11 copies, including appendices to:

Les candidats doivent joindre un curriculum vitae et une liste des publications incluant les titres.

Veuillez compléter ce formulaire, obtenir les signatures des parrains, et le faire parvenir en 11 copies (y compris les appendices) à:

CSI c/o, Dr. C.A. Ottaway, Room 6360,
Medical Sciences Building, University of Toronto
1 King's College Circle,
Toronto, Ontario, Canada. M5S 1A8.

CANADIAN SOCIETY OF IMMUNOLOGY

NEW STUDENT MEMBERS: 1990

Ms. Tania Benatar
Mr. Neil Billson
Mr. Jakub W. Cellar
Ms. Isabelle Cloutier
Ms. Monidipia Dasgupta
Mr. Albert Descoteaux
Mr. Sylvian Fleury
Mse. Caroline Fortier
Ms. Sylvie Fournier
Mr. Charles H. Graham
Dr. Edwin Gyorffy
Mr. Nelson K.S. Khoo
Mlle. Monique La Fleur
Ms. Margaret K. Liu
Mr. Jeffrey J. Lysiak
Ms. Josee Morissette
Eustoche Parautiutiotis
Mr. Michael F. Parsons
Ms. Gina Pozzulo
Qiang-hua Meng
Mr. Dale Ramsden
Mr. Sergio Rico-Vargas
Mr. John D. Rioux
Ms. Mary Nel Saarloos
Dr. Lisa K. Selin
Mr. Scott Simpson
Mr. Douglas Tolson
Mr. Renno Toufic
Mr. Eric You-Ten
Ms. Lenore A. Zettel
En-Min Zhou
Mlle. Anne Zwebib

A regular column of invited contributions on issues of the columnist's choice provided by female scientists active in Canadian research. This issue's contribution is from Dr. R. McKenna, Director of the Transplant Immunology Laboratory at the Health Sciences Centre, Winnipeg, Manitoba.

ADVANCEMENT OF WOMEN IN SCIENCE

BY RACHEL MCKENNA

The Royal Society of Canada has recently put forward a plan for the advancement of women in scholarship, especially in science, engineering and technology. Scholarly excellence is the basis for election to the Society which is the only national body dedicated to promoting superior achievement in both the arts and sciences. Currently women form 5% of the overall members and 3.2% of the Scientific Academy.

The society notes that while female university undergraduates have increased greatly in the past 10 - 20 years, the proportion of women in higher ranking positions such as associate and full professor remains very small.

A subcommittee has prepared a report with several recommendations for correcting this imbalance. These include a positive aim to elect more women scholars to the Society and sponsoring outstanding women as visiting lecturers. The report also wants the Society to sponsor conferences and seminars on women's issues as well as research into those factors which most influence a woman's entry into and progress in an academic career.

It is very encouraging to see this prestigious body tackling the problem of the extraordinary under-representation of women in academe. Hopefully their interest will filter down to all scholarly societies and academic institutions. The oft-cited reason for the lack of women in high ranking positions in science is the lack of suitably qualified candidates. It is argued that gender equity will soon be achieved when "all those women get their PhD's in physics and engineering".

Actually women are also under-represented in academic positions in the humanities. For example they form only 18% of top university ranks and 8% of Royal Society members in English Studies.

Plan for Advancement of Women in Scholarship deserves close attention from those of us who want to ensure fair representation for the majority sex (52%) in Canadian society.

The report, *Plan for Advancement of Women in Scholarship* can be obtained for \$6.00 from
The Royal Society of Canada
P.O. Box 9734,
Ottawa, Ontario, K1G 5J4

**THE 1991 BERNHARD CINADER LECTURESHIP
CALL FOR NOMINATIONS**

The Bernhard Cinader Lectureship was established in 1986 to honor an immunologist who has distinguished himself or herself by his/her scientific contribution. The Lecture is the opening event of the CSI spring meeting and has become part of the Society's traditions.

It is now the time of year when we ask you to submit nominations for the 1991 Lecturer. In addition to being scientifically outstanding, candidates should also be good speakers.

If you wish to nominate someone, please send me before October 15, 1990, their c.v. and a statement outlining the reasons why you feel he or she should be selected.

**Dr. E.F. Potworowski
Institut Armand-Frappier
P.O. Box 100
Laval-des-Rapides, Quebec H7N 4Z3**

**CONFERENCE BERNHARD CINADER 1991
APPEL DE CANDIDATURES**

Les Conférences Bernhard Cinader ont été fondées en 1986 pour honorer un/une immunologiste qui s'est distingué(e) par ses contributions scientifiques. La conférence et la remise du diplôme constituent la cérémonie d'ouverture du congrès annuel et font maintenant partie de la tradition de la Société.

Le moment de la soumission de candidatures pour la conférence de 1991 est arrivé. Les candidat(e)s, devront être, non seulement des chercheurs excellents, mais devraient aussi être de bon(ne)s communicateurs/communicatrices.

Si vous désirez soumettre une candidature, veuillez m'envoyer avant le 15 octobre 1990, le c.v. ainsi qu'une note résumant les raisons pour lesquelles vous croyez que votre candidat(e) devrait être choisi(e).

**Dr E.F. Potworowski
Institut Armand-Frappier
C.P. 100
Laval-des-Rapides, Québec, H7N 4Z3**

POSITIONS AVAILABLE

Post-Doctoral Fellow
Graduate Student
Technician



The above positions are now available in the Immunology group of the Marine Gene Probe Laboratory (MGPL). Experience in molecular immunology and/or molecular biology are essential. Positions are for a term of 2-3 years with a possibility of renewal; salaries will be commensurate with experience and competitive internationally. The MGPL is located in the Biology Department of Dalhousie University in Halifax, Nova Scotia and has links with the Ocean Production Enhancement Network (OPEN) centre of excellence, the departments of Oceanography and Biochemistry, and the Bedford Institute of Oceanography. Research will concern the investigation of fish immunology at a molecular level. Applications should include a full curriculum vitae and three references. Contact Dr. Bill Pohajdak, Marine Gene Probe Laboratory, Dept. of Biology, Dalhousie University, Halifax, Nova Scotia, Canada, B3H 4J1.

Dr. A. Froese
Dept. of Immunology
Univ. of Manitoba
6th Flr. 730 William Ave.
Winnipeg Manitoba R3E 0W3