

B U L L E T I N

CANADIAN SOCIETY FOR IMMUNOLOGY
SOCIETE CANADIENNE D'IMMUNOLOGIE

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EDITOR'S MESSAGE DE L'EDITEUR

CSI Meeting / Réunion SCI

Joined with information and registrations form are the Bulletin in a separate enveloppe. In this issue of the Bulletin there is a message from Arnold Froese to graduate students on awards.

Dans cet envoi, vous trouverez dans une enveloppe toutes les informations pour la réunion du printemps. Dans le présent Bulletin, il y a un message d'Arnold Froese aux étudiants de 2e et 3e cycle sur les différentes bourses.

Bulletin

After one year as editor of the Bulletin I would like to know your feeling about this medium of communication between CSI members and try to find new ways to improve it content. For the purpose a small questionnaire will be add to the next issue to let you the chance to drop it at Mont-Gabriel. Meanwhile, if you have any suggestion, do not hesitate to contact me. This Bulletin is yours and should correspond to what you want it to be.

Après un an comme éditeur du Bulletin, il est temps de faire le point sur son contenu. A cette fin, le prochain numéro contiendra un sondage à remettre lors de la réunion du Mont-Gabriel. Entretemps, je suis ouvert à toutes suggestions. Ce bulletin de liaison entre les membres de la CSI est le vôtre et il doit correspondre à vos attentes.

Next issue / prochain numéro

The next issue of the Bulletin will be in March '88. It will contain all the abstracts of the CSI meeting. The information you want to be published in this issue should be send by the beginning of February.

Le prochain numéro du Bulletin sera publié en mars 1988. Il contiendra les résumés des présentations. Toutes les informations à être publiées dans ce numéro devront m'être envoyé pour le début février.

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REGIONAL CORRESPONDANT

MONTREAL: H.N. Rode and M.G. Baines

As usual at this time of year, many researchers including your correspondent are involved writing grants. It is somewhat encouraging to hear that the government has agreed to supplemental funding for the granting agencies. In order to increase our effectiveness in educating the public and the government about the benefits of research in Immunology, perhaps it would be appropriate to follow the lead of the Department of Immunology at the University of Montreal which has prepared a review of their research (Recherches à l'Université de Montréal, Vol. 1, #3 which is available to the public and press.

The research group in Immunobiology, University of Montreal, has recently named Dr. S. Montplaisir as Chairman for the next two years (1987-89). This is a multidisciplinary group of researchers with specialties in Microbiology, Immunology, Pathology and Hematology, located not only on the University Campus but also at the Maisonneuve-Rosemont and St. Justine Hospitals and the Blood Transfusion Service of the Canadian Red Cross in Montreal. There are more than 20 graduate students in the various laboratories. The principal areas of research are on the regulation of the immune response, immuno-mycology and immune-prophylaxis.

The Immunology Research Centre at the Institut Armand-Frappier has established a collaborative project with Rega Institute Louvain Belgium on the role and amplification of cytokines in defense against infections, cancer and inflammatory diseases. The scientists involved in the project are Drs. S. Lemieux, V. Micusan, D. Oth and M-C. Walker. There has already been an exchange of researchers and reagents. The Center is currently searching for a Molecular Immunologist - interested applicants should contact Dr. E. Potworowski.

Montreal has the strength of a large number of outstanding researchers in Immunology but the disadvantage of having these researchers dispersed not only among the various universities and hospitals but also among departments within the institutions. A central focus for both academic and investigative purposes is needed to concentrate this expertise and provide the intellectual feedback required to further the science of Immunology in Montreal.

At McGill University, a research program on the MHC in transplantation and insulin-dependent diabetes mellitus is in high gear. The research group, supported by grants from the MRC, Juvenile Diabetes Foundation, Canadian Diabetes Association and FRSQ, is made up of Drs. Ron Guttman, Abe Fuks, Eleanor Colle, Gerry Prud'homme, Philippe Poussier, Clarke Forbes, Tom Seemayer a number of graduate students and post-doctoral fellows. A major area of emphasis is in transplantation is the identification and functional modulation of interstitial dendritic cells which appear to have a genetic basis for their prevalence in tissues and their expression of Class II MHC molecules. These may be the significant antigen presenting cells in the organ allograft and attempts to eliminate the cells or modulate their function is a major thrust of investigation. In the area of diabetes, using highly inbred strains with standards and recombinant haplotypes it has been possible to estimate the number of genes involved in this spontaneous-onset disease model, develop relevant congenic lines and map the MHC component of the disease. Several significant findings have emerged from these studies which have indicated that a mutant MHC is not responsible for susceptibility to the disease and that the portion of the MHC which lies between the two Class I regions in the rat can be replaced with haplotypes or sub-regions of haplotypes from animal strains that never developed the disease, i.e. the MHC is permissive. Other significant studies relate to the MHC restriction in islet cell damage and the molecular biology of the control of Class I and II expression in isolated islet cells. The group now has developed a line of diabetic rats which has the clinical disease, histocompatibility requirements, but appears not to have the pancreatic inflammation as an important component in the disease picture. This model* is being explored in detail to determine the mechanisms of pathogenesis.

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REGIONAL CORRESPONDANT
Expansion

REGIONAL CORRESPONDANT

TORONTO: J. Stanley and R. Gorczynski

Expansion and diversity are the key words which describe immunological research in Toronto.

More Specifically the University of Toronto Department of Immunology and Surgery in collaboration with the Canadian Red Cross is establishing a new Transplantation Immunology Research unit in the St. Patrick Street Red Cross building. Active recruitment for a research director is now in progress. Potential candidates may apply for this position by contracting Dr. B. Langer, chairman of Immunology and Surgery at U. of T.

The following selected highlights from Toronto's immunological research community reflect the broad research base operating in this city.

D. Tanya Watts has recently completed the installation of a laser-microspectrofluorometer. This sophisticated equipment was designed to study the membrane-membrane interfaces in cell recognition using fluorescence as a probe.

Dr Watts is addressing one of the most challenging problem in the area of cell-cell recognition in the immune system. That is, the problem of dual recogniton of antigen in association with self proteins encoded by the Major Histocompatibility Complex. Planar membranes containing the peptide antigen and IA are used to present antigen to the T cell receptor contained in liposomes to define the spatial relationship between proteins involved in antigen recognition by T cells.

Dr Brian Barber's recent research effort may offer a new approach to the establishment of protective immunity: adjuvant-independent antibody responses.

To circumvent the problem of weak antibody responses to protein antigen in the absence of potent adjuvant, Dr. Barber has coupled the biotin-binding protein avidin to a biotinylated anti-class II MHC monoclonal antibody. Immunization of mice with these complexed molecules resulted in high antibody titers in the absence of adjuvant. Modification and refinement of this technique may lead to the development of more effective vaccines for those antigen which are weakly immuno-genic. (Nature, 327: 59-61).

Dr. John Roder in collaboration with Dr. Robert Dunn has succeeded in isolating and identifying a cDNA clone for myelin-associated glycoprotein (MAG). MAG is an integral membrane protein found on oligodendrocytes. It is hypothesized that this protein serves as a cell adhesion molecule for neuron-oligodendrocyte interaction triggering the formation of the myelin sheath around the neuronal axon. Since MAG displays about 20% homology to members of the supergene family, it is believed that a MAG and members of the Ig supergene family have emerged from a common primordial gene. (PNAS, 84:600-604).

Dr. Tak Mak's groupe has now completed mapping the T cell receptor alpha locus-one million base pairs. Integrated within this locus are 2 joining regions and 1 constant region which Dr. Tak Mak believes form the delta chain, of the T cell receptor. He has hypothesized that this delta chain is formed by the rearrangement of an alpha variable gene to a delta joining and constant region. Circunstantial evidence has led Dr. Tak Mak to further speculate that the expression of a delta chain early in the T cell ontogeny reflects the initial rearrangement of the delta J-C joining to a V-Alpha segment. A second rearrangement, occuring later in T cell ontogeny would combine a V-alpha sequence to a J-C alpha region. The presence of a region where rearrangement occurs sequentially would predispose that gene segment to breakage (hot spot) and hence translocation, a phenomenon commonly observed within the variable region of the alpha locus. Translocations envolving chromosome 14, and in particular the alpha locus, have been observed in a number of diseases including T cell leukemia, Ataxia Teleangastasia and Wilm's Tumor.

Bourses et prix pour les étudiants de la SCI

À sa réunion du Lac Louise, l'exécutif de la SCI a changé les conditions d'éligibilité aux prix et bourses pour les étudiants. À partir de maintenant pour avoir accès aux bourses et prix de la SCI, les étudiants devront être membres. Pour ces membres étudiants, sur la base d'un concours, seront disponibles:

- 1- Bourses de voyage pour couvrir une partie de frais encourus pour assister à la réunion annuelle de la SCI
- 2- Prix pour les meilleures présentations lors de la rencontre annuelle

1- Bourses de voyage:

Pour être éligible, les membres étudiants doivent soumettre un résumé de présentation pour la réunion de la SCI. Ces étudiants devraient normalement être inscrits dans une université canadienne. Le candidat doit faire parvenir au secrétaire de la société 3 copies d'une lettre de présentation, du résumé et de leur curriculum vitae. Une lettre de recommandation par le directeur des travaux devra aussi être envoyée.

Cinq bourses seront disponibles. Le montant sera proportionnel à la distance à couvrir. Le maximum est fixé à \$500. Des reçus de voyage (frais de voyage ou d'hôtel) seront exigés. Les récipiendaires seront avisés à l'avance.

Le juré est composé du vice-président de la SCI et de deux membres de l'exécutif.

2. Prix des meilleures présentations. L'application se fait en cochant la case appropriée sur le formulaire de résumé de présentation. L'étudiant devra soumettre une copie du résumé et une lettre d'intention. Si l'étudiant fait applications pour ce prix et une bourse de voyage, une lettre de présentation spécifiant la double candidature est suffisante. Toutefois, 3 copies du résumé doivent être envoyées. Les prix sont octroyés sur la base de la qualité de la présentation, du contenu scientifique et de la forme de l'affiche ("poster"). Les prix sont généralement des livres et leur nombre peut varier d'une année à l'autre. La meilleure présentation est, de plus, gratifiée d'un prix de \$100.

Le jury est constitué de 6 membres de la SCI incluant le Vice-Président et le président de la session.

Les candidatures aux bourses et/ou aux prix; de même que les lettres de recommandation doivent être envoyées au secrétaire-trésorier de la SCI: Dr. C. Ottaway, Medical Sciences Bldg, R-6360, University of Toronto, 1 King's college Circle, Toronto, Ontario M5S 1A8. La date limite est celle spécifié pour la réception des résumés pour le congrès.

ATTENTION

Les candidats doivent soumettre leur résumé et le formulaire d'inscription aux organisateurs de congrès.

POSITION AVAILABLE

MOLECULAR IMMUNOLOGIST

The Institut Armand-Frappier is seeking a Molecular Immunologist for a tenure tract position at the Assistant or Associate Professor level in the Immunology Research Center. The Center presently has 8 professors whose research is principally concerned with both fundamental and applied aspects of the immune response against malignancies and infections. Around 20 graduate students and postdoctoral fellows are undergoing training in the Center.

Applicants should have obtained a Ph.D. in a pertinent area and have completed postdoctoral training in Molecular Immunology. An aptitude for teaching and the capacity to work in collaboration as part of a team are considered to be additional desirable qualities. A working knowledge of French is required.

Salary: According to the Collective Agreement.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. All interested individuals should send, before November 30, 1987, their curriculum vitae and the name and address of three references to the address below.

IMMUNOLOGISTE MOLÉCULAIRE

L'Institut Armand-Frappier est à la recherche d'un professeur régulier, de niveau adjoint ou agrégé, pour assumer des fonctions d'immunologue moléculaire au sein du Centre de recherche en immunologie. Cette unité administrative compte présentement 8 professeurs dont les travaux de recherche portent principalement sur les aspects fondamentaux et appliqués des mécanismes immuns dans le cancer et les infections. Une vingtaine d'étudiants gradués et de stagiaires post-doctoraux y poursuivent leur formation.

La personne retenue devra détenir un Ph.D. dans une discipline pertinente et avoir acquis une expérience post-doctorale de recherche en immunologie moléculaire. Des aptitudes à enseigner et des capacités à travailler en équipe seront considérées comme atouts additionnels.

Salaire: selon la convention collective.

Conformément aux exigences en matière d'immigration au Canada, ce poste s'adresse prioritairement aux citoyens canadiens et aux résidents permanents. Toute personne intéressée à ce poste est priée de faire parvenir, avant le 30 novembre 1987, son curriculum vitae et le nom de trois personnes pouvant témoigner de sa compétence au:

Président du comité de sélection
Service des ressources humaines
Institut Armand-Frappier
531 boulevard des Prairies, C.P. 100
Laval-des-Rapides
Laval, Québec, CANADA
H7N 4Z3

POST-DOCTORAL FELLOWSHIP

POST-DOCTORAL FELLOWSHIP, available autumn 1987. Metabolism of tissues in inflamed joints. Candidates should have experience in connective tissue immunology and biochemistry. Personal support at the level of the Canadian Medical Research Council, to which application will be encouraged. Apply: Dr. Derek Cooke, Department of Surgery Queen's University, Kingston, Ontario, Canada, K7L 3N6

NOTE FROM EDITOR: STILL AVAILABLE

BOOKS / LIVRES

AVAILABLE NOW

DISPONIBLE MAINTENANT

- 1- MONOCLONAL ANTIBODIES: PRINCIPLES AND PRACTICE. J.W. Goding, 2nd Ed. Academic Press, 1986, 315 p. Canadian Source: Harcourt Brace Jovanovich, 55 Barber Green Road, Don Mills, Ontario M3C 2A1.
- 2- ADVANCES IN IMMUNOLOGY VOL. 40. F.J. Dixon Ed. Academic Press. 1987, 450 p. Canadian Source: Harcourt Brace Jovanovich, 55 Barber Green Road, Don Mills, Ontario M3C 2A1.
- 3- IMMUNOTOXICOLOGY. A. Belin et Al. Ed. Martinus Nijhoff Publishers 1987, 495 p. Source: Kluwer Academic Publishers. P.O. Box 358 Accord Station, Hingham, Ma 02043 - 0358, U.S.A.

AVAILABLE IN 1988

DISPONIBLE EN 1988

- 4- CYTOTOXIC T CELLS: BIOLOGY AND RELEVANCE TO DISEASE. J.R. Battisto et al. Source: New York Academy of Sciences (NYAS) # 8804.
- 5- THE BIOLOGY OF THE LEUKOTRIENES. R.D. Krell and R. Levi. Source NYAS # 8808.
- 6- SECOND INTERNATIONAL CONGRESS OF NEUROIMMUNOLOGY. C.S. Raine. Source NYAS # 8809.
- 7- MOLECULAR BASIS OF THE IMMUNE RESPONSE. C.A. Bona and M.L. Gefter. Source NYAS # 8816.
- 8- ENDOCRINE, METABOLIC AND IMMUNOLOGIC FUNCTIONS OF KERATINOCYTES. L. Milstone and R. Edelson. Source NYAS # 8817.
- 9- NEUROIMMUNOMODULATION: INTERVENTIONS IN AGING AND CANCER. First Stromboli Conference on Aging and Cancer W. Pierpaoli et al. Source NYAS # 8822.
- 10- MOLECULAR AND CELLULAR CONTROLS IN HEMATOPOIESIS. D. Orlic. Source NYAS # 8829.

REWARD

RECHERCHE

The address of the people listed here is incorrect or incomplete. If you have their complete address, please send it to Cliff Ottaway (see page 2).

Les adresses des personnes suivantes sont incorrectes ou incomplètes. Si vous connaissez l'adresse complète d'une de ces personnes, veuillez l'envoyer à Cliff Ottaway (voir page 2).

- | | |
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| 3. Dr. P.C. Creemers
(MOVED) | 10. Dr. V.K. Singh |
| 5. Dr Irma Lemaire | 11. Dr. C. Shiozawa
Dept. of Immunology
Faculty of Medicine
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Edmonton, Alberta |
| 6. Dr. Peter Milthorp
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| 7. Ontario Medicine
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APPLICATION FOR MEMBERSHIPDEMANDE D'ADHESION

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) 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.

I wish to receive correspondence

Je désire recevoir la correspondance