

BULLETIN

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2004 CSPP ANNUAL MEETING,

The 2004 Annual Meeting of the Canadian Society of Plant Physiologists will be held from June 19-22 at the University of Guelph, Guelph, Ontario.

CONGRÈS ANNUEL DE LA SCPV,

Le Congrès Annuel de la Société Canadienne de Physiologie Végétale aura lieu du 19 au 22 juin à l'Université de Guelph, Guelph, Ontario.

Web site for registration, accommodation, preliminary program, and abstract submission:

Abstract deadline: 14 May 2004
[http:// www.uoguelph.ca/CSPP04](http://www.uoguelph.ca/CSPP04)

MOT DU RÉDACTEUR



Il me fait plaisir de vous faire parvenir ce quatrième numéro du Bulletin Électronique de la CSPP/SCPV. Comme vous l'aurez sans doute remarqué sur la couverture du Bulletin, l'emphase de ce numéro sera mis sur le prochain congrès annuel de la CSPP/SCPV qui se tiendra cette année à l'Université de Guelph en

Ontario du 19 au 22 juin. Trois grands thèmes seront à l'honneur lors de ce congrès soient : Les Avancements Récents en Génomique, Le Rôle des Hormones dans la Croissance et le Développement, et Les Dynamiques Moléculaires Intra- et Intercellulaires. Pour de plus amples informations, veuillez lire le message du Comité Organisateur en page 3. Notez que la date limite pour la soumission de résumés (Abstracts) est le 14 mai 2004. Vous trouverez également des informations concernant l'aide financière offerte aux étudiants gradués membres de la Société qui participent au Congrès Annuel (Prix George H. Duff) ainsi que les Prix du Président décernés aux meilleurs conférenciers étudiants (présentations orale et affiche) lors des Congrès annuels de la Société.

Un autre dossier très important de ce Bulletin est l'article du directeur des communications de la

CSPP/SCPV, le Dr. Gordon Gray, qui présente pour la première fois une esquisse de la nouvelle page web de notre Société (voir page 4). L'amélioration proposée à la page web de la Société est une des actions entreprises par le Comité Exécutif ayant pour objectif de développer la CSPP/SCPV en un pôle canadien de science végétale.

En terminant, j'aimerais également vous inviter à me faire parvenir vos commentaires et/ou suggestions concernant le Bulletin Électronique, sa forme, son contenu, etc. Y-a-t-il des sujets que vous aimeriez voir discuter ou présenter? Si oui, par qui et dans quelle forme? Croyez vous que la chronique des postes vacants est nécessaire considérant que la majorité de ces positions proviennent de notre propre site web? Quel est votre opinion sur la fréquence de parution du Bulletin? Etc. Vos suggestions nous permettrons de mieux répondre à vos besoins et d'améliorer la qualité des services que nous désirons vous offrir.

Merci de votre participation, bonne saison estivale et nous espérons tous vous rencontrer à Guelph cet été au congrès annuel de la CSPP/SCPV.

Pierre Bilodeau
Secrétaire/Rédacteur

TREASURER'S NOTES



Membership Renewals: For those folks who haven't yet renewed their CSPP/SCPV memberships, you need to renew soon if you wish to be included in the 2004 Membership Directory!

Fundraising: The two fundraising activities of the Society, the George Duff Student Travel Awards and the Ann Oaks Scholarship Fund, are both benefiting from the generosity of the membership. Approximately \$1000 has been donated to each of the funds during the last few months. The George Duff Travel Awards will help to defray the cost of graduate student travel to the Annual Meeting, this year hosted by the University of Guelph. The Society will also provide some additional funds, from general revenue, to augment the Travel Awards. Money is being accumulated in the Oaks Fund account in order to establish an NSERC PGS (doctoral) level PhD scholarship in plant biology.

Changes to the receipts for membership renewals: At the December 2003 meeting of the CSPP/SCPV Executive (at Concordia University), Canada Revenue Agency (CRA) regulations were discussed. These regulations have an impact on the receipts that are

issued for membership renewals and donations to the Oaks Fund and Duff Travel Awards. CRA regulations state that membership dues in a charity (CSPP/SCPV is a registered charity) are tax deductible if there is no material benefit associated with membership. Conversely, if membership does provide material benefit, then the membership dues are not tax deductible.

This issue has implications for CSPP/SCPV meeting registrations: some recent annual and regional meetings have provided for a registration discount for Society members, while other meetings have not. Registration discounts are a material benefit. After some discussion, the Executive decided that registration discounts are a desirable thing, thus there is indeed a potential material benefit associated with Society membership.

Therefore, beginning with the 2005 membership year there will be a small change in the receipts issued for membership renewals and donations to the Oaks Fund and the Duff Travel Awards: the receipt will show separate totals for membership renewals (not tax deductible) and charitable donations to the Oaks and Duff funds (which remain tax deductible).

Harold Weger, Treasurer

CSPP-SCPV 2004

ANNUAL MEETING of the CANADIAN SOCIETY of PLANT PHYSIOLOGISTS
JUNE 19-22, 2004 UNIVERSITY OF GUELPH, GUELPH, ONTARIO

The 2004 Annual Meeting of the Canadian Society of Plant Physiologists (CSPP2004) is being held June 19th-22nd at the University of Guelph, Guelph, Ontario. The meeting promises to be of international scope and quality with three symposia presented by a host of world renowned plant scientists. Thomas Bureau (McGill University), Brian Ellis (University of British Columbia), Jeffrey Harper (Scripps Research Institute) and Robert Martienssen (Cold Spring Harbor) have accepted invitations to bring us up to date on their contributions to 'Recent Advances in Genomics'. Mark Estelle (Indiana University), Jianming Li (University of Michigan), Peter McCourt (University of Toronto) and Eric Schaller (Dartmouth College) will be detailing their research on the 'Role of Hormones in Growth and Development'. 'The Intra- and Intercellular Dynamics of Macromolecules' will be the topic of interest and discussion by Biao Ding (Ohio State University), Maureen Hanson (Cornell University), David Jackson (Cold Spring Harbor) and Geoff Wasteneys (University of British Columbia). Delegates will be provided formal opportunities to interact and present recent advances made in their own research activities through either oral presentations at one of several mini-symposia, or through a poster presentations. All of the scientific program and social events during the four day meeting will take place in Rozanski Hall, the newly opened state-of-the-art classroom complex of the University of Guelph.



Social events during CSPP2004 will include an Opening Reception and Mixer on Saturday evening. This event is free to all registrants and provides an opportunity to renew old acquaintances and form new friendships. On Sunday evening, following a provided dinner, registrants will be able to mingle scientifically and socially at the Poster Session. Lunches will be provided Sunday through Tuesday so that delegates can maintain scientific or social discussions in a relaxed atmosphere. The major social event for all delegates will be a luxury coach trip to and guided tour of the Hernder Estates Winery in St. Catherine's, Ontario, on Monday afternoon and evening. As you are probably aware, many of the wines from this region have been gaining an international reputation for quality over the last decade. Following the tour, registrants can participate in wine tasting and a reception on the patio. Dinner in the main Hernder Estates dining room will follow the tour and tasting.

Delegates are welcome to follow their own social pursuits during and after dinner on Saturday and Tuesday evening. There are a number of excellent restaurants, pubs and clubs near the University and in downtown Guelph, catering to a very wide range of tastes, expense accounts and musical preferences. Guelph has its own rich history, free to explore. While Toronto is only a forty-five minute drive away, the less urban-minded visitors might enjoy the nearby village of St. Jacob's. Nature enthusiasts can hike the Niagara escarpment, or visit Guelph Lake, Rockwood, or any other of a number of conservation areas in the region.

Registration for the 2004 Annual Meeting of the Canadian Society of Plant Physiologists is now available online at <http://www.uoguelph.ca/CSPP04/>. The deadline for registration and abstract submission is May 14th, 2004.

We look forward to seeing you in June!

CSPP2004 Organization Committee

MESSAGE FROM THE COMMUNICATION DIRECTOR

Web Site Redesign



The priority of the Communications

Committee in the past few months has been the redesign of the CSPP/SCPV website. Discussion was initiated by the Executive on this topic some time ago with the goal of improving the overall ease of use and

user friendliness. Other items which needed to be addressed were bilingual accessibility, increased links to affiliated sites and the possibility of corporate sponsorship. The ad-hoc committee in charge of the remodeling, consisting of Anja Geitmann, Michael Stasiak (our webmaster) and myself, feel we have a very good prototype on which to build. However, the site is still under construction, and before it is fully implemented we would appreciate input from the membership. The homepage for the new site is shown and I would ask that you think about what you would like to see on the website. Feel free to e-mail your comments to any of us at your convenience. I expect that we will also discuss this item at the Annual General meeting in Guelph this June – please bring your comments and suggestions to the meeting. I ask you to be patient with us in the upcoming months as we make the transition from old to new. I am sure you will find the new site more attractive and easier to navigate than its predecessor. Visit often and be sure to use the new website as a tool to facilitate communication and promote the Society.

I would also add that the 2004 Membership Directory is currently "in publication" and should be delivered to your mailboxes some time this spring.

Gordon R. Gray, Communications Director

REPORT ON THE 2003 CSPP EASTERN REGIONAL MEETING IN MONTREAL



The 2003 CSPP Eastern Regional Meeting was held on December 12-13 at the Loyola Campus, Concordia University. The overall meeting was very pleasant and provided a good opportunity for many Easterners from all around Quebec, Ontario and the Maritimes to get together.

Courageous people from as far as Winnipeg, Manitoba (Rob Hill), Regina, Saskatchewan (Harold Weger) and Calgary, Alberta (Doug Muench) also participated in this event.

The scientific program was excellent and everyone's participation made a success of the event. The organizers (Varin, Gullick and Ibrahim) made sure that everything ran smoothly. A very nice lunch was served in one of the oldest buildings on the Loyola Campus.

One of the highlights of the meeting was the awarding of the Eastern Regional Director Awards, for best oral and

poster presentations by graduate students. Priti Krishna, CSPP Eastern Regional Director, organized this event. We thank all the judges for doing a terrific work which was quite difficult considering that two honorable mentions were given in for oral presentations.

The Best Oral Presentation Award was given to Allison McDonald, a graduate student in Greg. Vanlerberghe's lab at the University of Toronto at Scarborough. Here is a copy of her abstract:

Prokaryotic orthologs of plant mitochondrial alternative oxidase and plastid terminal oxidase

A.E. McDonald, S. Amirsadeghi, and G.C. Vanlerberghe. Departments of Botany and Life Sciences, University of Toronto at Scarborough, 1265 Military Trail, Scarborough, ON, Canada, M1C 1A4

Higher plants and green algae contain two similar members of the membrane-bound diiron carboxylate proteins: the mitochondrial alternative oxidase (AOX) and the plastid terminal oxidase (PTOX). AOX is a ubiquinol oxidase that may serve to stabilize reactive oxygen species generation by the respiratory electron transport chain. PTOX is a plastoquinol oxidase required in carotenoid biosynthesis and may represent the elusive oxidase of chlororespiration. Given the endosymbiotic origin of mitochondria and plastids, we sought to find prokaryotic orthologs of AOX and PTOX proteins. PTOX orthologs are present in four different cyanobacteria and an AOX ortholog is present in an α -proteobacterium. We confirmed the presence and expression of the PTOX gene in *Anabaena variabilis* PCC 7120 and demonstrate that the expression of this gene is influenced by light intensity. Our results have implications for the photosynthetic and respiratory metabolism of these prokaryotes, as well as for the origin and evolution of eukaryotic plastid PTOX and mitochondrial AOX.

The Best Poster Presentation Award was given to David Chiasson, a graduate student in Dr. Snedden's lab at Queen's University, Kingston. Here is a copy of his abstract:

Characterization of three pathogen-induced calmodulin-like proteins from Arabidopsis and tomato.

D. Chiasson¹, S. Ekengren², G.B. Martin², and W. Snedden¹

¹Dept of Biology, Queen's University Kingston, ON, K7L 3N6; and ²Boyce Thompson Institute for Plant Research, Ithaca, NY, 14853, USA

Calmodulin (CaM) is a conserved Ca²⁺-binding eukaryotic protein that regulates many cellular proteins. We identified two *CaM-like* (CML) genes (*CML42*, *CML43*) from *Arabidopsis* and a tomato gene (*LeA31R*) that share homology with a pathogen-induced CML tobacco gene. Based on chromatography, gel-shift assays, and NMR, it was determined that all three proteins bind Ca²⁺. RT-PCR and GUS-reporters show that *CML42* is expressed in all tissues while *CML43* expression was only detected in the root tip. *CML42*, *CML43*, and *LeA31R* were upregulated in response to a bacterial pathogen, *Pseudomonas syringae*. Salicylic acid induced a GUS reporter of *CML43*. Overexpression of either *CML42* or *CML43* resulted in an accelerated hypersensitive response to pathogen infection. Viral-induced gene silencing of *LeA31R* resulted in loss of pathogen resistance. Collectively, our data suggest these proteins likely play an important role during the plant immune response.

As mentioned above, two Honorable Mentions for Oral Presentation were also awarded.

Celine F. Mouchel (supervisor C.S. Hardtke) McGill University.

BREVIS RADIX (BRX) gene, a major QTL for root growth in Arabidopsis, encodes a novel factor involved in root system morphology.

Cheryl Dean (supervisor Dr. Zhongmin Dong). Dalhousie University and St. Mary's University
Effect of Hup status on rhizobacteria and soil fertility

Finally, let me end by mentioning that the 2003 Eastern Regional Meeting was held in the newly inaugurated Richard J. Renaud Science Complex at the Loyola Campus, Concordia University. The new complex features 33,000 square meters of space – roughly half the size of the downtown Henry F. Hall Building – occupying five above-ground stories, two basement levels and a mechanical penthouse. It will house the Departments of Biology, Chemistry and Biochemistry, Exercise Science, Physics and a major component of Psychology, as well as Science College, the Centre for Structural and Functional Genomics, the Centre for Studies in Behavioural Neurobiology and several smaller research centres and support facilities. Most of the academic units have seen their space increase substantially and, for many, they will for the first time be in state-of-the-art facilities.

Pierre Bilodeau
CSPP Secretary/Bulletin Editor

YOUNG SCIENTIST AWARDS

Canadian Society of Plant Physiologists George H. Duff Student Travel Award

CSPP is making available a limited number of travel awards to foster graduate student participation at the CSPP Annual Meeting, June 19-22, 2004 at the University of Guelph. The awards are intended for those students who will be presenting their work (oral or poster) at the Guelph meeting and who are student members of CSPP at the time of application. Based on cost, preference will be given to students travelling the furthest and presenting in the oral category or as first author of a poster presentation. The maximum individual award is \$ 500.00. Deadline for receipt of applications is May 3, 2004. Awards are contingent upon the recipient attending and presenting their work at the Guelph meeting. Enquiries regarding the awards should be sent to Dr. Doug Muench, Department of Biological Sciences, University of Calgary, dmuench@ucalgary.ca.

Société Canadienne de Physiologie Végétale Demande de bourse – George H. Duff de voyage pour étudiant(e)

La SCPV offre un certain nombre de bourses de voyage afin d'encourager la participation des étudiants(es) gradués(es) au congrès annuel de la SCPV qui se tiendra à

l'Université de Guelph, Guelph, ON, du 19 to 22 juin 2004. La bourse vise à aider les étudiants(es) gradués(es) actuellement membres de la SCPV à se rendre à Guelph pour y présenter leurs résultats (présentation orale ou affiche). Les étudiants(es) qui sont auteurs d'une présentation orale (ou premier auteur d'une affiche) et devant parcourir de plus longues distances pour se rendre au congrès auront priorité lors de l'attribution des bourses. L'octroi maximum pour une bourse est de 500,00\$ par personne. La date d'échéance pour la réception des demandes est le 3 mai 2004. Les bourses seront attribuées à condition que le/la gagnant(e) se rende à Guelph lors de la conférence pour y faire une présentation orale ou présenter une affiche. Pour plus d'informations au sujet des bourses de voyage, veuillez contacter Dr. Doug Muench, Department of Biological Sciences, University of Calgary, dmuench@ucalgary.ca.

CSPP Presidents Awards

The CSPP President's Awards for best student poster and oral presentations will be awarded during the meeting's closing ceremonies. Students who wish to be considered for the President's award must indicate this in their abstract submission form.

VACANT POSITIONS

April 23

Ph.D or postdoctoral position in biochem/cell biology University of Calgary

A doctoral or postdoctoral position is available to study subcellular mRNA localization and its role in protein sorting to the peroxisome (see Chuong et al., 2002, JBC 277:2419-2429; Muench and Mullen, 2003, Plant Science 164:307-315). Interested individuals should be highly motivated and have a strong interest in cell biology. This project will utilize a broad range of techniques, including protein purification, RT-PCR, microinjection, in situ hybridization, and confocal microscopy. Doctoral candidates should have lab experience and the ability to work independently. Postdoctoral candidates should have experience in either protein purification and/or cell biology. For further information, please contact Dr. Doug Muench, Department of Biological Sciences, University of Calgary, 2500 University Dr. NW, Calgary, AB, Canada, T2N 1N4; telephone 403-220-7935, e-mail <mailto:dmuench@ucalgary.ca>dmuench@ucalgary.ca.

April 5, 2004

MSc and PhD STUDENTS Carleton University

Positions are available for MSc and PhD studies in plant signal transduction using genomics and proteomics approaches. The research will be in the following areas.

- Identify interactive proteins in defense-related mitogen-activated protein kinase (MAPK) pathways.
- Identify phosphorylation targets in the MAPK pathways.
- Identify MAPK downstream proteins and analyze their functions.
- Investigate the relationship of MAPK pathways and hypersensitive response (HR) cell death.

Contact: Tim Xing, Department of Biology and Institute of Biochemistry, Carleton University, Ottawa, Ontario, Canada K1S 5B6, Tel: (613) 520-2600 Ext. 8981, Email: Tim_Xing@Carleton.ca

April 2, 2004

INDUSTRIAL RESEARCH FELLOW Medicago inc.

Medicago is a world leader in plant-made pharmaceuticals specializing in the transformation of alfalfa into a living factory to produce high-value active molecules (medication, corneceuticals, and industrial enzymes). Located in Quebec City, Medicago is currently seeking a talented, dynamic and motivated researcher ready to meet the challenges of a growing business.

A postdoctoral position is presently available in our Research and Development section in the area of recombination in plants. The candidate must have

obtained his doctorate (Ph.D) within the last three years or be in the process of completing his or her thesis. The candidate must have lab experience in the study and use of recombination systems as tools for plant biotechnology. Practical experience with plant transformation including regeneration, embryogenesis and in-vitro culture is highly recommended. This expertise must be supported by scientific publications (journal articles, oral and poster presentations). Candidates must be eligible for a NSERC Industrial Postdoctoral Fellowship. For more information on these fellowships, visit NSERC internet web site at: <http://www.nserc.ca>.

Please send your application and the NSERC form 200 before April 30th 2004 either by email or fax to: Dr. Pierre Bilodeau, Research Manager, Medicago inc. Fax: (418) 658-6699, Email: bilodeaup@medicago.com

April 1, 2004

Graduate Student Position University of Western Ontario

A graduate student position is available immediately to study Programmed cell death / Stress signal transduction in plants.

Please contact: Denis P. Maxwell, Assistant Professor, Department of Biology, University of Western Ontario, London, Ontario N6A 5B7, Canada, Tel: (519) 661-2111 ext 81336

March 22, 2004

Postdoctoral position University of Western Ontario

Postdoctoral position and a graduate student position is available immediately to study Programmed cell death / Stress signal transduction in plants. Please contact:

Denis P. Maxwell, Assistant Professor, Department of Biology, University of Western Ontario, London, Ontario N6A 5B7, Canada, Tel: (519) 661-2111 ext 81336

March 22, 2004

Plant Molecular Biologist Position Performance Plants, Inc.

A plant molecular biologist and biochemist position is immediately available in the Gene Discovery Program at the Company's Kingston research facility. Applicants should have a strong background in plant molecular genetics and protein biochemistry. Knowledge of plant hormone signal transduction, biotic and abiotic stresses is also advantageous. The candidate will ideally be detail-orientated, well-organized, enthusiastic and able to appreciate goal-based research and development.

Performance Plants Inc. is a major Canadian plant biotechnology company (www.performanceplants.com), whose mission is to genetically engineer plant metabolism to improve agricultural productivity. The company headquarter is located in the Bioscience Complex of Queen's University, and Kingston is a beautiful city by the

Lake Ontario. Interested applicants should include a curriculum vitae and the names of three references, and should be sent to: Louise Thornton Director of Human Resources, Performance Plants Inc., BioSciences Complex, Queen's University, Kingston, Ontario, Canada, K7L 3N6

Email: thorntonl@performanceplants.com, Fax: 1-(613)-545-3618

Performance Plants Inc. offers a complete benefits package and is an equal opportunity employer.

March 18, 2004

Ph.D or MSc position in plant-microbe interactions University of Manitoba

The research program will identify and physiologically characterize N₂-fixing bacteria associated with grass species. Bacteria will be characterized both in vitro and in plants. The applicant should have a background in botany, plant physiology, or microbiology. Previous experience in basic molecular biology and tissue culture would be an asset. Applications will be accepted until the position is filled. Please send resume including name and contact information for three referees to: Dr. J. Kevin Vessey, Dept. of Plant Science, University of Manitoba, Winnipeg, MB, R3T 2N2, fax:(204)474-7528, email: k-vessey@umanitoba.ca

March 15, 2004

Postdoctoral position Targeted Growth Canada Inc.

Targeted Growth Canada Inc. has a post doctoral research position available within the research and development department located in Saskatoon Saskatchewan. TG Canada is a company developing genetically enhanced crops for the agricultural industry. The research focus of this position pertains to stimulating the plants natural immune system. TG Canada is presently transforming the harpin gene into canola and strawberries. The desired candidate will have a strong plant molecular biology background and will have extensive experience in plant transformations. Experience with canola will be an asset. Applicants must be eligible for an NSERC Industrial Research Fellowship. Employment is contingent on the applicant successfully qualifying for the NSERC grant.

The anticipated start date will be in June, salary will be \$45,000 a year. Interested candidates please forward resumes to: Andrew Thomson, Targeted Growth Canada Inc., Phone - (780) 428-8889, Fax - (780) 424-7458, e-mail athomson@vencom.ca

February 25, 2004

Postdoctoral position available University of California

University of California at Riverside has an opening for a PDF to work on Agrobacterium and other methods of gene transfer to develop improved minor crop species. The PDF will be responsible for developing and maintaining gene constructs, bacterial stocks and plant

cultures as well as conducting various molecular, biochemical and physiological assays on putative transformants and their progeny. The PDF will be involved in the routine operation of a research lab, including preparing publication quality reports, helping students and others in the lab, etc. All interested and qualified candidates, including Canadians, are encouraged to apply, including c.v. and names of two references, to: Alan McHughen, Botany and Plant Sciences, University of California, Riverside, Ca, USA , alanmc@ucr.edu

February 12, 2004

**Faculty Position and Canada Research Chair
QUEEN'S UNIVERSITY**

The Department of Biology invites applications for a tenure-track/tenured faculty position and Canada Research Chair in cell and developmental biology. Preference will be given to candidates with proven leadership in building a research group using modern imaging technology and quantitative, experimental methods to investigate topical areas in eukaryotic model organisms. The successful applicant will be selected primarily on the basis of overall excellence, but should complement existing research programs at Queen's which use modern imaging technology to answer questions in areas such as cell biology, neurobiology or development. The Department of Biology has superb facilities in the new Biosciences Complex, and access to a state-of-the-art Protein Function Discovery proteomics facility (www.queens-pfd.ca). Queen's University is a medium-size university with a full range of professional programs including a medical school and teaching hospitals, providing opportunities for collaborations with colleagues from other units such as Biochemistry, the School of Computing and several health science departments. Queen's is recognized nationally for the quality of its undergraduate and graduate programs, which attract outstanding students. Kingston is an attractive community of 150 000, situated on the shores of Lake Ontario, close to Ottawa, Montreal and Toronto. Qualifications for this position include a PhD, postdoctoral experience and evidence of excellent research published in high impact scientific journals. The successful candidate will be expected to be an excellent teacher and to develop a vigorous, externally funded research program.

Applicants must be eligible for nomination to a Canada Research Chair (CRC), Tier 1 that has been allocated to this position (www.chairs.gc.ca) and brings with it substantial infrastructure funding from CFI/OIT. A separate CFI/OIT proposal for adding major new biological imaging instrumentation and infrastructure to the Queen's Department of Biology has been submitted for approval. The successful candidate will be appointed at a rank corresponding to their qualifications. Expected date of appointment is January 1, 2005, subject to negotiation. This is a re-advertisement, thus review of applications will begin immediately and continue until the position is filled. Prospective candidates requiring additional information

about this position may contact the Head of Biology in confidence prior to applying. Formal applications require submission of curriculum vitae, statement of current and prospective research interests, statement of teaching interests, and at least three letters of reference to: Dr. Peter T. Boag, Head, Department of Biology. Queen's University, Kingston, Ontario, Canada K7L 3N6 , Web: biology.queensu.ca, E-mail: biohead@biology.queensu.ca, Fax: (613) 533-6617

January 30, 2004

**Postdoctoral position
University of California**

A Postdoctoral position is available immediately to investigate different aspects of plant ion membrane transport. Successful candidates will join an interdisciplinary research team focused on the function and regulation of different plant plasma membrane and vacuolar ion transporters. The position, that can be renewed for up to 4 years, will involve the study of structure/function relationships using heterologous expression in bacteria, yeast and transgenic plants. Demonstrated experience in molecular biology, plant or yeast transformation and in protein biochemistry is desirable. Highly motivated candidates having a Ph.D. in molecular biology, biochemistry or a related field are encouraged to apply. Salaries are competitive and include benefits. Please forward an application outlining research experience and interests, c.v., reprints, and email addresses of three references to: Professor Eduardo Blumwald, Department of Pomology, 1057 Wickson Hall, University of California, Davis, CA 95616, Email: eblumwald@ucdavis.edu

January 23, 2004

**CRC Tier II /Tenure Track Positions in Biochemistry
University of Lethbridge**

The University of Lethbridge is seeking applicants for (i) a Tier II Canada Research Chair, and (ii) a tenure track position in Biochemistry in the Department of Chemistry and Biochemistry. (i) The CRC Tier II candidate is expected to have excellent potential in an area of biochemistry/molecular biology that will support the growth and development of research capacity in the broad area of Nutraceuticals. The position furthers the University's commitment towards the establishment of a world-class research group, as part of an Alberta-wide initiative that will be focused on value-added agriculture. The Canada Research Chairs (CRC) Program has been established by the Government of Canada to enable Canadian universities to foster research excellence and enhance their role as world-class centers of research excellence. Tier II Chairs are directed at researchers who are acknowledged by their peers as having the potential to lead in their fields. More information about the Canada Research Chairs Program is available at: <http://www.chairs.gc.ca>. The University of Lethbridge has targeted the area of nutraceuticals and functional

foods as a largely under-exploited area of research within the growing provincial, and national, value-added foods industry. It has committed over \$1.4 million to the development of this research strategy and additional funds have been committed from a funding partner. The University is ideally positioned for a research initiative of this type because of its location within a predominantly agricultural community and because Lethbridge is home to Canada's largest Agricultural and Agri-Foods Canada research station. (ii) The tenure track position is for appointment at the rank of assistant professor. We are looking for a leader willing to participate in the growth and expansion of our research capacity. The successful candidate will be expected to develop a vigorous externally funded research program. Research in areas that complement our existing faculty will be considered advantageous, as will the ability to interface with research tools on campus (macromolecular NMR and crystallography facilities, transgenic plant and animal centers) and in the vicinity (WestGrid computational network, NANUC, Canadian Light Source). Descriptions can be found on our university and Department web site: <http://www.uleth.ca/chm/>. Excellent funding opportunities exist in Alberta through the provincial Alberta Heritage Foundation for Medical Research and Alberta Ingenuity in addition to federal sources. Applications should include: a letter of application (please make it clear to which of the positions you are applying), a detailed curriculum vitae, three current letters of reference forwarded by the referees, and a research proposal and/or detailed research plan; and be sent to: Dr. R. T. Boéré, Chair, Department of Chemistry and Biochemistry, The University of Lethbridge, Lethbridge, Alberta T1K 3M4, Tel. 403-329-2045, Fax. 403-329-2057, email: boere@uleth.ca

Applications will be accepted until the positions are filled, but consideration of complete files will commence on February 16, 2004.

January 15, 2004

**Chaire de Recherche du Canada
Département des sciences biologiques
Université du Québec à Montréal**

Le département des sciences biologiques est à la recherche d'un chercheur de haut calibre pour combler une Chaire de Recherche du Canada de niveau 2 dans le domaine de la génomique fonctionnelle pour l'année académique 2004 ou 2005. Le programme de CRC est décrit en détail à: <http://www.chairs.gc.ca>. Le candidat recherché devra développer un programme de recherche vigoureux basé sur des subventions externes dans le domaine de la génomique fonctionnelle. Une préférence sera accordée aux candidats oeuvrant dans le domaine de la génomique fonctionnelle végétale ayant une forte composante en bioinformatique. Cette initiative rejoindra les divers efforts en génomique et bioinformatique de l'UQAM (<http://www.er.uqam.ca/nobel/sarhan/>) et des autres universités de la région Montréalaise

(<http://www.genomequebec.com/asp/dirProgrammes/projets.asp?l=e>). Pour plus d'information sur le département des sciences biologiques, visiter le site <http://www.unites.uqam.ca/dsbio/>. Les offres suivront les règlements d'immigration associés aux programme de chaires de recherche du Canada - il n'y a aucune restriction imposée au niveau de la nationalité ou du pays de résidence. Les chaires de recherches du Canada sont sujettes à l'approbation par le secrétariat du CRC. Les applications doivent contenir une lettre présentant les intérêts en enseignement et en recherche, un curriculum vitae, et trois lettres de références. Adresser le tout avant le 15 février 2004 à: Dr. Michel Raymond, Directeur. Département des sciences biologiques. C.P. 8888. Succ. Centre-ville, Montréal, Québec Canada. H3C 3P8

January 12, 2004

**POSTDOCTORAL POSITION in plant proteomics
UNIVERSITY OF GLASGOW**

Postdoctoral position available to start in feb/march 2004 at the University of Glasgow. Programmed cell death or hypersensitive cell death and disease resistance are intimately connected in plants. Although resistance proteins are known to be important players in pathogen recognition little is known of the molecular mechanisms downstream of this recognition event leading to hypersensitive cell death. Genetic analysis of disease resistance mutants have revealed novel types of regulatory proteins whose biochemical functions are still unknown. We have E3 ligase protein as a key protein required for Cf-9/Avr-9 mediated hypersensitive cell death. By focussing on the biochemical function of E3 we will target specific molecular events which bring about cellular signalling during disease resistance. Detailed cell biological studies will evaluate the role of the ubiquitin-proteasome system in downstream events after pathogen recognition. The proposal aims to discover novel negative regulator proteins of programmed cell death which form the proteolytic substrates for the ubiquitin-proteasome system. Such key proteins are bound to play crucial roles in activating host cell defence responses downstream of the pathogen perception systems. This study involves the use of biochemical and cell biological techniques to probe the signalling complex in cell death and disease resistance in plants. For further details contact: Ari Sadanandom
Plant Biology Lecturer, Institute of Biomedical and Lifesciences, University of Glasgow, Glasgow G12 8QQ, Tel no. 0141 330 8639, Fax no.: 0141 3306341

UPCOMING EVENTS
2004**72^e Congrès de l'ACFAS, La Société des Savoir**

Université du Québec à Montréal, Montréal

10-14 mai 2004

www.acfas.ca/congres**2004 World Congress on In-vitro Biology**

Hyatt Regency, San Francisco, USA

22-26 May, 2004

www.sivb.org/meeting_program.asb**3rd International Plant Metabolomics Congress**

Iowa State University, Ames, Iowa

3-6 June 2004

www.bb.iastate.edu/~gfst/phomepg.html**2004 Annual meeting of the ASBMB and 8th IUBMB Conference**

Boston, MA

12-16 June 2004

www.asbmb.org/**15th International Conference on Arabidopsis Research**

Berlin, Germany

11-14 July 2004

www.arabidopsis2004.de**Joint Meeting: International Society of Chemical Ecology and Phytochemical Society of North America.**

University of Ottawa, Ottawa

25-29 July, 2004.

A symposium entitled "Chemical ecology and phytochemistry of forest ecosystems" with 12 speakers will be the major event but there will also be 5 mini-symposia and oral and poster contributions related to chemical ecology and phytochemistry in general. For further information contact the organizers:

Bernard Philogene: BPHILOG@science.uottawa.ca,Thor Arnason JARNASON@science.uottawa.caMamdouh Abou-Zaid mabouzai@NRCan.gc.caweb site (<http://www.isce-psna2004ottawa.ca>)**Plant Biology 2004 (ASPB)**

Disney's Coronado Springs Resort & Convention Center

July 24-28, 2004

www.aspb.org/meetings/pb-2004/**ABIC 2004**

Cologne, Germany

12-15 September 2004

www.abic2004.org/**FUTURE CSPP/SCPV MEETINGS**

2005 with Plant Canada, Edmonton, Alberta

2006 with ASPB, Montréal, Québec

COLLABORATORS

Gordon Gray..... CSPP/SCPV Communication Director
 Priti Krishna CSPP/SCPV Eastern Regional Director
 Dough Muench..... CSPP/SCPV Western Regional Director
 Rob Mullen..... University of Guelph
 Harold Weger CSPP/SCPV Treasurer

Note: We welcome your comments and suggestions for future publications of the CSPP/SCPV News Bulletin. Please forward all your written material to Pierre Bilodeau (secretary@cspp-scpv.ca).

Next issue of the CSPP/SCPV Bulletin:
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