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TIME TO RENEW YOUR MEMBERSHIP FOR YEAR 2001

It's time to renew your membership for the year 2001. Members who renew their membership between now and end of February will get the advantage of not getting the increased membership fee, which won't become effective before March 1, 2000. Please renew now!

MEMBERSHIP DIRECTORY

Your executive committee, in concurrence with the Board of Directors, will put out a hardcopy printed membership directory for members in winter/spring of 2001.

We intend to publish member's name, institution, address, telephone, fax number and email address. If you do not want to be listed in the directory, please contact admin@iscb.org. If we do not hear from you, we will include all the above information in the directory. This directory will NOT be made available in electronic form. In addition, we remind you that we have very strict quality control rules for giving member information in electronic form, and most often simply provide printed mailing labels to protect members from excessive electronic solicitations.

PSB PROCEEDINGS NOW ONLINE

The PSB meeting on the island of Hawaii is now sold out, with registrations only available if cancellations are received and can be accommodated. The conference web site is <http://psb.stanford.edu/> and the online proceedings are available now at [available now at http://www.smi.stanford.edu/projects/helix/psb-online/](http://www.smi.stanford.edu/projects/helix/psb-online/).

ISMB2001 - FIRST CALL FOR PAPERS

The Ninth International Conference on Intelligent Systems for Molecular Biology (ISMB2001) July 21 - July 25, 2001 Copenhagen, Denmark <http://ismb01.cbs.dtu.dk>

A. INTRODUCTION

ISMB provides a general forum for disseminating the latest developments in bioinformatics. It is a multidisciplinary conference that brings together scientists from molecular biology, computer science, mathematics and statistics. Its scope includes the development and application of advanced computational methods for biological problems at the levels of sequences, cells, organs, and organisms.

Relevant computational techniques include: machine learning, pattern recognition, knowledge representation, databases, combinatorics, stochastic modeling, string and graph algorithms, linguistic methods, robotics, constraint satisfaction, and parallel computation.

Biological areas of interest include: molecular structure, genomics, proteomics, molecular sequence analysis, evolution and phylogenetics, molecular interactions, gene expression, metabolic pathways, regulatory networks, developmental control, and molecular biology generally.

B. SPECIAL EMPHASIS

ISMB2001 will particularly encourage submissions with an emphasis on knowledge discovery from the modeling and simulation of complex biological systems. This includes interpretation of large-scale gene expression data, whole genome comparative analysis, mathematical modeling of biochemical pathways, and interpretation of large macromolecular assemblies using data at different resolutions.

C. KEYNOTE SPEAKERS

Christopher M. Dobson, University of Oxford Gunnar von Heijne, Stockholm University Sean Eddy, Washington University Bernardo Huberman, Xerox PARC Chris Sander, MIT Center for Genome Research [Others to be announced]

D. LOCATION

The four-day conference and additional tutorial sessions will be held in Tivoli Gardens. Tivoli Gardens is one of the world's oldest amusement parks, situated in the very heart of Copenhagen - a location easily accessible from Copenhagen airport.

Tivoli Gardens has rides and games, but also concerts and performances by some of the world's finest artists. It has dozens of restaurants serving everything from fast food to international haute cuisine. The Gardens have a multitude of flowers, shrubs and trees, which at night are illuminated with festive coloured lights. For more information about Tivoli Gardens please visit:

<http://www.tivoligardens.com>

Copenhagen can offer close to 10,000 hotel rooms ranging from small family hotels to five-star luxury hotels. It is also possible to stay in one of the city's seven youth hostels or sleep-ins. The hotels chosen for ISMB2001 are all located in central Copenhagen, most of them within walking distance of the conference venue. For more information about Copenhagen, please visit: [visit: http://www.ctw.dk](http://www.ctw.dk)

E. CONFERENCE FORMAT

The conference will feature original, refereed papers, software demonstrations, posters, and introductory and advanced tutorials. There will also be a job fair, and an exhibition of hardware and software vendors. Papers will be published in an archival proceeding and indexed in the Medline database. The proceedings will be provided to participants as a bound volume at the conference.

F. SUBMISSION INFORMATION

Attendees are invited to submit papers for oral presentation at ISMB2001. Submitted papers should be a maximum of 12 pages (including title, abstract, figures, tables, and bibliography), single spaced, and set in 12 point type. The first page should give keywords, postal and electronic mailing addresses, as well as telephone and fax numbers.

Papers - in pdf or postscript format only - should be submitted electronically directly via the conference website:

http://ismb01.cbs.dtu.dk/call_papers.html

Here you will also find additional paper submission information. Deadline for paper submission receipt: February 5, 2001

ISMB2001 welcomes proposals for half-day or full-day introductory or advanced tutorials. The tutorials will be given on Saturday, July 21, prior to the meeting. A short proposal should be submitted electronically directly via the conference website:

<http://ismb01.cbs.dtu.dk/tutorials.html>

Deadline for short proposal receipt: January 22, 2001 A full, 3-page proposal is due on: February 12, 2001

If you wish to present a poster at ISMB2001, please submit a short poster abstract before May 10, 2001. The poster abstract submission form can be found at:

<http://ismb01.cbs.dtu.dk/callforposters.html>

Questions pertaining to the submission of papers, posters, and tutorial proposals should be addressed to ismb01submissions@cbs.dtu.dk

G. KEY DATES

Meeting:

Tutorial presentations: July 21, 2001

Paper presentations: July 22 - 25, 2001

Paper submissions

Papers must be received by: February 5, 2001

Replies to authors by: March 12, 2001

Revised papers must be received by: April 2, 2001

Tutorial proposals

Short proposals must be received by: January 22, 2001

Full proposals must be received by: February 12, 2001

Replies to proposers by: March 1, 2001

Draft hand-outs must be received by: April 2, 2001

Final hand-outs must be received by: May 30, 2001

Open poster submissions

Abstracts must be received by: May 10, 2001

H. REGISTRATION

Will open in March, 2001 Early registration deadline May 31, 2001

I. CALL FOR SPONSORSHIP

ISMB2001 welcomes sponsorship from the biotechnology, pharmaceutical, and computer and software communities. For more information about the ISMB2001 sponsorship packages, please visit:

<http://ismb01.cbs.dtu.dk/sponsor.html>

or contact Johanne Keiding to discuss the benefits of being an ISMB2001 sponsor:

ismb01sponsors@cbs.dtu.dk , Phone: +45 45 25 24 77

J. ISMB2001 ORGANIZING COMMITTEE

Søren Brunak, Center for Biological Sequence Analysis

Anders Krogh, Center for Biological Sequence Analysis

Anders Gorm Pedersen, Center for Biological Sequence Analysis

Anna Tramontano, IRBM P. Angeletti

Michael Gribskov, San Diego Super Computer Center

Gary Stormo, Washington University, St. Louis

Frederique Gallison, Institut Pasteur

Pierre Rouze, INRA, Gent

K. CONFERENCE SECRETARIES

Johanne Keiding and Janine Hatchwell, ismb01@cbs.dtu.dk

ISMB2001 is organized in association with: Center for Biological Sequence Analysis

The Danish National Research Foundation
The International Society for Computational Biology
The European Commission under the Fifth Framework Programme

- Søren Brunak, ismb 2001 chairman

Conference Contact:

Johanne Keiding Center for Biological Sequence Analysis
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E-mail: johanne@cbs.dtu.dk Building 208
WWW: www.cbs.dtu.dk DK-2800 Lyngby Denmark

Campus map: www.adm.dtu.dk/fakta/transport/kort/index_e.htm

Please take the opportunity to visit the website for ISMB2001, 9th International Conference on Intelligent Systems for Molecular Biology, Tivoli Gardens, Copenhagen, Denmark, July 21 - 25, 2001 <http://ismb01.cbs.dtu.dk>

2001 - FIRST CALL FOR POSTERS

FIRST CALL FOR POSTERS - RECOMB 2001

The Fifth Annual Conference on Research in Computational Molecular Biology (RECOMB 2001), organized by Centre de recherches mathématiques, Université de Montréal, Canada, will be held at the Wyndham Hotel, Montreal, on April 22-25, 2001 (note date change).

Invited speakers include George Church, Philip Sharp, Ruedi Aebersold, Mark Adams, Roger Brent, Franz Lang, Klaus Lindpaintner, Yvonne Martin and Mark Ptashne. Thirty-five other speakers were chosen out of 128 submitted abstracts.

POSTERS are sought reporting on original research (both theoretical and experimental) in all areas of computational molecular biology.

Typical but not exclusive topics of interest include:

- Genomics
- Molecular sequence analysis
- Recognition of genes and regulatory elements
- Molecular evolution
- Protein structure
- Gene expression
- Gene networks
- Combinatorial libraries and drug design
- Computational proteomics
- Functional genomics

ABSTRACT SUBMISSION:

Two-page poster abstracts, preferably written in LaTeX though Word or other word-processing software is acceptable, must be submitted electronically to

posters@crm.umontreal.ca

The abstracts of accepted posters will be published in book form and will be available at the meeting. Instructions, intended to ensure consistent appearance, efficient handling and timely publication, appear on the conference website

<http://recomb2001.gmd.de>

along with an abstract template. Abstracts must be received by January 22, 2001; authors will be notified about acceptance before February 5, 2001.

Authors who cannot access the instructions or comply with e-mail instructions should inquire to

posters@crm.umontreal.ca

well in advance of the deadline.

PRE-REGISTRATION

Early registration will be accepted until March 1, 2001. Instructions for electronic pre-registration can be found at the conference website.

<http://recomb2001.gmd.de>

METMBS 2001 CALL FOR PAPERS

Recent advances in computer technology have provided the tools and the environment to study, analyze, and better understand complex systems. This technological development has enabled researchers to collect and analyze massive amounts of data to a scale previously not possible. The impact of this technology is now being felt in the medical field and in the biological sciences. In recent years, research in interdisciplinary areas such as Bioinformatics and computer assisted medical decision-making has dramatically intensified. METMBS'2001 aims to provide a platform for researchers to present and discuss recent breakthroughs in this area.

The METMBS'2001 Conference will be held concurrently (i.e., same location and dates) with a number of international conferences: International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'2001), the International Conference on Imaging Science, Systems, and Technology (CISST'2001), International Conference on Internet computing (IC'2001).

For further information, contact:

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DIMACS WORKSHOP ON WHOLE GENOME COMPARISON

DIMACS Workshop on Whole Genome Comparison February 28 - March 2, 2001 DIMACS Center, Rutgers University, Piscataway, NJ

Presented under the auspices of the Special Year on Computational Molecular Biology.

The goal of the workshop is to bring biological and computational scientists together to discuss whole genome comparison at three levels:

- Whole genome sequence comparison, including the implications for identification of protein coding and regulatory regions and the origin and role of non-coding DNA.
- Whole genome map comparison, including the importance of spatial genomic organization and the role of duplications and rearrangements in genome evolution and structure.
- Functional genomic comparison: comparison of comprehensive functional data sets such as the set of orthologs, protein folds, expression patterns, pathways or protein-protein interactions found in a given organism.

Work that addresses whole genome comparison on two or more of these levels is of particular interest. The workshop will focus on research comparing the genomes of different organisms, as well as the comparison of a single genome with itself.

Limited funds are available to support student participation in the workshop. Interested students seeking financial assistance for travel and accommodations.

For complete information on registration, travel and accommodations see:

<http://dimacs.rutgers.edu/Workshops/WholeGenome>

COMPUTATIONAL MOLECULAR BIOLOGY: AN ALGORITHMIC APPROACH

In one of the first major texts in the emerging field of computational molecular biology, Pavel Pevzner covers a broad range of algorithmic and combinatorial topics and shows how they are connected to molecular biology and to biotechnology. The book has a substantial "computational biology without formulas" component that presents the biological and computational ideas in a relatively simple manner. This makes the material accessible to computer scientists without biological training, as well as to biologists with limited background in computer science.

Pavel A. Pevzner is Professor in the Departments of Mathematics, of Computer Science, and of Biological Sciences at the University of Southern California. Pevzner is also a member of the board of directors of ISCB.

For more info:

Jud Wolfskill
MIT Press
5 Cambridge Center
Fourth Floor
Cambridge, MA 02142
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FACULTY POSITION IN COMPUTER SCIENCE AT WASHINGTON UNIVERSITY

Applications are invited for tenure-track faculty positions at the Assistant, Associate and Full Professor levels. Applicants should hold a doctorate in Computer Science or a closely related field, have a record of accomplishment in research, and demonstrate a strong commitment to teaching.

The Department enjoys a great research reputation and impressive levels of research activity, e.g., annual research expenditures recently reached a record \$450,000 per faculty member. Research areas which are well represented in the Department include: networking and communications; distributed software systems; graphics and computer vision; artificial intelligence; computer and system architecture; and computational biology. Our doctoral graduates have been heading for successful careers in academia and industrial research centers while noteworthy entrepreneurial endeavors spearheaded by our faculty and graduates (with the full support of the University) attest to a highly respected technology transfer tradition and culture. Strict limits on University undergraduate enrollments combined with the increasing popularity of Washington University allows the Department to continue to offer small classes and close personal attention to a diverse student body of exceptional quality and to benefit from strong participation by undergraduates on a wide range of research projects.

Qualified applicants should send a *curriculum vitae* and the names and addresses of at least three references to:

Dr. Catalin Roman,
Chairman, Department of Computer Science,
Campus Box 1045, Washington
University, One Brookings Drive,
St. Louis, MO 63130-4899.

Applications will be considered as they are received. Those received after February 1, 2001, may not receive full consideration. Washington University is an equal opportunity/affirmative action employer.

COMPUTATIONAL BIOLOGY FACULTY POSITION AT CARNEGIE MELLON

[The Department of Biological Sciences \(http://www.bio.cmu.edu\)](http://www.bio.cmu.edu) at Carnegie Mellon University seeks an outstanding candidate for a tenure-track appointment at the intersection of computer science and the biological sciences. Successful candidates will have strong credentials in both areas, and will be prepared to take advantage of the University's world-class strength in Computer Science and the strong tradition of interdisciplinary research in the Department of Biological Sciences. Applicants pursuing purely computational or mixed experimental/computational approaches, and those with doctoral degrees in either computer science or a natural science, will be considered. An anticipated area of particular interest is prediction of protein and RNA structure and function. Appointment will be made at a level commensurate with the experience of the applicant.

Interested applicants should send *curriculum vitae*, statement of research interests, and three letters of recommendation to:

Robert F. Murphy, Ph.D.
Associate Professor of Biological Sciences
Director, Merck Computational Biology and Chemistry Program
Director, Biological Sciences Undergraduate Research Programs
Carnegie Mellon University
4400 Fifth Ave., Pittsburgh, PA 15213
email: murphy@cmu.edu

Review of applications will continue until a suitable candidate is recruited. Our department is eager to diversify its faculty: we encourage women and members of underrepresented groups to apply. Carnegie Mellon University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION AT UNIVERSITY OF SASKATCHEWAN

Applications are invited for tenure-track faculty positions at the Assistant Professor or Associate Professor level to start July 1, 2001. The Department is interested in outstanding candidates from all areas of computer science. However, preference will be given to candidates interested in areas of database systems, software engineering, bioinformatics, computer networks, hardware systems, or human-computer interaction. We are seeking motivated researchers who are interested in collaborative, applied research that cuts across traditional boundaries. A successful applicant will be expected to build and sustain a strong research program and to make a commitment to excellence in teaching at both the undergraduate and graduate levels. Applicants must have a Ph.D. in computer science or equivalent.

- The University recently received a CFI grant to establish a \$900K bioinformatics laboratory. The laboratory involves researchers from 6 different departments and two national research centers located on campus. The laboratory will start "coming on stream" in the early spring of 2001.

- NRC's Plant Biotechnology Institute and Agriculture and Agri-Food Canada's Saskatoon Research Centre (both on campus) are each establishing bioinformatics centres, and welcome collaborations with faculty from the Dept of Comp. Sci. at the UofS.

- The UofS will have Canada's only synchrotron light source. This facility is under construction, and when complete, will be a nation-wide source for X-ray crystallographic data.

- The Department and University are pursuing the introduction of an undergraduate program in bioinformatics.

If you would like more information about bioinformatics at the UofS, contact:

kusalik@cs.usask.ca

Groups (women, aboriginal people, people with disabilities, and visible minorities) are encouraged to self-identify on their applications. Special efforts will be made to assist with locating positions for spouses.

If you want to contact all of our members or if you have news or information that you want disseminated to all our members, use our society newsletter.

Send to the ISCB office (admin@iscb.org) a one or two paragraph blurb. Your society newsletter goes to all members.

We also ask that you consider a discount for ISCB members in exchange for this mailing. For example, Stanford's Bioinformatics Certificate program offered a 10% discount in a recent newsletter.

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