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A NOTE FROM ISCB PRESIDENT

Michael Gribskov

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Now that the joint ISMB/ECCB meeting in Glasgow is upon us, I am astonished that another year has passed so quickly. This has been a stressful and busy year for ISCB and as the ISMB meeting represents the beginning of a new one I'd like to recap some of the notable events.

- The ISMB 2003 meeting was a resounding scientific success, but low attendance resulted in a loss of money for the society. This has made it difficult throughout the year to supply travel fellowships at the level we have in the past.
- Society membership dues have been restructured making the subscription to the society journal, *Bioinformatics*, optional. The practical result is that rather than simply paying most of the membership fee to Oxford University Press to cover the subscription, ISCB now retains the money for society projects. This greatly reduces our dependence on the success of the ISMB meeting.
- Many members have commented on the growing pains experienced by the society journal. OUP and ISCB have worked hard to address these issues and have made many positive changes that are resulting in more consistent reviewing, higher quality papers, and faster turn-around. I especially thank Phil Bourne and the rest of the ISCB publications committee, and Claire Saxby of OUP for their efforts. I also welcome the new executive editors Alex Bateman and Alfonso Valencia.
- As the society has grown, there have been many suggestions for starting journals in new areas. In response to this interest, ISCB issued a request for proposals for new society journals. Many replies have been received and are under consideration by the publications committee.
- The joint meeting of ECCB and ISCB is a first for the society and promises to be the most interesting ISMB meeting to date. This year's renewed thrust on bringing together experimental biologists, computational biologists, and computational scientists is timely and has reinvigorated the meeting. I hope that many of the changes instituted this year will be retained in future meetings.

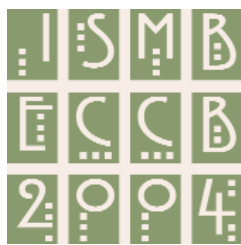


So what is our scorecard for the year? On the plus side we have made it through a very difficult year financially and are well-poised to move forward. Significant progress has been made in improving the responsiveness of the society to member interests, although much more remains to be done. On the negative side, we have not made as much progress as many of us would like to see. Much remains to be done especially in public affairs, education, special interest groups and affiliated societies and in completing the reorganization of the society. In the next year we will continue to work to invigorate the ISCB committees and look forward to your participation.

In the end, it is all about the science. ISCB represents the opportunity for everyone involved in computational biology, throughout the world, to speak with a united voice and be heard. ISCB is and should be a forum for the best scientific meetings and publications. In the next years I hope to see our membership continue to grow – not just to be big, but so that our voices can be heard. And I look forward to seeing the society sponsor a broadening range of the best computational science in all regions of the world.

See you in Glasgow,
Michael Gribskov
President, ISCB

WELCOME TO ISMB/ECCB 2004!



Well, the conference is upon us. We hope that it will prove to be fertile ground for lively discussion, new ideas, the forging of new acquaintances

and the renewal of old ones. As we tick off the final checkboxes on our task list and rejoice in a record year in terms of submissions and registration numbers, we have begun to consider why over 2000 people from all over the world decided to come to Glasgow to talk bioinformatics.

Let's think back to almost two years ago, when three organizations - the EBI, the UK Research Councils' Collaborative Computational Project in Bioinformatics (CCP11), and the Bioinformatics Research Centre at the University of Glasgow - independently decided that the time was ripe to host ECCB in the UK. It is testimony to the close-knit nature of the UK bioinformatics community that they discussed their ideas and put together a joint bid, which subsequently evolved into the unanimous decision to host ECCB together. Almost simultaneously this decision evolved into the idea of bidding to jointly host ECCB with ISMB, which was planning a return to Europe after a two year absence and looking for a host site. Hence, with approval from both the ECCB Steering Committee, and the ISCB Board of Directors, ISMB/ECCB 2004 was born.

As Europe's host for the core biomolecular data resources, the European Bioinformatics Institute (EBI) has a responsibility to promote computational biology in Europe. What better way to do this than to host an international

conference? CCP11 is used to bringing UK bioinformaticians together: it has been organizing the UK's biennial bioinformatics conference, Genes, Proteins and Computers, for sixteen years. ECCB operates a rotating scheme in which the host country's bioinformatics society organizes ECCB each year, so there was a perfect fit between CCP11 and ECCB.

The UK has one of the largest and strongest bioinformatics communities in the world, and has a well-developed system for training bioinformaticians, so we were confident that we could count on the support of the UK's bioinformaticians to make ISMB/ECCB 2004 a success. Scotland, in particular, has a rapidly growing bioinformatics community, with a number of organizations undertaking cutting-edge bioinformatics initiatives including the recently formed Scottish Bioinformatics Forum. Scottish Enterprise, Scotland's main economic development agency and one of our platinum sponsors, is actively promoting the development of biotechnology and bioinformatics in Scotland. As we're sure you'll agree as soon as you see the Scottish Exhibition and Conference Centre and experience Glasgow's unique hospitality, Glasgow is also a wonderful conference city.

Despite the potential complications of four hosts and three conferences combining forces, the planning process has run like a well-oiled machine thanks to the efforts of many people. This is your conference; we hope that each and every delegate finds it both scientifically and socially stimulating, from the pipers at the beginning to the prizes at the end.

JOURNAL RFP

Philip Bourne, Chair of the publications committee, recently distributed a Request for Proposals (RFP) to leading academic and scientific publishers soliciting an "official" Society journal. The Society's initial contract with Oxford University Press (OUP) to publish *Bioinformatics* as the official journal of the ISCB expired at the end of last year. Currently ISCB and OUP have established a one year agreement to extend the affiliation status while the Society moves through the RFP process.

The journal RFP is one step in ensuring that the ISCB associates with the highest quality of science. "We are really pleased to report that 11 publishers responded with proposals, including OUP as a continuation of our relationship with *Bioinformatics*," commented Bourne. Under his direction, the publications committee carefully reviewed all proposals and prepared a recommendation for review by the ISCB board of directors at their annual meeting in Glasgow on July 31, 2004.

"The goal is to make a decision at the annual board meeting, but if additional information or time is needed, this may not be possible," observed Michael Gribskov, ISCB President. As soon as a decision is made and all publishers are notified, an announcement will be posted to the ISCB website.

ISCB NAMES 2004 SENIOR SCIENTIST ACCOMPLISHMENT AWARD WINNER

Dr. David Lipman



The International Society for Computational Biology (ISCB) has named the second winner of its annual Senior Scientist Accomplishment Award, Dr. David Lipman, director of the National Center for Biotechnology Information (NCBI).

"Over the course of his distinguished career, Dr. Lipman contributed to several of the most important tools used in the analysis of gene sequence data, and managed the growth of many of the most essential public scientific databases. His vision and leadership of the NIH's National Center for Biotechnology Information has not only altered the course of computational biology, but of science as a whole," said Larry Hunter of the University of Colorado Health Sciences Center, chair of the ISCB award committee.

The Senior Scientist Accomplishment Award recognizes members of the computational biology community who are more than 12 to 15 years post-degree and have made major contributions to the field of computational biology through research,

education, service, or a combination of the three.

The prize will be awarded at the ISCB's annual meeting, Intelligent Systems for Molecular Biology (ISMB) to be held in conjunction with the European Conference on Computational

Biology (ECCB), in Glasgow, Scotland, from July 31 to August 4. Dr. Lipman will deliver the annual Senior Scientist Accomplishment Award keynote lecture at 14:00 on August 4 at ISMB/ECCB.

Dr. Lipman's first research efforts in computational biology began after his medical training at the State University of New York at Buffalo. Subsequently, he joined the Mathematical Research Branch of the National Institute of Diabetes, Digestive, and Kidney Diseases as a Research Fellow. In his research on computational methods, he developed widely used tools for searching biological sequence databases.

Dr. Lipman's search method papers have been cited nearly 40,000 times and are considered landmarks that have served as the basis for the discovery of biological functions for unknown sequences, furthering the understanding of the molecular basis of human disease. Among his scientific contributions are some of the canonical software of computational biology. This includes the Wilbur-Lipman algorithm, written in 1983 and considered to be the first "rapid search

tool" for molecular biology databases and which was used for the PDGF/v-sis homology; FASTP, a biological sequence comparison program for searching protein and DNA, written in 1985 with William Pearson; FASTA also written with Pearson in 1988; BLAST, written with several colleagues in 1990; and BLAST2 and PSI-BLAST, written with several colleagues in 1997.

Since 1989, Dr. Lipman has been the Director of the NCBI, a leading research center in computational biology, the creators of PubMed, one of the most heavily used sites in the world for the search and retrieval of biomedical information. He still remains active in research, most recently publishing a paper comparing mRNAs in eukaryotes in *Nucleic Acids Research*. He has received numerous awards in his career, including three Public Health Service Outstanding Service Medals and the National Institutes of Health Director's Award. He is also a member of a number of prestigious associations including the National Academy of Sciences.

The National Center for Biotechnology Information (NCBI) was established in 1988 as a division of the National Library of Medicine (NLM), based at the United States' National Institutes of Health. NCBI creates automated systems for storing and analyzing knowledge about molecular biology, biochemistry, and genetics; facilitates the use of such databases and software by the research community; coordinates efforts to gather biotechnology information; and performs research into advanced methods of computer based information processing for analyzing the structure and function of biologically important molecules.

The International Society for Computational Biology (ISCB) has announced that Uri Alon, senior scientist at the Weizmann Institute of Science in Israel, will receive the 2004 Overton Prize.

"Uri Alon epitomizes the spirit of the Overton Prize. Despite being in a relatively early stage of his career, he has made significant contributions to computational biology, particularly in the areas of network motifs and the design principles of biological networks," said Larry Hunter of the University of Colorado Health Sciences Center, chair of the ISCB Awards Committee.

The Overton Prize was established by the ISCB in memory of G. Christian Overton, a major contributor to the field of bioinformatics and member of the ISCB Board of Directors who died unexpectedly in 2000. The prize is awarded for outstanding accomplishment to a scientist in the early-to mid-stage of his or her career who has already made a significant contribution to the field of computational biology through research, education, service, or a combination of the three.

The prize will be awarded at the ISCB's annual meeting, Intelligent Systems for Molecular Biology (ISMB) to be held in conjunction with the European Conference on Computational Biology (ECCB), in Glasgow, Scotland, from July 31 to August 4. Alon will deliver the annual Overton keynote lecture, entitled "Design principles of biological networks," at 08:30 on August 4 at this summer's conference.

Alon received his PhD in theoretical physics from the Weizmann Institute, where he studied statistical mechanics and

hydrodynamics. During Alon's graduate studies he became intrigued by the biological sciences after reading a biology textbook. Subsequently, he headed for his postdoctoral studies at Princeton determined to learn experimental biology.

"It was like a thriller with miracles on each page!" Alon said. "It was nothing like physics, where matter just sits there--biology is matter that dances, machines that effortlessly self assemble, function perfectly in the noisy chemical soup of the cell, and then dissolve when not needed." He credits Dov Shvarts of the Negev Nuclear Research Center, David Mukamel of The Weizmann Institute, and Stan Leibler of the Rockefeller University for providing significant career guidance and inspiration.

Since 2000, Alon's lab at Weizmann has studied gene regulation networks experimentally and theoretically, using *E. coli* and mammalian cell-lines as model systems. His research employs accurate, high temporal-resolution measurement of gene expression from living cells and mathematical modeling to discover the design principles of biological networks. This led to the definition of "network motifs," recurring circuit patterns in biological networks, and experimental demonstration of their information-processing functions.



"Biological networks pose a challenge to science that has never yet been addressed--understanding a system with thousands of heavily interacting components, none of which can be neglected. This at first blush seems impossible," said Alon. "But the fact that these networks evolved to function appears--to us optimists at least--to have a surprising side-effect: it makes their structure understandable to human beings."

"If we manage to understand these networks, and the basic principles that make them tick, it will be the first time science has comprehended a truly complex natural system. This may open up possibilities for understanding complex networks of the type that occur in the tough and crucial sciences of the 21st century, such as ecology and sociology."

Among his most recent publications this year are the "Dynamics of the p53-Mdm2 feedback loop in living cells," in *Nature Genetics* and "Super-families of evolved and designed networks," in *Science*.



**INTERNATIONAL CONFERENCE ON
BIOINFORMATICS 2004 PLANNED
FOR "AOTEAROA" – THE LAND OF
THE LONG WHITE CLOUD**

Nau Mai, Haere Mai - Welcome to New Zealand! From September 5 through 8, 2004, the Aotea Centre in Auckland will become the site of the third International Conference on Bioinformatics (InCoB). The conference is being hosted by the Allan Wilson Centre for Molecular Ecology and Evolution and the Bioinformatics Institute, University of Auckland.

InCoB 2004 is the third annual international conference of the Asia Pacific Bioinformatics Network (APBioNet). The importance of bioinformatics in the face of the ever-increasing amounts of biological data cannot be denied and it is for this reason that scientists in the Asia Pacific region are striving to use database management, artificial intelligence, data mining and knowledge representation to provide key solutions to the questions posed by their research, particularly on local resources of economic and strategic importance. InCoB provides an international platform for experts and budding bioinformaticians to address the development of cutting-edge computational biology applications and findings on interdisciplinary research such as molecular evolution, health, agriculture, microbes and tropical diseases and on sequence and structure analysis.

For conference details see <http://www.incob.org> or send enquiries to Susan Wright at s.m.wright@massey.ac.nz

ISMB

HOSTED BY THE UNIVERSITY OF MICHIGAN

2005

CONFERENCE CHAIR: DAVID STATES

www.iscb.org/ismb2005

EXHIBIT/SPONSOR OPPORTUNITIES sponsorship05@ismbconf.org CONFERENCE INFO info05@ismbconf.org

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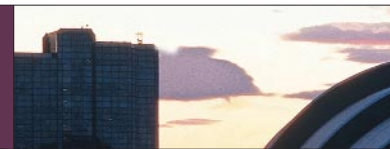
ISMB IS THE ANNUAL MEETING OF THE INTERNATIONAL SOCIETY FOR COMPUTATIONAL BIOLOGY

ISCB INTERNATIONAL SOCIETY FOR COMPUTATIONAL BIOLOGY

Michigan: June 25-29

RENAISSANCE CENTER MARRIOTT • DETROIT

ECCB 2005 - Madrid, Spain



At the end of the summer of year 2005, Madrid will be greeting the delegates attending the 4th European Conference on Computational Biology (ECCB). Following the success of Saarbrücken, Paris and Glasgow, ECCBo5 in Madrid, which will be held from September 27th to October 1st, is likely to become the largest conference on computational biology ever held in Europe. While maintaining the overall structure of the previous editions, ECCBo5 will introduce some significant changes. Rather than focusing on a particular topic, the conference will attempt to promote the interchange of ideas and experiences between scientists, and to stress the biological motivation underlying bioinformatics methodologies.

Toward these ends, we have organized two new types of sessions, in one of them two renowned scientist will present and discuss their complementary and contrasting views on the development and future of their field of work. The other new section will bring together an experimental and a computational biologist who have successfully collaborated in a biological problem. The goal is to compare their complementary views, and the different experimental and computational developments required for their collaborative work.

The conference will be sponsored by the European ECCB, the Biosapiens Network of Excellence, ISCB, "Genoma España", and the recently created Spanish Institute for Bioinformatics (INB), among others.

The steering committee includes Janet Thornton (European Bioinformatics Institute), and David Gilbert (University of Glasgow) as organizers of ISMB/ECCBo4, Antoine Danchin (Pasteur Institute), Søren Brunak (Center for Biological Sequence Analysis), Burkhard Rost (Columbia University), Philip Bucher (University of Lausanne), and Martin Vingron (Max Plank Institute, Berlin). They will work in close collaboration with the national steering committee assembled by the Spanish Network of Bioinformatics, and they will contribute greatly toward making ECCBo5 an intellectually appealing conference. Needless to say that Madrid in September will be also an interesting location, with three large museums to visit, and endless nights to enjoy the hospitality of a city open to all.

Looking forward to seeing you in Madrid!

Roderic Guigó (IMIM, Barcelona),

Federico Morán (U. Complutense Madrid),

Alfonso Valencia (CNB-CSIC, Madrid)

ECCBo5 chairs

<http://www.inab.org/>

ISMB 2006 HEADS TO BRAZIL!

The conferences committee, along with the ISCB Board of Directors approved a proposal submitted last year by Goran Neshich of EMBRAPA, to hold ISMB in Fortaleza, Ceara, Brazil, August 6 – 10, 2006. This will be the Society's first conference in South America, and we are thrilled to report that the local Brazilian team is working to ensure a scientifically superior conference in a stellar destination that will attract bioinformaticians from all the far corners of the world.

For hundreds of years, Brazil has symbolized the great escape into a primordial, tropical paradise, igniting the Western imagination like no other South American country. From the mad passion of Carnaval to the immensity of the Amazon, it is a country of mythic proportions and staggering beauty, with stretches of unexplored rainforest, pristine tropical beaches, and endless rivers.

And there are the people themselves, who delight the visitor with their energy and joy. Among the people of Brazil, the bioinformatics community has recently produced several complete genomes, significant and ever rising contributions to molecular biology, genomics and bioinformatics.

This is the site where we are preparing to receive you for ISMB 2006!



FASEB UPDATE

SCIENCE POLICY IN EUROPE AND BEYOND

In order to have a voice in science policy, ISCB has been an active member of FASEB for about a year. ISCB would like to find similar means of giving its members a voice in science policy in other areas of the world. On Tuesday, August 3, 2004, at the ISMB/ECCB conference in Glasgow, there will be an open meeting of the ISCB Public Affairs & Policies Committee. We hope to solicit from attendees the issues of most importance to them, and ideas for how to pursue education and advocacy in Europe as well as other regions.

Below are links to some other organizations active in European science policy:

Euroscience: www.euroscience.org

European Science Foundation: www.esf.org

The European Life Sciences Forum: www.elsf.org

The Biosciences Federation (serving the UK): www.bsf.ac.uk

If you know of others we should be watching in other regions of the world as well, please send them to admin@iscb.org. We will try to track their progress and form alliances where possible and appropriate.

Prepared by Barbara Bryant, ISCB liaison to the FASEB Board of Directors and Public Affairs Executive Committee

ISCB became a member of the Federation of American Societies for Experimental Biology in 2003. Updates and notices are published via the ISCB newsletter and website to keep members informed of the issues FASEB is working on. Further background on ISCB's interaction can be found at <http://www.iscb.org/newsletter7-2/faseb.html> and FASEB announcements are frequently posted at <http://www.iscb.org/faseb.shtml>.

The FASEB offers a legislative action center at <http://capwiz.com/faseb/home/> and sends alerts, such as NIH funding and stalled genetic nondiscrimination legislation, to interested members. To receive electronic legislative action alerts sign up at http://capwiz.com/faseb/mlm/?ignore_cookie=1

Recent FASEB activities in public policy:

- FASEB has participated with the National Academy of Sciences in meetings and research to develop new ideas for supporting post docs and new investigators. Some of the discussion focuses on supporting new investigators in the grant process, with mentoring, review practice changes, and rules changes.
- FASEB has been active in support of stem cell research; the topic is gaining publicity and momentum; Nancy Reagan's advocacy is one example of this.
- FASEB has been working with the Office of Research Integrity to revise proposed regulation on research misconduct.
- In response to increasing animal rights activism, FASEB is creating presentation materials useful in the education of the public as well as specialized groups. The materials describe rules on protections and animal care, how to report suspected abuse, the extent to which computer and cell line models can replace animals, and medical progress which could only have happened by means of animal research.
- Foreign students and scientists have experienced increasing difficulties in traveling to and from the United States as a result of "homeland security." FASEB is working with other organizations to advocate streamlined visa processing to address this problem.
- NIH funding levels for 2005 are looking relatively grim, with a decrease in funding after accounting for inflation. FASEB is lobbying for a larger NIH budget by trying to increase the overall allocation to discretionary funding (which includes the NIH budget), as opposed to fighting for a larger fraction of the existing dollars. This approach allows partnering with other organizations that would otherwise be competitors.
- There is concern that negative publicity surrounding congressional hearings addressing the issue of NIH employees receiving consulting fees from companies will erode public and political support for NIH.



Mark your calendars now! The Pacific Symposium on Biocomputing (PSB) 2005 will be held at the Fairmont Orchid, Big Island of Hawaii on January 4-8, 2005. Registration opens August 9, 2004, and is limited to the first 375 paid registrants.

PSB is a forum for the presentation of work in databases, algorithms, interfaces, visualization, modeling, and other computational methods, as applied to biological problems, with emphasis on applications in data-rich areas of molecular biology. The paper submission deadline has already passed, but researchers wishing to present their research without official publication are encouraged to submit a one page abstract between August 9 and November 1, 2004 to present their work in the poster sessions

The PSB has been designed to be responsive to the need for critical mass in sub-disciplines within biocomputing. For that reason, it is the only meeting whose sessions are defined dynamically each year in response to specific proposals. In this way, PSB provides an early opportunity for serious examination of emerging methods and approaches in this rapidly changing field. PSB sessions are organized by leaders in these emerging areas and targeted to provide a forum for publication and discussion of research in biocomputing's "hot topics."

To provide focus for the very broad area of biological computing, PSB is organized into a series of specific sessions. Each session will involve both formal research presentations and open discussion groups. The 2005 PSB sessions are:

- Inferring SNP Function Using Evolutionary, Structural and Computational Methods - Cochairs: Carlos Bustamante, Shamil Sunyaev and Matt Dimmic
- Biogeometry: Applications of Computational Geometry to Molecular Structure - Cochairs: Alexander Tropsha and Herbert Edelsbrunner
- Inferring Function from Structural Genomics Targets - Cochairs: Philip Bourne, Patsy Babbitt and Sean Mooney
- Computational Approaches for Pharmacogenomics - Cochairs: Marylyn D Ritchie, Michelle W Carrillo, and Russell Wilke
- Joint Learning from Multiple Types of Genomic Data - Cochairs: Eran Segal and Alex Hartemink
- Biomedical Ontologies - Cochairs: Olivier Bodenreider, Joyce Mitchell and Alexa McCray

For more information, please see the conference website at <http://psb.stanford.edu/index.html> or contact Tiffany Jung, PSB Conference Coordinator, at psb@smi.stanford.edu.

2004 ISRAELI BIOINFORMATICS SYMPOSIUM DREW RECORD ATTENDANCE

The 7th annual Israeli Bioinformatics Symposium, held in Jerusalem on May 31st, drew over 600 attendees from across the country. Prof. Hanah Margalit of the Hebrew University in Jerusalem chaired the meeting.

Keynote speakers were Dr. Eugene Koonin of NCBI, who spoke about "The human gene expression network and genome evolution," and Prof. Howard Cedar of Hebrew University, whose talk "Programming the epigenome" closed the day. John Moulton of CARB joined Itamar Simon, Ron Pinter, Gil Ast, Benny Chor, Rotem Sorek, and Itai Yanai to round out the program.

Prizes were awarded for the three best student posters: Alon Kaufman et al., Hebrew University, "Making sense out of multiple knockout experiments"; Tal Dagan et al., Tel Aviv University, "Unitary pseudo-genes in bacterial genomes: lifestyle and gene loss"; and Elon Portugaly and Matan Ninio, Hebrew University, "HMMERHEAD: HMMer hashing enabled acceleration device."

At the business meeting of the Israeli Society for Bioinformatics and Computational Biology (ISBCB), Prof. Ron Shamir of Tel Aviv University replaced Hanah Margalit as Society President. Prof. Marvin Edelman of the Weizmann Institute of Science was elected Vice President.

See <http://eia.md.huji.ac.il/ibs> for further details, including abstracts of the 80 posters exhibited.

ISCB OFFICER ELECTIONS TO BEGIN SOON

In February of this year Dietlind Gerloff, ISCB Nominations Committee Chair, put out a call for nominations to fill Board of Directors and Officer positions to take office in January, 2005. At the time of this writing the current board is electing the new board members, with an announcement to be made at the Open ISCB Business Meeting during ISMB/ECCB in Glasgow, Scotland on August 1.

The election of Officers is determined by a vote of the membership of the Society per the following schedule:

August 23

Final Officer candidates announced to membership with invitation to address questions to candidates

August 23- September 22

Q&A period between Officer candidates and members

September 22

Send Election materials to membership; in order to vote in the current election cycle, a member must have joined ISCB by this date.

September 22 - October 6:

Members cast votes on web site

October 11:

Final results announced to membership

October - January:

Training Period for new Officers and Directors

January 21, 2005

New Officers take office

The following members have been certified eligible to run, and have completed the candidate statement with the information below. Please review their statements as you consider your upcoming opportunity to vote. Then be sure to respond to the elections notice on September 22 by casting your vote online.

VICE PRESIDENT CANDIDATES (THREE CANDIDATES RUNNING)

JANICE I GLASGOW



Professor and Research Chair
School of Computing
Queen's University
janice@cs.queensu.ca

Topics of Research:

My research involves the application of artificial intelligence techniques to the problem of determining protein structure.

Approaches using crystallographic

data and contact maps are currently being considered.

Major Issues Facing ISCB:

The major issue is the rapid growth of the field and how to maintain a cohesive society that can work cooperatively with smaller national groups.

Plans to Address Issues:

I believe one way to address the issue is to consider ways in which the societies major conferences can work together and with more local conferences. It may be that ISMB, for example, not occur

every year but bi-yearly so the focus for the other years can be more local/national.

Non-Scientific Expertise:

- Member of editorial boards for several journals
- Previous Head of Department
- Previous President Canadian Society for Computational Studies of Intelligence
- Previous Vice-Chair International Federation for Information Processing (AI)
- Founder of Undergraduate Program in Biomedical Computing at Queen's University

Service to Field or ISCB:

- Member Board of Directors 1997 - 2000
- Member Conference Committee 2000 - present
- Program Chair ISMB 1998 Program Co-Chair ISMB 2002
- Member Program Committee ISMB 2001

Committees of Interest:

- Conferences (Have already served on this committee for several years.)

BURKHARD ROST



Associate Professor
Columbia University,
Biochemistry
rost@columbia.edu

Topics of Research:

We try to predict aspects of protein structure and function from the evolutionary information contained in families of protein sequences. The main current

projects are to (1) predict functional classes for orphans, (2) the sub-cellular localization from sequence, and (3) protein-protein, and protein-substrate interactions from sequence and predicted structure. We also continue to work on structure prediction.

Major Issues Facing ISCB:

- Consolidation of society (financial/definition of what we want to gain from it/addition of more young members)
- Strengthen connections to experimental biologists, manage reach-out/close collaboration to related societies (Systems Biology)
- Improve scientific visibility.

Plans to Address Issues:

- Consolidation: Improve meetings of the society, in particular of

ISMB - strengthen regional meetings, avoid break-off of groups (EECB) where possible - bring new members in by making it more appealing for them to join (e.g. let them vote what will be presented at ISMB) - give BOD and related people more time to discuss principle problems/issues/solutions

- Connections to related fields: Organize common meetings with other biologists and related disciplines, possibly find common publication forum
- Scientific visibility: Stronger support for Outreach committee - find new media (to coordinate with publication/education committee)

Non-Scientific Expertise:

SAB of LION Biosciences; associated with the early stages of beginning LION Biosciences; association with/work for Union of Concerned Scientists (in the 80s)

Service to Field or ISCB:

- ISMB Program Committee since 1995
- ISMB co-organizer 2002
- ISMB Area Chair since 2002
- ISCB BOD since 2002
- ISCB committee member (conferences/nominations/paper reviews-chair)

Committees of Interest:

Publications, Conferences, Education, Nominations

BARBARA BRYANT



Associate Director
Millennium Pharmaceuticals
bryant@mpi.com

Topics of Research:

I analyze microarray data from clinical samples to find patterns of gene expression predictive of response to a drug therapy.

Major Issues Facing ISCB:

- ISCB members and board have shown interest in having a voice in public policy. ISCB joined the Federation of American Societies for Experimental Biology (FASEB) in order to participate in their well-established and effective public affairs function. ISCB needs to connect its members more directly to the FASEB public affairs activities.
- ISCB also needs to identify ways to have such a voice in other countries.

- ISCB had a tough year financially in 2003. We need to be on good financial footing going forward.
- ISCB needs to have more of its members actively participating in its business. While ISCB has a very small staff, most of the work must be done by volunteers.
- ISCB needs to work more successfully with other groups and organizations.
- ISCB needs to continue to increase the quality of its conferences and journal.

Plans to Address Issues:

- ISCB needs to set up more electronic and face-to-face mechanisms to communicate with its members on public affairs issues.
- ISCB needs to identify and tackle issues of interest to the membership.
- ISCB needs to engage members from many countries in public affairs, and identify organizations with whom we could partner in affecting science policy.
- ISCB needs to diversify its sources of income, not relying so heavily on ISMB alone. The board of directors should be educat-

ed about and feel accountable for the financial health of the Society.

- ISCB needs to nurture its new Student Council, and find other ways to bring members onto committees and task forces. The governance structure of ISCB needs to be revisited in order to set up clear paths for development of individuals and participation by members.
- ISCB needs to aggressively identify potential partner and member organizations, and work with them to identify and carry out win-win relationships.
- ISCB needs to consider and adopt out-of-the-box ideas for change in both conferences and publications. We need to aggressively recruit biologists into our meetings and journal.

Non-Scientific Expertise:

- I have training and experience in facilitation and mediation.
- I served on the board of directors, including stints as Vice-President and President, of the non-profit, collaborative Cambridgeport Children's Center.
- I have ten years of management experience in industry.
- My strengths are listening, capturing people's concerns and ideas, and framing the issues.

Service to Field or ISCB:

- I have served on the board of ISCB for several years, including two and one half years as Secretary, on the Executive Committee.
- I was appointed the ISCB representative to FASEB's board of directors. At FASEB, I sit on the Science Policy Committee, and I've been asked to chair the Corporate Relations committee, where we've taken on the tasks of identifying areas of joint interest between FASEB and industry, and drafting guidelines for FASEB's interactions with industry.
- I've participated in strategic planning exercises for both ISCB and FASEB.
- I have acted as reviewer in the field of computational biology for NIH, conferences, journals, and the development of master's degree programs.
- And, last but not least, I've organized the orienteering ice-breaker at the last three ISMB conferences.

Committees of Interest:

Publications, Conferences, Public Affairs & Policies, Affiliates & SIGs, Governance, Executive Committee (as Secretary since 2001)

SECRETARY CANDIDATE (UNCONTESTED)

MICHAL LINIAL



Professor of Biochemistry and Molecular Biology
Dept of Biological Chemistry
The Hebrew University of Jerusalem
michall@cc.huji.ac.il

Topics of Research:

- Cell biological aspects of neuronal presynaptic functions and control of neurotransmitter release.
- Molecular and Genomics methodologies in the study of developing neurons and secretory model systems.
- Bioinformatics – Large-scale studies of biological sequences and their global organization.
- Genomics and Proteomics

Major Issues Facing ISCB:

- Bridging the gap between 'classical biology' and 'computational oriented research' and 'technological advances' by increasing the dialog.

- Helping in introducing 'neglected topics' to the field of computational biology (i.e., computational neuroscience)
- Strong support for knowledge exchange and expertise sharing.

Plans to Address Issues:

- Supporting summer school, tutorials and focused advanced discussion groups.
- Merging with other regional major activities.
- Students exchange programs.
- Adding high quality reviews to publications in the field.

Non-Scientific Expertise:

- A 'problem solver'
- Large experience in organizing meeting at different level.
- Leading educational programs.

Service to Field or ISCB:

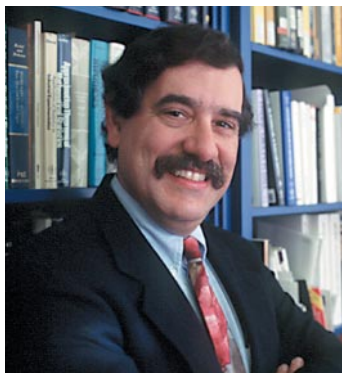
- ISCB Board of Directors -from January 2004
- Steering committee in ESF2002, ECCB2003
- Program committee in RECOMB, ISMB in recent years

Committees of Interest:

Conferences, Education

TREASURER CANDIDATE (UNCONTESTED)

DAVID M ROCKE



Professor
Institute for Data Analysis and
Visualization
University of California, Davis
dmrocke@ucdavis.edu

Topics of Research:

The main focus of my research is the development of methods for the design and analysis of experiments using high-

throughput assay data such as gene expression arrays, proteomics by mass spec, and metabolomics by NMR spectroscopy.

Major Issues Facing ISCB:

- The finances of ISCB are not yet on a firm footing. They are too dependent on a single meeting (ISMB) and the present revenues are not sufficient to sustain the needed growth of the society.
- The organization of ISCB needs some improvements to better meet the goals of the society.
- We need to continue to improve the ISCB sponsored publications. We need to explore the eventual establishment of additional high-quality publication outlets for our work.
- We should explore more extensive cooperation with other related professional societies, including joint sponsorship of meetings and possibly journals. These may include societies from both the biological side (such as our fellow FASEB societies) and from the computational/mathematical/statistical side such as ACM, IEEE, SIAM, and ASA.
- We should assist in developing curricula and publications to further education in computational biology and bioinformatics.

Plans to Address Issues:

I believe that we are beginning as a BOD to address many of these issues. I think an important additional route to improvement is to gain information from our sister societies both in biology and in computation/mathematics/statistics. How are they financed? What services do they provide for members? How is the board and staff organized? How are committees appointed? We need to investigate more extensively the opinions of our members on what ISCB can do for them and for the discipline. We should conduct a carefully-planned, scientifically-designed survey of members and potential members (such as attendees at relevant meetings) to help in the already ongoing strategic planning effort.

Non-Scientific Expertise:

Although I am now appointed in the School of Medicine and the College of Engineering at UC Davis, I spent 25 years teaching statistics and management science in schools of business. Through teaching, seminars, and some formal course work, I have acquired a working knowledge of the basic business disciplines, including finance, accounting, and management information systems. I now manage a research center with a \$5 million budget, and have been Vice-Chair of my main department. I have also been Treasurer of ISCB for two and a half years, and have a good idea of the financial and organizational challenges we face.

Service to Field or ISCB:

- I have been Treasurer of ISCB since January 2002.
- As a member of the Executive Committee of the BOD, I have been involved in all major decisions.
- I am chair of the Finance Committee of the ISCB, and am helping with the financial aspects of ISMB.

Committees of Interest:

Publications, Conferences, Finance, Public Affairs & Policies

INTRODUCING THE INAUGURAL MEMBERS OF THE ISCB STUDENT COUNCIL

On August 3, 2004, during a special ISMB/ECCB lunch session, the initial work of the inaugural ISCB Student Council will be unveiled. The inaugural team has spent months of hard work developing ideas submitted by dozens of ISCB student/trainee members into strategic priorities, goals and action plans to address the unique needs of students and young scientists in the very early stages of their careers. All student/trainee ISCB members in attendance at ISMB/ECCB 2004 are encouraged to attend this special lunch session to learn

what the council can do for you and how you can become a member of the Student Council. Non-members are also invited to attend this special session, and encouraged to consider membership in the Society to take advantage of this exciting opportunity to join in the future success of the ISCB Student Council.

The board of directors and staff of the ISCB would like to thank the following student/trainee members for their enthusiasm and hard work as members of the inaugural Student Council. They initially worked together through the development of a mission statement, then separated into virtual work groups to develop proposals for each of the specific areas that currently make up the Student Council's strategic plan, and ultimately reunited to review and refine the unified plan to be presented during ISMB/ECCB. Throughout the process their ability to work as a team, especially given that none of them were working from the same location, was truly commendable.

If you encounter any of these individuals during the conference or anytime thereafter please be sure to thank them for their hard work and ask how you can now get involved. They are overflowing with ideas and energy, and are sure to sign you up on the spot!

INAUGURAL CHAIR:

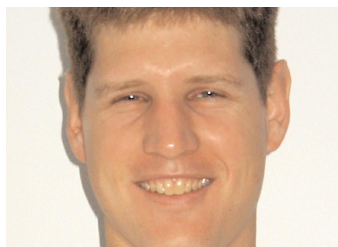


Manuel Corpas

EVENTS



Sarath Chandra Janga
Group Leader



Michael Sierk



Toni Gabaldon



Michael Hoffman

OUTREACH



Amonida Zadissa
Group Leader



Debra Goldberg
*(also serving as inaugural
Vice Chair)*



Shweta Bansal



Nandita Mullapudi

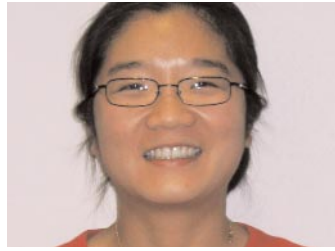
OPERATIONS



T.R. Janarththanam
Group Leader



Amandeep S. Sidhu

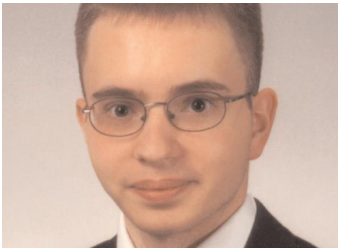


Annie Chiang



John Pinney

BUSINESS RELATIONS



Thomas M. Smith



Rebecca Lynn Luzcando

NOT PICTURED

Kyle L. Jensen
Group Leader

Robert Park

MARKETING



Shwetal Patel
Group Leader



Shailesh Date



Shaun Mahony



Peter Oledzki



Lan Zhang



5TH INTERNATIONAL CONFERENCE ON SYSTEMS BIOLOGY IN HEIDELBERG OCTOBER 9 - 13, 2004

BIOINFORMATICS BOOKS LIST

As an added service to the bioinformatics community, a selection of bioinformatics books is now listed at www.iscb.org/bioinformaticsBooks.shtml. All books are listed alphabetically by author with links for more detailed information including the table of contents, number of pages, etc.

If you are an author, editor or publisher of a book of interest to bioinformaticians that you would like to see added to our site, please write to us at admin@iscb.org. We will consider all requests as we build upon the usefulness of this new books list.

And now, if you see a book you want to buy you can click directly through to make your purchase through Amazon.com. Additionally, the link from ISCB does not restrict your orders to the books listed on our site, so you can search for additional titles or products of interest, and complete all of your online reading and entertainment shopping in one easy session.

To see if you can find the book you have been meaning to order, go to the above URL now. If the book is not listed, do let us know! We will be happy to consider adding it for your next visit.



The 5th International Conference on Systems Biology (ICSB) 2004 will take place in picturesque Heidelberg during the peak of fall foliage in October, adding a multitude of colour to an already splendid city and much anticipated conference. ICSB 2004 will continue a series of annual conferences on Systems Biology that was initiated by Hiroaki Kitano in 2000 in Tokyo. Since then the ICSB conferences have grown to one of the most important international academic conferences with a focus on systems biology. Again in 2004, the event will be an excellent occasion to review and engage in the current status of this field.

Prior to the conference presentation programme, the 9th and 10th October 2004 will offer the opportunity to participate in tutorials and workshops for in-depth study of systems biology topics. This event will be hosted by the German Cancer Research Center (DKFZ) in Heidelberg.

From October 11 on, the conference programme will offer 40 top notch lectures and presentations in the historic building of the Heidelberg Convention Center, located reverine to the Neckar in the old town of Heidelberg. Invited speakers are Denis Noble, Bernhard O. Palsson, Marc Kirschner, Philip Kuchel, Hermann-Georg Holzhtter; Jan Ellenberg, Howard Petty, Pedro Mendes,

Michael Surette, Masaru Tomita, Reinhart Heinrich, Upinda S. Bhalla, Barbara Bakker, Jens Nielsen, and Yuri Lazebnik. Beside this invited speakers panel additional presenters were selected by an international scientific committee that has reviewed over 300 abstract submissions. Accordingly the ICSB 2004 will offer a poster presentation programme with about 250 posters in combination with a company exhibition that reflects the market potential of systems biology in the 21st century.

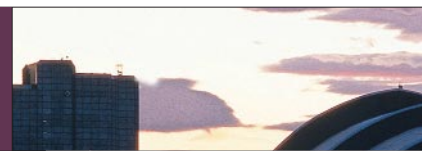
Details on the conference programme as well as application procedures for last minute posters, poster awards, registration and social programme information, or details of the company exhibition can be found on the website www.iscb2004.org

The ICSB 2004 will reflect the long tradition in modern research and science in Heidelberg. Its Ruperto-Carola University is together with the European Molecular Biology Laboratory (EMBL) and the German Cancer Research Center (DKFZ) among the 25 top life science research institutions worldwide. Several biotechnology companies with a strong focus on Systems Biology round out the strong position of Heidelberg in the fields of genomics, functional genomics and systems biology.

Beside these highlights Heidelberg has to offer a lot of sight-seeing and gastronomic delights, wining and dining for conference participants. Especially the old town and castle of Heidelberg made it a center for German Romanticism and a main attraction for international tourists visiting Germany.

The organizers of ICSB 2004 are looking forward to welcoming you in Heidelberg!

ISCB Committees to Meet During ISMB/ECCB 2004



As ISMB is the Society's annual conference, this provides a unique opportunity to meet and revisit with a large percentage of our members all in one place. All ISCB member attendees of the conference are encouraged to participate in our ISCB/ECCB Open Business Meeting on Sunday, August 1st at 13:00 hrs in Hall 1. We will review the state of the Society as well as address new initiatives (such as the new Student Council) and emerging issues in public policy in the US and Europe that impact everyone in our scientific community, no matter their global address.

So much of the important work of the Society is accomplished through the commitment of dedicated member volunteers serving on one or more ISCB committees. During the ISMB conference, each committee takes advantage of this annual opportunity to meet face to face. The committees review their previous year's accomplishments, set priorities for the coming year, and establish task groups to plan activities toward achieving the essential future works of the ISCB for the greater good of our scientific community.

For all members attending ISMB/ECCB 2004, please accept this open invitation to participate in the committee meetings of greatest interest to you in order to lend your voice and/or volunteer your time. All non-ISCB members attending the conference are equally as welcome to attend our committee meetings, and we hope you will find inspiration to join the Society and become involved as a committee member.

A description of each committee can be found in the ISMB/ECCB 2004 Program Book. To the right is a listing of committee meetings; all are being held on the first floor of the Scottish Exhibition and Conference Center in the Loch Suite area:

MONDAY, AUGUST 2, 2004

12:30 – 14:00
Publications Committee *Dochart Room 1*

12:30 – 14:00
Education Committee *Dochart Room 2*

18:00 – 19:00
Conferences Committee *Dochart Room 1*

18:00 – 19:30
Public Affairs & Policies Committee *Dochart Room 2*

TUESDAY, AUGUST 3, 2004

12:30 – 14:00
Affiliates & SIGs Committee *Dochart Room 1*

12:30 – 14:00
Finance & Business Dev. Committee *Dochart Room 2*

12:30 – 14:00
Student Council Meeting *Hall 1*

If you are not in attendance at the conference but would like to get active in an ISCB committee please see <https://www.iscb.org/committees.shtml> for the committee descriptions and current member composition and then write to admin@iscb.org to indicate which committee you are interested in and how you might help. We would love to have you!

MARC VISITING SCIENTIST PROGRAM

The Federation of American Societies for Experimental Biology (FASEB) Visiting Scientists Program for Minority Institutions was initiated in 1981. In this Minority Access to Research Careers (MARC) program, U.S. based FASEB member scientists (see <http://www.faseb.org/faseb/societies.html>) visit minority institutions for periods of one or more days to present lectures and seminars of general and practical interests; provide advice on research, curriculum, and graduate opportunities; discuss career trends and opportunities in the biomedical/ behavioral sciences; and assist in the preparation and development of grant proposals. Follow-up visits by the scientists are encouraged as a means of fostering collaborative research opportunities, as well as creating opportunities for reciprocal visitations by faculty and students from the host minority institutions. Feel free to visit <https://career.faseb.org/marc/visit.html> for further details on the program and information on how you can participate in this program.

Applications are accepted online at <http://ns2.faseb.org/vsp/vspapp.asp> and a full list of US Department of Education approved minority institutions is available at <http://www.ed.gov/about/offices/list/ocr/edlite-minorityinst.html>

FOR MORE INFORMATION PLEASE CONTACT

Cheryl Wright, Program Coordinator

Email: cwright@faseb.org



EVENTS AND OPPORTUNITIES OF INTEREST

NEWS & EVENTS FORUMS ON THE ISCB WEBSITE

If you have a bioinformatics conference or event to announce, or news to share with our community, be sure to post it directly to the ISCB website for widespread dissemination of information. Over 35,000 visitors view the ISCB site monthly, so your exposure is maximized with this valuable free tool.

Upcoming conferences and events can be submitted at www.iscb.org/events_post.php, while news of a new product, publication, collaboration opportunity, fellowship program or any other information such as might be distributed in the form of a press release can be submitted at www.iscb.org/news_post.php. All submissions will be reviewed by ISCB staff to ensure appropriate content prior to posting to the conferences or news pages of the website. Events will remain posted on the site until five days after the start of the event, and news will remain for 90 days from the date of posting.

CORPORATE MEMBERSHIP OPPORTUNITIES

If the opportunity to become a sponsor of the ISCB through a corporate membership appeals to your organization as one that fulfills a social responsibility goal toward international outreach for the Life Sciences community, we want to hear from you. We are actively developing programs that jointly fulfill the needs of industry partners and those of the Society. All sponsorships are customized to meet the unique goals of each of our partners.

For customized information about corporate sponsorship opportunities for your company please contact BJ Morrison McKay, Executive Officer, at admin@iscb.org.

SHORT COURSE IN CANCER BIOINFORMATICS

DATE: Aug 04-06, 2004

LOCATION: Ann Arbor - MI - USA

URL:

<http://www.bioinformatics.med.umich.edu/short-course2004/index.html>

SHORT COURSE IN PROTEOME INFORMATICS

DATE: Aug 05-07, 2004

LOCATION: Ann Arbor - MI - USA

URL:

<http://www.bioinformatics.med.umich.edu/short-course2004/index.html>

SHORT COURSE IN BIOINFORMATICS

DATE: Aug 18-20, 2004

LOCATION: Ann Arbor - MI - USA

URL:

<http://www.bioinformatics.med.umich.edu/short-course2004/index.html>

ALGORITHMS FOR MACROMOLECULAR MODELLING IV

DATE: Aug 18-21, 2004

LOCATION: Leicester - UK

URL: <http://www.am-3.org>

4TH ACM SIGKDD WORKSHOP ON DATA MINING IN BIOINFORMATICS

DATE: Aug 22-, 2004

LOCATION: Seattle - WA - USA

URL: <http://www.cs.rpi.edu/~zaki/BIOKDD04>

2004 INTERNATIONAL CONFERENCE ON BIOINFORMATICS (INCoB)

DATE: Sep 05-08, 2004

LOCATION: Auckland - New Zealand

URL: <http://www.incob.org>

NETTAB 2004 WORKSHOP ON "MODELS AND METAPHORS FROM BIOLOGY TO BIOINFORMATICS TOOLS"

DATE: Sep 05-07, 2004

LOCATION: Camerino - MC - Italy

URL: <http://www.nettab.org/2004/>

WABI - WORKSHOP ON ALGORITHMS IN BIOINFORMATICS

DATE: Sep 14-17, 2004

LOCATION: Bergen - Norway

URL: <http://www.iu.uib.no/algo2004/wabi2004/>

AN INTRODUCTION TO BIOINFORMATICS: A PRACTICAL APPROACH

DATE: Sep 20-21, 2004

LOCATION: Coventry - UK

URL: <http://www.bio.warwick.ac.uk/shortcourses>

FOURTH VIRTUAL CONFERENCE ON GENOMICS AND BIOINFORMATICS

DATE: Sep 21-24, 2004

URL: http://www.virtualgenomics.org/conference_2004.htm

KES 2004 - SPECIAL SESSION "INTELLIGENT SYSTEMS FOR BIOMEDICAL DATA PROCESSING"

DATE: Sep 22-24, 2004

LOCATION: Wellington - New Zealand

URL: http://bic-gh.ipk-gatersleben.de/wgrp/muel_downloads/cfp_kes2004.pdf

GENOME INFORMATICS

DATE: Sep 22-26, 2004

LOCATION: Cambridge - UK

URL:

<http://meetings.cshl.edu/2004/2004infouk.htm>

INFORMATION, STRUCTURE, AND COMPLEXITY (GISC 2004)

DATE: September 25, 2004

LOCATION: Dobbiaco (BZ) - Italy

URL: <http://bioinf.dimi.uniud.it/bci/workshop>

INTERNATIONAL CONFERENCE ON SYSTEMS BIOLOGY (ICSB) 2004

DATE: Oct 09-13, 2004

LOCATION: Heidelberg - Germany

URL: <http://www.icsb2004.org>

IPG'04

DATE: Oct 13-15, 2004

LOCATION: Lyon - France

URL: <http://ipg.insa-lyon.fr/>

PATHWAYS, NETWORKS AND SYSTEMS: THEORY AND EXPERIMENTS

DATE: Oct 15-20, 2004

LOCATION: Heraklion - Crete - Greece

URL: <http://www.aegeanconferences.org>

YOUNG BIOINFORMATICIANS' FORUM

DATE: Oct 19, 2004

LOCATION: Oxford - Oxon - UK

URL: <http://www.jenner.ac.uk/YBF/YBF.htm>

7TH ANNUAL CONFERENCE ON COMPUTATIONAL GENOMICS

DATE: Oct 21-24, 2004

LOCATION: Reston - VA - USA

URL: <http://www.tigr.org/conf/cg>

APPLICATIONS OF CHEMINFORMATICS AND CHEMICAL MODELLING TO DRUG DISCOVERY

DATE: Nov 08-19, 2004

LOCATION: Zeiningen - Switzerland

URL: <http://echeminfo.com/>

ALTERNATE TRANSCRIPT DIVERSITY - DATA, BIOLOGY, AND THERAPEUTICS

DATE: Nov 22-23, 2004

LOCATION: Hinxton, Cambridgeshire - UK

URL: <http://www.ebi.ac.uk/Information/events/atd-sympol/>

INTERNATIONAL BCB-WORKSHOP ON GENE ANNOTATION ANALYSIS AND ALTERNATIVE SPLICING

DATE: Dec 13-14, 2004

LOCATION: Berlin - Germany

URL: http://www.medizin.fu-berlin.de/molbiochem/bioinf/Konferenz_04/Start.html

INTERNATIONAL CONFERENCE ON BIOINFORMATICS AND ITS APPLICATIONS (ICBA'04)

DATE: Dec 16-19, 2004

LOCATION: Ft. Lauderdale - FL - USA

URL: <http://polaris.nova.edu/MST/ICBA2004>

PACIFIC SYMPOSIUM ON BIOCOMPUTING (PSB) 2005

DATE: Jan 04-08, 2005

LOCATION: Big Island - Hawaii - USA

URL: <http://psb.stanford.edu/index.html>

DBiBD: WORKSHOP ON DATABASE ISSUES IN BIOLOGICAL DATABASES

DATE: Jan 07-08, 2005

LOCATION: Edinburgh, Scotland - UK

URL: <http://dbibd-05.inf.ed.ac.uk/>

THIRD ASIA-PACIFIC BIOINFORMATICS CONFERENCE

DATE: Jan 17-21, 2005

LOCATION: Singapore

URL:

<http://www.deakin.edu.au/~phoebe/APBC2005/>

Worldwide Educational Programs

CB is committed to making important information available to our full scientific community, and education is key among our priorities of value to all. Each of the universities and educational institutes listed below offer a degree or certificate in or with a focus on bioinformatics, computational biology or genomics. To view details about these programs and the degree or certificate offered, visit https://www.iscb.org/univ_programs/program_board.php

aylor University, USA

randeais University, USA

anisius College, USA

olumbia University, USA

ontinual Education Institute of the Pompeu Fabra University, Spain

ornell University/Rockefeller University/Sloan Kettering Cancer Research Center, USA

ranfield University, UK

CU Center for Computational Biology, USA

Dublin City University, Ireland

Flinders University, Australia

George Mason University, USA

Indiana University School of Informatics (Bloomington), USA

Institute of Bioinformatics and Applied Biotechnology, India

International Institute of Information Technology, India

Iowa State University, USA

Katholieke Universiteit Leuven, Belgium

La Trobe University, Australia

Marine Biological Laboratory, USA

National University of Ireland, Ireland

Northeastern University, USA

Purdue University, USA

South African National Bioinformatics Institute, South Africa

St. Joseph's College of IT & Management Studies, India

Stanford University, USA

Technical University of Denmark, Denmark

The George Washington University, USA

The Hebrew University of Jerusalem, Israel

The Johns Hopkins University Advanced Academic Programs, USA

Universitat Pompeu Fabra and Universitat de Barcelona, Spain

University of California, Berkeley, USA

University of California, Santa Cruz, USA

University of Cambridge, UK

University of Colorado Health Sciences Center, USA

University of Exeter, UK

University of Glasgow, UK

University of Idaho, USA

University of Minnesota, USA

University of New South Wales, Australia

University of Nijmegen, Netherlands

University of Oxford, UK

University of Sfax, Tunisia

University of Skovde, Sweden

University of Southern California, USA

University of Tennessee, USA

University of Ulster, UK

University of Wales College of Medicine, UK

University of York, UK

Virginia Commonwealth University, USA

Virginia Tech, USA

Washington University, St. Louis, USA

Weizmann Institute of Science, Israel

If your institution features a program that is not listed here, any faculty or program administrator may add it directly to the ISCB website by following the link from the above mentioned URL.

How are We Doing?

Please email ISCB at admin@iscb.org with any comments, questions, or concerns regarding the website (www.iscb.org), this newsletter, or any other ISCB effort. The ISCB staff aims to meet the needs of ISCB's membership—member advice helps in meeting this objective.

ISCB acknowledges the support from the San Diego Supercomputer Center, at the University of California, San Diego, which provides office space and the computational infrastructure for the ISCB web resource and underlying databases.



www.iscb.org

INTERNATIONAL SOCIETY FOR COMPUTATIONAL BIOLOGY