

# BULLETIN

EDITED BY  
MICHEL FOURNIER  
DEPT. SC. BIOLOGIQUES  
UQAM CP 8888  
MONTREAL QUE  
H3C 3P8

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CANADIAN SOCIETY FOR IMMUNOLOGY  
SOCIETE CANADIENNE D'IMMUNOLOGIE

REGIONAL CORRESPONDANT REGIONAUX

Dr. John Bienenstock  
Department of Pathology  
Mc Master University  
1200 Main Street West  
Hamilton, Ontario  
L8N 3Z5

Dr Michel Pagé  
Département de Biochimie  
Université Laval  
Québec, Québec  
G1K 7P4

Dr. R.M. Gorczynski  
Ontario Cancer Institute  
500 Sherbourne Street  
Toronto, Ontario  
M4X 1K9

Dr. Terry Pearson  
Biochemistry Department  
University of Victoria  
Victoria, B.C.  
V8W 2Y2

Dr. F.T. Kisil  
Department of Immunology  
University of Manitoba  
Winnipeg, Manitoba  
R3E 0W3

Dr. J.D. Reynolds  
Dept. of Medical Physiology  
The University of Calgary  
Health Sciences Center  
3330 Hospital Drive N.W.  
Calgary, Alberta  
T2N 4N1

Dr. M. Baines  
Department of Microbiology  
and Immunology  
3775 University Street  
Montreal, Quebec  
H3A 2B4

Dr. Thomas G. Wegmann  
Department of Immunology  
8-45 Medical Sciences Building  
University of Alberta  
Edmonton, Alberta  
T6G 2H7

Dr. R. Mazaheri  
Transplant Immunology Lab.  
University Hospital, Rm. BRE-25  
339 Widemere Road  
London, Ontario  
N6A 5A5

Dr. B.N. Wilkie  
Department of Veterinary  
Microbiology & Immunology  
University of Guelph  
Guelph, Ontario  
N1G 2W1

Dr. Mario Nemirovsky  
Department of Anatomy  
Centre Hospitalier Universitaire  
Université de Sherbrooke  
Sherbrooke, Quebec  
J1H 5N4

Dr. Barbara L. Pope  
Department of Pharmacology  
Sir Charles Tupper Med. Bldg.  
Dalhousie University  
Halifax, Nova Scotia  
B3H 3H7

### Editor's message.

The Bulletin of the CSI should be the line of communication between the executive of the society and its members, as well as between the members themselves. The first part of its mandate is achieved, however the second one has to be improved.

In order to rectify the situation, I am in the process of revision of the mode of operation of the Bulletin. For this purpose, I would like to bring up a board of editors for January 1989. Therefore, all the members which have an interest in this type of work, especially those in the region of Montreal, are invited. Moreover, the good health of the society's budget could allow us to increase the number of volumes published annually.

Among all the services which are provided by the CSI to its members, the Bulletin is the one that each member receives the more often and on a regular basis. Nevertheless, to be fruitful this service has to be fed. In the last 2 years, I have received only 2 or 3 informations which have come directly from members. I am ready to devote more time to the preparation of the Bulletin, but in order to render it more serviceable to all of us, I need the collaboration of all of you. Relevant informations like announcements of conferences, new books, book reviews and commentaries on scientific equipment are among items that could be included.

The Bulletin of the CSI is yours, provide me with the contents and I will publish it for the benefit of all of us. Furthermore, if you have any comments or suggestions on the contents as well as on the structure of the Bulletin, do not hesitate to contact me.

### Message de l'Editeur

Le Bulletin de la SCI devrait être la voie de communication entre l'exécutif de la société et les membres mais aussi entre les membres eux-mêmes. La première partie de ce mandat est bien exécutée, par contre la seconde partie demanderait à être améliorée.

En vue de pallier à cette situation, je suis maintenant à revoir le mode de fonctionnement du Bulletin. Pour ce faire, j'espère mettre sur pied un comité d'édition pour janvier 1989, avis aux intéressés, particulièrement ceux de la région de Montréal. De plus, le budget de notre société nous permettrait certainement d'augmenter le nombre de numéros publiés annuellement. Parmi les services offerts par la SCI à ses membres, le Bulletin est celui que tous les membres reçoivent et cela, régulièrement. Toutefois, pour que ce service d'informations fonctionne, il faut l'alimenter. Dans les deux dernières années, je n'ai reçu que 2 sur 3 informations provenant directement des membres. Je suis prêt à consacrer du temps pour m'occuper du Bulletin, mais pour qu'il soit utile à tous, tous devraient collaborer et m'envoyer les informations utiles aux membres telles que: annonces de congrès, nouveaux livres, commentaires sur les livres, appréciation sur des équipements scientifiques, etc...

Le Bulletin de la SCI, c'est le vôtre fournissez-moi le contenu et je le ferai connaître à tous. De plus, si vous avez des commentaires ou des suggestions à faire pour améliorer tant le contenu que le contenant, n'hésitez pas à communiquer avec moi.



MINUTES OF THE EIGHTH ANNUAL GENERAL MEETING OF THE CANADIAN SOCIETY FOR IMMUNOLOGY HELD ON THE 17TH OF JUNE 1988 ON THE SITE OF LAVAL UNIVERSITY, QUEBEC CITY

The meeting was called to order by President Potworowski. The number of members attending was first enumerated and was determined to be sufficient for the meeting to proceed constitutionally.

1. The Minutes of the 7th Annual General Meeting held the 8th of March 1987 that had been published in the June 1987 issue of the CSI Bulletin were referred to. After first determining whether there was any amendments or corrections to these minutes, there being none it was moved by Dr. Wainberg and seconded by Dr. Froese that the minutes be adopted as previously published. This was passed by the members attending without dissent.

2. There was no business arising from the minutes which were not otherwise being dealt with in the meeting agenda.

3. **Membership Report:**

Dr. Ottaway reported on the membership status of the Society. Since the last Annual General Meeting 25 applications for new membership had been considered by the Society Council and were put forward to the general membership. It was moved by Dr. Lala and seconded by Dr. Osmond that these new members be officially enrolled in the Society's records. This motion was adopted without dissent.

Dr. Ottaway then reported that there had been 17 applications for student membership in the Society and after reading these to the membership it was moved by Dr. Lala and Dr. Osmond that these student members be enrolled in the Society's records. This was adopted without dissent.

Dr. Ottaway then reported that there had been 4 members that had indicated their desire to resign from the Society. It was moved by Dr. Pelletier and Dr. Wainberg that these members' names be removed from the Society's records. This was adopted by the membership without dissent.

It was also noted by Dr. Ottaway that since the last meeting of the Society he had become aware of the death of one member, namely Dr. J. Crookston of Toronto. Dr. Potworowski and the membership expressed their sadness at the loss of this member.



4. Financial Reports:

4a Financial statements for the year ending May 31st 1987. Dr. Ottaway referred to these statements which had been published in the May 1988 issue of the Society's bulletin. He went over them in some detail and pointed out to the membership that the drastic decrease in the amount of monies held by the Society at 1987 compared to 1986 was due to the transfer of monies that the Society had been holding on behalf of the International Congress to the NRC for final accounting and disposition. The monies that were due to the Society did not return to the Society until after the year ending May 31, 1987, and thus, the Society appeared to be in a less advantageous state than it actually was. It was moved by Dr. Wainberg and second by Dr. Pelletier that the financial statements as published for the year ending May 31, 1987 be accepted. This was carried out without dissent by the membership.

4b. Interim Financial Statements for the year ending May 31, 1988. Dr. Ottaway then reported that the Society had just completed its most recent financial year a few weeks before the meeting. He provided a brief overview of the financial status of the Society at that time. Briefly, the amount of money held by the Society at the 31st of May 1988 was approximately \$230,000.00. This position was achieved in large part because of the transfer of approximately \$210,000.00 as the proceeds of the 6th International Congress was given back to the Society as previously agreed by the organizing participants of the Congress. Dr. Ottaway presented an overview of the expenses incurred by the Society and these could be considered in 3 parts. First, approximately \$8,000.00 was disbursed for the memberships of the Society and its members in the Canadian Federation for Biological Societies, the International Union of Immunological Societies, the Youth Science Foundation of Canada, and Canadians for Health Research. A similar amount was disbursed for the operations of the Society, and a similar amount was also disbursed for the programs and activities of the Society.

The programs and activities of the Society include the following: The Perey Memorial Award given as a prize at the National Science Fair, the Cinader Lectureship of the Society sponsored by the Cannaught Research Institute, the Student Bursaries Program for the Scientific Meeting of the Society, the Student Poster Prize, and the Participation of the Society in the Annual Science Policy Workshop.

Dr. Ottaway then reported that the accounts of the Society would be forwarded to the Accountants for detailed examination and the Financial Statements for the year ending May 31, 1988 would be available at a future date.



5. President's Report:

Dr. Potworowski then presented his report on the Society's activities in the past year. He referred specifically to the Scientific Meetings at both Lake Louise and Mont Gabriel which had been viewed both by the Society's executive and the membership attending as marked successes. At the most recent meeting in March of 1988 held in the Laurentians there had been approximately 200 registrants and 95 posters presented. In addition, the three symposia that had been organized appeared to be well received. Dr. Potworowski reported that the FRSQ had agreed to underwrite the meeting to an amount of \$5,000.00. This was with the understanding that if a situation arose in which the revenue of the meeting exceeded the expenses that this would be returnable. In the event, the meeting did make a profit and the \$5,000.00 originally disbursed from the FRSQ has since been returned.

Dr. Potworowski reported on the very successful presentation of the Cinader Lectureship by Dr. A. Sehon of Winnipeg, Manitoba. His presentation had been well received. Dr. Potworowski further noted that there had been good candidates proposed for this lectureship and he encouraged members to renominate these candidates for future consideration and also reminded the membership that nominations are now required for the Cinader Lectureship to be held in 1989 in association with the Scientific Meeting planned for Lake Louise in March of 1988.

Dr. Potworowski referred to financial matters of the Society and reminded the members that it had previously been decided at the 7th Annual General Meeting to protect the principle that had accrued from the Congress and to use the interest in creative ways for sponsoring scientific activities. In meeting specific objectives for such sponsorship included the Travel Bursary Program planned for attendance of Society members at the International Congress to be held in Berlin in 1989. Furthermore, Dr. Potworowski said that the Society would entertain proposals for sponsorship of specific symposia that might be organized by Society members.

Dr. Potworowski reported on the results of a questionnaire which had been circulated with a recent issue of the Society's bulletin. He indicated that many members had indicated that poster sessions and workshops are the most potentially popular means of scientific communication as perceived by the membership. He also reported that small meetings were perceived to be most effective and thus the plans to continue with the format that had previously been developed for the meeting to be held in Lake Louise in March 1989. In addition, however, the institution of workshops will be introduced at the Lake Louise meeting in the



CSI Meeting June 17th 1988

afternoons and members wishing to organize and/or participate in such workshops should get in touch with Dr. H. Rode of Montreal to indicate their desires.

Dr. Potworowski reported that many of the members perceived the science policy activities of CFBS to be of great value to the Society. Thus, it was deemed inappropriate for the Society to change its relationship as it now existed with this organization, although the Society will continue to mount its own scientific programs in the Spring of each year. With respect to future CFBS activities, however, it was pointed out that the next meeting of the Federation was to be held in June 1989 in Calgary. This meeting will also be held in tandem with the meeting of the Genetic Society and it was therefore decided that the CSI would organize a symposium on Genetic themes in Immunology in participation in the Federation meetings.

Several comments were made from the floor. Dr. Froese emphasized that the quality of any scientific meeting was dependent upon the work and participation of the members. Dr. Lala suggested that with the plans for restructuring of the CFBS meetings (shorter length and perhaps fewer venues,) that concentration of the CSI on special themes during participation in CFBS meetings might answer some of the past difficulties that the membership have encountered in participating in CFBS meetings.

Dr. Potworowski then determined that there was no other business to be dealt with at this Annual General Meeting, and reminded the members of the plans for the 9th Annual General Meeting which will be held in conjunction with the CSI Scientific Meeting in Lake Louise, Alberta March 3 through March 5, 1989. All members are encouraged to participate.

Following this the meeting was adjourned.

Respectfully submitted,



C. A. Ottaway, M.D.  
Secretary to the  
Canadian Society for Immunology

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## CORRESPONDENCE ON RESEARCH FROM THE MONTREAL AREA

M.G. BAINES

This article is the second in what will become a series of articles highlighting research in immunology in the Montreal area. This month's article features the Immunology research performed by the staff within the Division of Surgical Research in the Donner Building for Medical Research at McGill University. This unit fuses research on Basic Immunology performed by Drs. J. Gordon, H. Rode and P. Brodt with Clinical Immunology performed by Drs. J. Meakins, N. Christou and H. Shibata. The focus of the research by this group is the subject of immunological anergy and its consequences as applied to surgery and surgical infections.

The unique feature of this group is the integration of basic research activities in immunology, training programs for graduate students and clinical fellows and the Surgery teaching activities with those of surgeons in the Department of Surgery engaged in research in surgical infections and cancer. For research, this association provides practical insights and clinical goals from individuals with different backgrounds of Medicine and points of view, thus complementing and sharpening the research activities of the entire group. For training, it offers motivation and challenge broadening the scope of the students in both basic and clinical streams.

The main focus of immunological work (Gordon, Rode, Meakins, Christou) is the study of anergy which is a transient form of immunodeficiency identified as a lack of DTH responsiveness to recall antigens. Anergy, detected pre- or post-operatively, is associated with an increased risk of post-operative sepsis and death. The research aim is to elucidate the nature of immunological anergy and thereby find ways to correct it.

Recent findings and the thrust of ongoing projects within this program may be summarized as follows: anergy extends to both cell-mediated and to humoral immune responses and thusfar appears to operate only in vivo. Thus in vitro correlates of the DTH reaction, e.g. the proliferative response to antigens used in DTH appear to be normal, as well as antibody synthesis in vitro (to SRBC) is undiminished. Anergy in DTH could be overcome by injecting cells (or cell-free supernatants containing cytokines) activated with the skin test antigen in vitro, thus localizing the defect in anergy to a lack of T cell mobilization or activation in vivo. The study of this phenomenon in patients has been facilitated by the development of a non-invasive method utilizing skin windows allowing recovery, phenotypic and functional analysis of cells (or clones derived from them) attracted to a DTH site. This approach is also being used to characterize the elusive T-DTH cell, and to study the bacteriocidal function of activated PMN to different organisms in man in vivo. Another aim of these experiments is to characterize the cytokine (CK) which can restore the DTH reaction, elucidate its mode of action and thereby obtain information pertaining to anergy as well as to the mechanism of the DTH reaction.

Two abnormalities relative to B cell function have been identified in anergy. One, the absence of an antibody response directed to protein antigens did not extend to polysaccharides: the implications of this observation to anergy in particular and to the antibody response in general is the subject of further inquiry. The second finding identified an elevated spontaneous Ig secretion in vitro, and perhaps in vivo. Current experiments imply that this increase may be an attribute not of anergy but of aging and which have led to investigations of the antibody response in aged anergic, and normal reactive individuals.



Proven animal models of anergy are not available at present: increased mortality following an acute peritonitis in rats has been obtained following immunosuppression induced by a 30% thermal injury. Interest in this model stems from the ability to protect such animals by the injection of the same cytokine preparations which could restore DTH responsiveness in anergic patients. Parallel studies of the identify and mode of action of this CK is being pursued in the two models.

It would appear that anergy is not due to cellular defects per se, but may be a reflection of altered immunoregulation, with the insult provided by enteric bacteria. Hence to probe possible causes of anergy a murine model is being used to study the interface of mucosal and systemic immunity with particular reference to suppressor and contrasuppressor cells and enteric organisms. These studies are linked with other projects on immunoregulation carried out by Dr. J. Gordon concerning suppression and contrasuppression in cancer and in B lymphocyte-deprived mice.

A second clinical-experimental axis is that of H. Shibata and P. Brodt in research on cancer and metastatic disease. The overall aim of the research in this laboratory (P. Brodt) is to gain an understanding of the biology of the process of tumor dissemination and metastasis and to attempt to inhibit this process by immunological intervention.

Studies to date using a mouse tumor model have shown that the target organ of metastasizing tumor cells may be determined on the basis of the availability on the tumor cell surface of adhesion molecules specific for host tissue components of that organ. Thus, using monoclonal antibodies (MoAb) produced against the surface adhesion molecular of a lymphatically metastasizing tumor cell and an in vitro adhesion assay, a cell surface determinant (M.W. 38 KD) which appears to mediate tumor cell binding to the invaded lymph nodes was identified.

In collaboration with Dr. H. Shibata attempts are now in progress to identify similar molecules in highly metastatic human melanoma cells. In this project aimed at identifying cell surface molecules relevant to the formation of hepatic metastases, a MoAb was recently obtained which blocks tumor cell adhesion to hepatocytes in vitro and inhibits liver metastasis in vivo when applied to the tumor cells prior to injection into the animals. Characterization of the target molecule of the antibody is now in progress.

In a third project (in collaboration with Dr. N. Phillips, (MGH) it was found that liposomes-encapsulated Muramyl dipeptide (MDP) blocks the establishment of experimental liver metastasis when administered prior to tumor inoculation. The data shows that the inhibition of liver metastases is likely mediated by hepatic Kupffer cells activated by the liposomal MDP.

Currently the efficacy of this immunomodulator in animals whose local tumors have been surgically removed is being tested in a model of post-surgical liver metastasis. Studies with human tumors in athymic nude mice are also planned.

This research group is complimented by 10 graduate students and several research associates and technicians. Further information on this group can be obtained by writing to Dr. J. Gordon, Division of Surgical Research, Donner Bldg., McGill University, H3A-1A4 or by phoning (514) 398-3981.

Send all submissions for future publication to:

Dr. M.G. Baines  
3775 University Street, Room 404  
Montreal, Quebec H3A 2B4 Canada

Telephone number (514) 398-3928

NOMINATIONS INVITED FOR SOCIETY OFFICE

ELECTIONS FOR OFFICERS OF THE SOCIETY  
WILL OCCUR IN EARLY 1989.

MEMBERS ARE INVITED TO NOMINATE INDIVIDUALS AS CANDIDATES FOR THESE ELECTIONS.

Nominations for candidates for Councillor must be sponsored by five (5) members of the Society. Nominations for Vice-President must be sponsored by ten (10) members of the Society.

Please send nominations with:

- a) a signed list of sponsoring members,
- b) a short C.V. of the nominee,
- c) a brief statement of his or her views regarding the future of the Society, and
- d) a signed statement by the nominee that he or she is willing to serve the Society in the nominated position.

Forward Nominations to:

DR. J. BIENENSTOCK  
CHAIRMAN, CSI NOMINATIONS COMMITTEE,  
DEPARTMENT OF PATHOLOGY,  
MCMASTER UNIVERSITY,  
HAMILTON, ONTARIO, L8N 3Z5

NOMINATIONS POUR LES CONSEILLERS DE LA SOCIÉTÉ

LES ÉLECTIONS AUX POSTES DE CONSEILLERS  
POUR LA SOCIÉTÉ SE FERONT AU DÉBUT DE  
1989

LES MEMBRES SONT INVITÉS À DESIGNER DES  
CANDIDATS POUR CETTE ÉLECTION

Les nominations de candidats pour les postes de conseillers doivent être parrainées par au moins 5 membres de la société et celles au poste de vice-président doivent être contresignées par au moins dix membres.

Le dossier de candidatures doit comprendre

- a) une liste des parrains avec leur signature
- b) un court c.v. du candidat
- c) un court texte du candidat exposant ses positions sur le futur de la société
- d) un court texte des parrains sur les capacités du candidat à occuper le poste

Le tout doit être envoyé à



#### CSI SPRING MEETING - STUDENT AWARDS

As in the past two years, the CSI will once again provide a number of awards and bursaries to graduate students who are also student members of the CSI. Two categories of awards will be presented.

Travel Bursaries: A total of five awards of up to \$500 will be made and candidates will be selected by a jury of three CSI members. To apply, students should submit in triplicate a covering letter, their abstract, their curriculum vitae and a letter of recommendation from their supervisor which should justify the need for financial assistance.

Best Poster Awards: Through the effort of John Reynolds of Calgary and the generosity of Becton Dickinson Canada Inc., the CSI is now in a position to present a \$300 cash award and scroll to the graduate student who presents the best poster at the Spring Meeting. It will be awarded annually and will be known as the Becton Dickinson Student Award in Immunology. The second prize will consist of \$100 made available by the CSI. In addition, book prizes will be given to students who have presented the five best posters. Students who wish to be considered for these awards, students should indicate this on the Abstract Form and submit three additional copies of their abstract.

Applications for awards in both categories should be submitted to:

Dr. John Reynolds  
Dept. of Medical Physiology  
University of Calgary  
3330 Hospital Dr. W.  
Calgary, Alberta, T2N 4N1

Deadline: January 6, 1989.

### 7th International Congress of Immunology

The Organizing Committee of the 7th International Congress of Immunology, to be held in Berlin West, July 30 to August 5, 1989 cordially invites all members of the Canadian Society for Immunology to participate in the Congress. Those who would like to participate should contact either the Congress Bureau, DER Congress, Augsburger Str. 27, D-1000 Berlin 30, or

Dr C. Ottaway  
Dept. of Medicine  
St. Michael's Hospital  
University of Toronto  
Toronto, Ont.  
M5S 1A8

The 2nd announcement containing all relevant information about the scientific program, the social program abstract and registration forms, as well as logistic details will be mailed directly to each member of the CSI by Dr. C. Ottaway in the coming weeks. The deadline for submission of abstracts is January 16, 1989. The deadline for registration with reduced registration fee is April 2, 1989.

### 7ème Congrès International d'Immunologie

Le Comité Organisateur du 7ème Congrès International d'Immunologie, qui se tiendra à Berlin ouest du 30 juillet au 5 août 1989, invite cordialement tous les membres de la Société Canadienne d'Immunologie à participer au Congrès.

Des informations concernant ce congrès sont disponibles en Allemagne au Bureau du Congrès, DER Congress, Augsburger Str. 27, D-1000 Berlin 30 et au Canada en s'adressant au

Dr C. Ottaway  
Dept. of Medicine  
St. Michael's Hospital  
University of Toronto  
Toronto, Ontario  
M5S 1A8

La seconde brochure d'informations, contenant tous les détails concernant le programme scientifique, les événements sociaux, le formulaire d'inscription de même que toutes les informations logistiques, sera envoyée à chaque membre de la SCI par Dr C. Ottaway dans les prochaines semaines. La date limite pour soumettre un abstract a été fixée au 16 janvier 1989 et la date limite pour bénéficier d'une réduction dans les frais d'inscription a été fixée au 2 avril 1989.



# LIST OF CSI EXECUTIVES

<u>President</u> <u>Président</u>	E. Potworowski	Institut Armand Frappier 531, bould des Prairies, C.P 100 Ville de Laval, Quebec H7N 4Z3 (514) 687-5010
<u>Vice President</u> <u>Vice Président</u>	A. Froese	Department of Immunology University of Manitoba 6th Fl., 730 William Avenue Winnipeg, Manitoba R3E 0W3 (204) 788-6509
<u>Secretary</u> <u>Secrétaire</u>	C. Ottaway	Rm. 6360, Medical Sciences Bldg. University of Toronto Toronto, Ontario M5S 1A8 (416) 978-7188
<u>Past President</u> <u>Ancien Président</u>	J. Bienenstock	McMaster University Department of Pathology, Rm. 2N16 H.S.C. Hamilton, Ontario L8N 3Z5 (416) 521-2100 ex. 6332
<u>Councillors</u> <u>Exécutif</u>	D. Befus	Gastrointestinal Research Unit Dept. of Microbiol. & Infec. Diseases HSC, 3330 Hospital Dr., N.W. Calgary, Alberta T2N 4N1 (403) 220-4560
	W. Lapp	Department of Physiology McGill University Montreal, Quebec H3G 1V6 (514) 392-3081
	H.-S. Teh	Department of Microbiology University of British Columbia Vancouver, B.C. V6T 1W5 (604) 228-2850
	R. Painter	Department of Biochemistry University of Toronto Toronto, Ontario M5S 1A8 (416) 978-8740
	M. Rola-Pleszczynski	Centre Hospitalier Universitaire de Sherbrooke Sherbrooke, Quebec J1H 5N4 (819) 563-5555
	S. Singhal	Dept. of Bacteriol. & Immunology University of Western Ontario London, Ontario N6A 5C1 (519) 679-2111
<u>Editor of Bulletin</u> <u>Editeur du Bulletin</u>	M. Fournier	Dept. des Sciences biologiques Université du Québec à Montréal C.P. 8888, Succursale A Montreal, Quebec H3C 3P(514) 282-3345

## 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  
RECOMMENDEDINDIQUER LA CATÉGORIE  
RECOMMANDÉE

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.Les candidats doivent joindre un  
curriculum vitae et une liste des  
publications incluant les titres.Please complete this form, obtain  
signatures of Sponsors, and return  
with 11 copies, including appendices  
to::Veuillez compléter ce formulaire,  
obtenir les signatures des parrains,  
et le faire parvenir en 11 copies  
(y compris les appendices) a: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.I wish to receive correspondence  
in English \_\_\_\_Je desire recevoir la correspondance  
en français \_\_\_\_