

INSIDE
1995 CONGRESS
TRAVEL AWARD
APPLICATION



BULLETIN

CANADIAN SOCIETY FOR IMMUNOLOGY

SOCIÉTÉ CANADIENNE D'IMMUNOLOGIE

JUNE, 1994

V. 25, No. 1

0068-9653

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CALL FOR APPLICATIONS FOR CSI TRAVEL AWARDS TO THE
9th INTERNATIONAL IMMUNOLOGY CONGRESS
SAN FRANCISCO JULY 23-29, 1995

The CSI will offer a limited number of awards to students, postdoctoral trainees, and junior faculty members for travel to the 9th International Immunology Congress. The maximum individual award value will be \$1,500 in Canadian funds. Only the costs of economy airfare, registration and accommodation are eligible for support by these awards.

The following requirements apply for eligibility for a travel award:

- 1) Applicants must be fully paid up members of the CSI.
- 2) An up to date resume must accompany each application.
- 3) Awards will only be given after proof of acceptance for presentation at the meeting is provided.
- 4) Student/postdoctoral applicants must provide a letter of recommendation from their supervisor.
- 5) Any supervisor will be eligible for a maximum of one award to members of their laboratory.
- 6) Applications from Junior Faculty Members are to be accompanied by a letter from their Chairperson or Dean indicating a commitment by them to provide supplemental financial support to cover the additional expenses of attending the meeting.

APPLICATION DEADLINE SEPTEMBER 30, 1994

**FORWARD APPLICATIONS AND ANY APPENDED MATERIALS IN
QUADRUPLICATE TO:**

**Dr. LINDA PILARSKI
DEPARTMENT OF IMMUNOLOGY
UNIVERSITY OF ALBERTA
EDMONTON, ALBERTA T6G 2H7**

BOOK REVIEW

Trevor Owens (McGill) has reviewed Autoimmunity: Physiology and Disease by Coutinho and Kazatchkine. Published by Wiley-Liss (Cloth, 474 pages ISBN 0471-59227-7), it sells for US\$84.95. Ordering information: 1-800-263-1590.

Coutinho and Kazatchkine set themselves a difficult task in undertaking this volume. Their preface describes the goal as being to reconcile the views of reductionist or component-oriented (clonalists) and system-oriented (networkers) researchers in autoimmunity. In so describing their goal, they may have inadvertently fallen into the trap of duality, described by Zanetti as an affliction of Occidental culture. I personally doubt whether such dualism reflects philosophical differences as much as operational necessity. For this reason, I was a little unsure of my decision to review this book, fearing that the editors would not be able to avoid putting their own 'spin' on the contents, and/or that it would end up as a collection of out-of-date research reports from Big Names in The Business. My worries were largely unfounded.

The diversity of contributors is gratifying. One's initial temptation might be to dip in and read one's favourites, in isolation from the rest. Although this can work for certain chapters, e.g., that on quantification of autoreactive lymphocytes by Zubler *et al.*, the complete and thorough review of B-1 cells and autoantibodies by Casali *et al.*, or Victor and Capra's comprehensive data on specificity-related antibody gene usage and the autoimmune Ig repertoire, it was actually more satisfying to take this book from beginning to end, and follow the theme laid out by the editors.

In their Introductory chapter, the editors expand on the system-versus-components theme by reminding us of the paradigm shift ("never, sometimes, always") that has taken place in autoimmune research since the days of Ehrlich. Self-response can now be viewed as an essential component of normal homeostasis. The paradigm shift has been accompanied by an evolution in the jargon, which can act like regional accents in 'placing' the speaker. Kinder, gentler terms like Homeostasis and Anergy now substitute for Network Regulation and Clonal Deletion.

The book is somewhat arbitrarily divided into two sections: Physiological autoimmunity and Autoimmune Disease. The first section is necessarily more speculative, and contains some very enjoyable essays by Cohen, Janeway, Zanetti and Miller, to name a few. Cohen, in his struggle to define the distinction between self and non-self, identifies the kind of logic that likely led to more recent formulations such as Matzinger's (who unfortunately does not feature here) e.g., given that there really is no structural difference between self and non-self, how does the immune system organise itself for differential response? In answer to this, Miller complements Janeway's direction of our attention to T cell activation by reviewing his and other experiments that reveal 'ignorance' of autoreactive T cells of autoantigens as a combined consequence of lower avidity, insufficient help or inappropriate presentation, all of which contribute to functional tolerance (so the difference is contextual). A point that is brought up by Zanetti, but which recurs throughout the volume, is the question of relevance of the circulating pool of Ig and T cells as indicators of human disease, in light of the non-pathogenicity of most circulating autoantibodies and the sequestering of autoreactive effectors in target tissues.

The Sakaguchis' description of release of autoreactive T cells from neonatal thymus, or post-thymic insult and the increasingly-documented observation that CD4 T cells from normal animals can alleviate autoimmune disease complements Ellen Heber-Katz's tantalising data and speculation on the occurrence of an EAE-associated V β sequence in neonatal and nude spleen, suggesting extrathymic development of autoreactive T cells. Cooke and Baxter's chapter on IDDM is a well-reasoned and extensively cross-referenced essay on the general strategies for exploitation of natural regulation to prevent organ-directed immunity. This is a sampling of the natural regulation to prevent organ-directed immunity. This is a sampling of the material to be found, e.g., there is something for everyone, and I am sure I will return frequently to the chapters on Myasthenia gravis, autoimmune uveitis, Graves disease, EAT and others. I was very surprised at the omission of AIDS from the chapter on Immunodeficiency and Autoimmunity, which was otherwise informative. The editors wrap it up with a chapter entitled Autoimmunity Tomorrow, which reminds us of the final limitations of symptom-oriented research and therapy, and keeps us focussed on the ultimate goal, which is to predict and so prevent (rather than treat) autoimmune disease.

Inevitably, a volume of this nature must suffer from the 'parson's egg' syndrome, and the question a reviewer must address is whether the whole is better than the sum of the parts. I think it is. The fact that most contributions will evade being outdated soon after publication may be more a tribute to the difficulty of significantly advancing this field than to the author's perspicacity. Nevertheless, I recommend it as a collection of well-informed opinion and speculation. The second question I am mandated to address is whether you should buy it. At \$114.95, this is not for everybody's budget. But I wouldn't leave it for your central library to buy either. This is a book you would like more dedicated access to than that, so if your grants don't permit owning your own copy, perhaps you could interest your colleagues in sharing the cost. The members of my lab have certainly indicated their interest, and it's been difficult to keep hold of while doing this review, surely a good indicator.

1994'S NEW MEMBERS

As a way of obtaining an introduction to the membership of the CSI/SCI, we invite every year's new full members to provide some background on themselves and their recent research interests. Welcome!

PERSEPHONE BORROW (Ph.D., University of Cambridge, England, 1989)

Current Position: Senior Research Associate (Instructor), Department of Neuropharmacology, Division of Virology, The Scripps Research Institute, 10666 North Torrey Pines Road, La Jolla, CA, 92084, U.S.A. Phone: 619-554-9602; Fax: 619-554-9981.

Current Research: Cellular and molecular analysis of virus-induced immunosuppression in a lymphocytic choriomeningitis virus model. Characterization of arenavirus receptors. Role of CTLs in control of HIV-1 in man. Immune responses in the CNS studied using a transgenic model.

WILFRED A JEFFERIES: (Ph.D., Oxon, 1985)

Current Position: Assistant Professor, Biotechnology Laboratory, U.B.C., Rm. 237 Wesbrook Bldg., 6174 University Blvd., Vancouver, BC, V6T 1Z3 Tel: 604-822-6961; Fax: 604-822-6780; e-mail Wilf@unixg.ubc.ca

Current Research: Antigen process and presentation. Immunosubversion by Adenovirus, dendritic cell biology and virus specific cytolytic T cells. Novel iron transport mechanisms.

FRANK JIRIK: (M.D., University of British Columbia, 1979)

Current Position: Associate Professor, Department of Medicine, Division of Rheumatology, Biomedical Research Centre, University of British Columbia, 2222 Health Sciences Mall, Vancouver, BC, V6T 1Z3. Tel: 604-822-7829; Fax: 604-822-9710; e-mail: jirik@brc.ubc.ca.

Current Research: Expression and characterization of protein tyrosine phosphatases (PTPases); including in vitro substrate specificity studies and identification of intracellular substrates/associating molecules. Transgenic lambda shuttle-phage system for assessment of somatic mutation mechanism operative on immunoglobulin V-regions.

ANTHONY M. JEVNIKAR: (M.Sc., M.D., F.R.C.P.(C) University of Western Ontario)

Current Position: Assistant Professor, Department of Medicine, The University of Western Ontario, University Hospital, London, Ontario, N6A 5A5. Tel: 519-663-3688; Fax: 519-663-8808; e-mail: jevnika@uwo.ca.

Current Research: Role of MHC class II molecules, cytokines and adhesion molecules in autoimmune nephritis and transplant rejection.

ANNE K. JUNKER: (M.D., University of Calgary, 1976; FRCP, Dept. Pediatrics, UBC, 1981: Immunology Fellowship, Dept. Pediatrics, University of Washington, Seattle, 1983)

Current Position: Assistant Professor, Department of Pediatrics, U.B.C., Children's Research Center, 950 West 28th Ave., Vancouver, BC, V5Z 4H4. Tel: 604-875-2482; Fax: 604-875-2226; e-mail: anjunker@unixg.ubc.ca

Current Research: Humoral immunity: 1) Effect of congenital cytomegalovirus infection on CMV-specific antibody responses. 2) Antibody patterns in women with second attacks of chickenpox in pregnancy and children with recurrent chickenpox. 3) Antibody responses in immunodeficiency disorders with predominant T cell deficiency - DiGeorge syndrome, Foetal alcohol syndrome.

ROGER G.E. PALFREE (Ph.D., McGill University, 1978)

Current Position: Associate Professor, Dept. Medicine, McGill University, Endocrine Laboratory, L2.05, Royal Victoria Hospital, 687 Pine Avenue West, Montreal, Quebec, H3A 1A1. Phone: (514) 842-1231, Ext. 5247; Fax: (514) 842-2376; e-mail: MCRP@musica.mcgill.ca.

Current Research: Structural and functional studies of members of the mouse Ly-6 family of hematopoietic differentiation antigens in mouse and human. Members of the defensin family with potential regulatory functions.

CLAUDE PERREAULT (M.D., University of Montreal, FRCP)

Current Position: Professor, Dept. of Medicine, University of Montreal; Director, Research Center, Maisonneuve-Rosemont Hospital.

Current Research: Major and minor histocompatibility molecules, cancer immunotherapy, bone marrow transplantation, tolerance.

DAVID F. TOUGH (Ph.D., University of Manitoba, 1992)

Current Position: Research Associate, Department of Immunology, The Scripps Research Institute, La Jolla, CA, 92037. Phone: (619) 554-2318; Fax: (619) 554-6139.

Current Research: Life span of T cell, B cell and gamma-delta T cell subsets. Kinetics of lymphocyte development and incorporation into the peripheral pool. Antigen- and superantigen-induced alterations in T cell turnover, phenotype and function.

MELANIE J. WELHAM (Ph.D., University of London, 1988)

Current Position: Postdoctoral Research Associate, The Biomedical Research Centre, University of British Columbia, Vancouver, BC, V6T 1Z3. Phone: (604) 822-7837; Fax: (604) 822-7815; e-mail melanie@brc.ubc.ca.

Current Research: Mechanisms of cytokine signal transduction. Pathways involved in cell growth vs differentiation. Distinctive features of IL-4, IL-13 and insulin signaling. The role of SH2-containing proteins in cytokine-mediated signal transduction.

CANADIAN ACADEMY OF CLINICAL BIOCHEMISTRY
in collaboration with the
CANADIAN SOCIETY OF IMMUNOLOGY
is now offering a Fellowship in Immunology
as part of their certification procedures

To initiate the section and provide initial membership, the Academy will entertain applications for Fellowship under a grandfather clause. The conditions for eligibility are listed below and anyone wishing to apply under these conditions must do so by December 1, 1994. After this time, acceptance as a Fellow can only be attained through examination.

Application forms can be obtained by contacting:

CACB Head Office
PO Box 1570
190 Railway Street
Kingston, Ontario
K7L 5C8

Tel. (613) 531-8899
FAX (613) 531-0626



Fellowship in the specialty of clinical immunology
GRANDFATHER CLAUSE CRITERIA

Anyone wishing to be granted Fellowship in the specialty of clinical immunology by the Canadian Academy of Clinical Biochemistry (CACB) under the grandfather criteria, must apply before **December 31, 1994**. After this date no applications will be accepted and these criteria will cease to exist, save for those applications still under assessment.

All applicants must be members of the Canadian Society of Clinical Chemists (CSCC) or the Canadian Society of Immunologists (CSI) at the time of application.

All such applications will be assessed by an ad hoc credentials committee appointed by the CACB.

1. Candidates shall have educational qualifications in chemistry or the biological sciences equivalent to the requirements for the Ph.D. or D.Sc. degree, or shall have earned a Ph.D., D.Sc., D.V.M., M.D., D.D.S. or equivalent degree from a university belonging to the Association of Universities and Colleges of Canada, from a Canadian school of medicine, or from any other institution which in the opinion of the CACB and the CSI has an acceptable educational standard.
2. All applicants shall have successfully completed additional courses in immunology at the postgraduate level and shall have an adequate background knowledge of basic sciences and biochemistry, as well as a minimum of 10 years experience in the field of immunology.
3. Full or Affiliate members of the CSCC who meet the criteria of Special Distinction (*see attached*) shall be awarded the Fellowship.
For purposes of grandfathering only, qualifications at the Assistant Professor level will be considered.
4. Full or Affiliate members of the CSCC who at the time of application meet the criteria allowing them to take the specialty certificate examination, but have an additional 2 years relevant experience in a clinical immunology laboratory instead of the training program, shall be permitted to take the examination.
5. Anyone who meets the educational requirements for certification in clinical immunology and does not otherwise meet the above criteria, but believes he or she should be either granted the Fellowship or allowed to sit the examination, because of unusual or extenuating circumstances, may apply with detailed explanation.

Decisions of the Credentials Committee may be appealed to the Board of Directors of the CACB. Only one appeal will be allowed and decisions of the Board are final.



Fellowship in the specialty of clinical immunology
SPECIAL DISTINCTION FOR FELLOWSHIP

The criteria for special distinction must be based upon an academically oriented contribution to clinical immunology. Any individual applying for Fellowship in this category who holds an academic appointment must be at the Associate or Full Professor rank.

Academic achievement in clinical immunology will be assessed by an ad hoc Credentials Committee of the Canadian Academy of Clinical Biochemistry (CACB) and the Canadian Society of Immunologists (CSI). Any application being considered under this criteria will be judged on at least two of the following bases:

1. Contribution to the Teaching of Clinical Immunology

The applicant must have taught at the postgraduate, graduate or undergraduate level for at least 5 years. Consideration would be given to; role as a course coordinator, number of hours of teaching per year, lectures vs. informal tutorial teaching, contribution to national or regional meetings relevant to clinical immunology and any role in curriculum development or review.

2. Contribution to Research

The applicant must have published a minimum of 20 papers in national or international peer reviewed journals (relevant to clinical immunology) as the primary author or a major co-investigator.

3. Contribution to Clinical Immunology Service

The applicant must show significant accomplishments in service clinical immunology. Considerations may include: running an exemplary service laboratory, directly participating in organizing or evaluating provincial or professional society based quality assurance programmes, publication of applications oriented papers in clinical immunology, etc.

RESEARCH SCIENTIST

The Division of Dermatology at Sunnybrook Health Science Centre, a University of Toronto affiliated teaching hospital, is seeking a Research Scientist with a PhD degree in Molecular Biology or Immunology and cytokine research experience.

Reporting to the Chief, Division of Dermatology, the Research Scientist will function as a member of the Dermatology Research Group. The successful applicant, in his/her investigative role, will be expected to develop independent research and to interact with ongoing research. Excellent knowledge of skin immunology is required. The effective date of this appointment is September 1, 1994. Salary commensurate with qualifications and experience.

Applicants are invited to submit a C.V. and three letters of reference by June 1, 1994 to:



Professor Daniel N. Sauder
Chief, Division of Dermatology
Sunnybrook Health Science Centre
2075 Bayview Avenue, A-319
North York, Ontario
M4N 3M5

POSITION AVAILABLE

MEETING

SIGNAL TRANSDUCTION IN THE ACTIVATION AND DEVELOPMENT OF MAST CELLS AND BASOPHILS

BETHESDA, MARYLAND
FEBRUARY 20 - 23, 1995

OPENING LECTURE ON FEBRUARY 20, 1995 AT 5:00 P.M.
BY NOBEL LAUREATE PROF. DR. ERWIN NEHER

DISTINGUISHED LECTURE BY K.F. AUSTEN
FEBRUARY 21, 1995

CONFIRMED SPEAKERS

BARBARA BAIRD	MICHAEL BEAVEN	ZAMI BEN-SASSON
JOSEPH BOLEN	MELISSA BROWN	CLEMENS DAHINDEN
M. DEMATTEIS	JULIO FERNANDEZ	STEPHEN GALLI
BYRON GOLDSTEIN	STEPHEN HOLGATE	JAMES IHLE
HOWARD KATZ	TOSHIAKI KAWAKAMI	JEAN-PIERRE KINET
YUKIHIKO KITAMURA	JAREMA KOCHAN	L. LICHTENSTEIN
DEAN METCALFE	HENRY METZGER*	WILLIAM PAUL
ISRAEL PECHT*	REINHOLD PENNER	EHUD RAZIN*
JUAN RIVERA	R. SAGI-EISENBERG	JOHN SCHRADER
REUBEN SIRAGANIAN	RICHARD STEVENS	PETER VALENT
BARRY WERSHIL		

* ORGANIZING COMMITTEE

FOR MORE INFORMATION PLEASE CALL OR WRITE:
SYLVIA DELONG, CONFERENCE MANAGER
FOUNDATION FOR ADVANCED EDUCATION IN THE SCIENCES, INC.
ONE CLOISTER COURT, #230, BETHESDA, MD 20814
(301) 496-7975