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### ISCB NEWSLETTER

MAY 28, 1999 - VOLUME 2 NUMBER 4

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### 1) INTENSIVE SHORT COURSE/COMPUTATIONAL MOLEC. BIOL. (NOTE DATE CHANGE)

THE COURSE DATES HAVE BEEN CHANGED from July 26-30 TO AUGUST 2-8 1999

Intensive Short Course, Computational Molecular Biology

[E72-BME537A.51]

August 2-6, 1999

Eric P. Newman Educational Center

<http://www.ibt.wustl.edu/CMB/shortcourse99.html>

#### REGISTRATION/COST

The following information is to inform you of the upcoming summer course 'Computational Molecular Biology' which will be held August 2-6, 1999 (formerly July 26-30). For those of you who have not yet registered and would like to receive the proper forms or a copy of the Summer 1999 Course Listing, please contact the Engineering Summer School at 314-935-5484 (fax: 314-935-5449; email: [conted@seas.wustl.edu](mailto:conted@seas.wustl.edu)) to request a registration and authorization to register form.

Seating is limited and we encourage you to call as soon as possible. Students may register in person at Lopata Hall, Room 303. The office is open Monday - Thursday 8:30 - 7:00 PM and Friday 8:30 - 5:00 PM. The cost is: \$1,570.00. Registration began April 1st and ends the first day of class, August 2. If you need further information you can contact the Engineering Summer School Office by telephone at 314-935-5484; fax 314-935-5449 or email: [conted@seas.wustl.edu](mailto:conted@seas.wustl.edu).

#### WEB SITE

The following text can be found at:

<http://www.ibt.wustl.edu/CMB/shortcourse99.html>

The faculty of the computational molecular biology program at Washington University in St. Louis offers this introduction to computational molecular biology as a 5 day intensive short course. The course combines an introduction to the theory and practice of molecular sequence analysis with an intensive session on programming in PERL. The course is offered at a graduate level and is intended to be accessible to professional scientists in molecular biology and biotechnology. Our aim is to provide an understanding of how and why different analytic approaches are used including their limitations as well as capabilities. We emphasize the use of public domain software tools rather than focusing on a specific commercial package. The PERL programming sessions are offered in two sections, one targeted to professional software developers and the other to scientists with a limited background in computer programming. The format is a 5-day course with 6 hours of class time each day (3 hrs. in the morning and 3 hrs in the afternoon) for a total of 30 contact hours. The course (BME-72-537A) is offered through the Washington University Summer School and carries two units of graduate credit at Washington University. It is an intensive and challenging course that covers most of the material offered in our regular graduate course on computational biology in a format that is accessible to working scientists as well as faculty and staff with interests in learning new technology.

A CD-ROM containing course lecture notes, problem sets, programming exercises, public domain software and reference material will be distributed. All students are encouraged to bring a laptop computer (Windows/Intel) for use in the programming sessions.

## LOCATION

Lectures and section meetings will be held in the Eric P. Newman Educational Center (EPNEC), 320 S. Euclid Avenue (at Children's Place) and in the 2nd floor classroom of the Institute for Biomedical Computing (IBC), Rm 2204, 700 S. Euclid Ave. (at McKinley), St. Louis, MO.

## LODGING

For those of you coming from out of town, listed below are a few hotels and one B&B that are either in walking distance; that provide shuttle services; or has adequate, quick access to public transportation.

Best Western Inn at the Park, 4630 Lindell (off Euclid Ave.), St. Louis, MO 63108, 314-367-7500; 4-6 blocks walking distance; shuttles are on request between 8 AM & 5 PM; \$71 one adult; \$81 two adults per night.

Cheshire Inn, 6300 Clayton Road (off Skinker Blvd.), St. Louis, MO 63117, 314-647-7300; shuttle service 7-11 PM, approx. 10-15 minute ride to/from EPNEC or IBC; \$65-75 one adult/night; \$89-\$99 two adults/night.

Drury Inn & Suite Union Station, 201 So. 20th Street (at Market St.), St. Louis, MO 63103, 314-231-3900; access to the MetroLink Rail System-- a 7-10 minute ride which stops at the Central West End-- one block from EPNEC or IBC; \$105.99 double; \$111.99 king. Free parking, continental breakfast. If your company is sending 10 or more you can call 1-800-444-4421 for possible group rates.

Holiday Inn Clayton, 7730 Bonhomme Ave (at Bemiston), Clayton, MO 63105, 314-863-0400 (shuttle available, 15-20 minutes from EPNEC or IBC) Rate: \$99.00 one/two adults per night.

West Pine Bed and Breakfast, Amy or Edwin Massey, 4200 West Pine (off Boyle St), St. Louis, MO 63108, 314-531-3107 [can drop visitors off, but it's only a 10-15 minute walk to the EPNEC or IBC]; \$55.00 one adult; \$65 two adults/night; Extended lodging: \$30.00 day [two week minimum stay] but does not include breakfast.

## SYLLABUS

Monday AM, David States, Introduction to probability & statistics, model based data analysis, motifs, patterns, HMMs, gene modeling and gene finding

-----PM, David States, Energetics, protein models, threading Tuesday, AM, Michael Zuker, Dynamic programming, optimal and suboptimal alignment

-----PM, Michael Zuker, RNA, RNA gene finding, single sequence folding, multiple alignment, covariance

Wednesday, AM, Warren Gish, Log odds scores, information measures, scoring entropy, Karlin Altschul statistics

-----PM, Warren Gish, BLAST and database searching, Poisson statistics, Sum statistics, gapped BLAST

Thursday, AM, Michael Zuker, Multiple sequence alignment, generalized DP, trees, clustal

-----PM, Volker Nowotny, Phylogeny and molecular evolution

Friday AM, Volker Nowotny, Physical mapping

-----PM, Volker Nowotny, Genome dynamics, repeats

## INTENDED AUDIENCE

The course is targeted to students at the level of a first or second year doctoral candidate. We assume a familiarity with molecular biology and mathematics to the level of college calculus, but do not require programming skills or higher-level computer science. The course should be accessible to scientific staff active in molecular biosciences.

For any other questions regarding the class or to receive a catalog of the Summer 1999 Course Listing, please contact the Engineering Summer School Office at (314-935-5484; fax: 314-935-5449; email: [conted@seas.wustl.edu](mailto:conted@seas.wustl.edu)).

## 2) JOB FAIR, ISMB '99

### JOB FAIR

The Seventh International Conference on Intelligent Systems for Molecular Biology (ISMB '99)

August 6-10, 1999  
Heidelberg, Germany  
<http://ismb99.gmd.de>

Sponsored by the International Society for Computational Biology (in cooperation with Dechema, the German Informatics Society (GI) and the American Association for Artificial Intelligence (AAAI)

ATTEND ONE OF THE PREMIER INTERNATIONAL MEETINGS IN BIOINFORMATICS AND ENJOY THE RARE SIGHT OF A TOTAL SOLAR ECLIPSE

On the ISMB'99 website, we post announcements of positions as well as CVs of applicants in bioinformatics.

1. If you have a position to fill and want to announce it please send your announcement to [ismb99@gmd.de](mailto:ismb99@gmd.de) in either of the following forms (arranged in order of decreasing preference):

- URL to an html document at your site
- pdf file
- postscript file

2. If you are looking for a position and do not mind having your CV posted publicly, then please send your CV to [ismb99@gmd.de](mailto:ismb99@gmd.de) in either of the three formats listed above. If you want your CV to be kept confidential, please contact any of the employers listed on this site.

The ISMB'99 organizers intend to arrange a meeting at the conference for teaming up applicants with prospective employers.

For further questions please contact [ismb99@gmd.de](mailto:ismb99@gmd.de)

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### **3) TOXICOLOGY FOR THE NEXT MILLENIUM A (NYAS) CONFERENCE**

Toxicology for the Next Millennium  
A New York Academy of Sciences (NYAS) Conference

September 20-23, 1999  
Airlie Conference Center, Warrenton, Virginia

This conference will explore the application of advances in molecular biology and other biological sciences to the field of toxicology. Application of new technologies to areas such as cancer toxicology, neurotoxicology, immunotoxicology, and developmental toxicology will also be discussed. A full day will be devoted specifically to the discussion of Advances in Genomics/Proteomics and Computer Modeling/Bioinformatics.  
Seeking abstracts for participation in Poster Sessions.

To receive further information contact:  
NYAS- Science and Technology Meetings  
2 East 63rd Street, New York, NY 10021  
T: 212.838.0230 ext. 324; F: 212.838.5640  
E: [conference@nyas.org](mailto:conference@nyas.org) W: [www.nyas.org/brochtox.htm](http://www.nyas.org/brochtox.htm)

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### **4) GERMAN CONFERENCE ON BIOINFORMATICS**

First Announcement and Call for Papers

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German Conference on Bioinformatics  
October 4-6, 1999  
Hannover, Germany

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The German Conference on Bioinformatics is an annual, international conference devoted to all topics in computational

biology.

Its tradition reaches back to 1985, and recent conferences have attracted up to 200 participants from all over the world.

For detailed information see

<http://bibiserv.techfak.uni-bielefeld.de/gcb99/> Call for Papers

Participation is invited from the international scientific community active in the development of concepts and applications in the general focus of the conference. Contributions are solicited in the form of full papers (8-12 pages) or extended abstracts (3-7 pages). Accepted contributions will be included in the conference proceedings, and will be given an oral presentation at the conference. In some cases, the presentation may include a live software demonstration.

For a selection of the extended abstracts (but not the full papers) presented at the conference, the scientific committee will invite authors to provide a full paper version for publication in a special issue of BIOINFORMATICS (formerly: CABIOS). These manuscripts will be subject to the regular BIOINFORMATICS review procedure (3 referees).

Full Papers as well as extended abstracts should be single-spaced and set in 12 point type, including title, abstract, figures, tables, and bibliography. Postal and electronic mailing addresses, telephone, and fax numbers must be included. Electronic submission is strongly encouraged; please send postscript files via e-mail to [gcb99@TechFak.Uni-Bielefeld.DE](mailto:gcb99@TechFak.Uni-Bielefeld.DE).

Key dates for full paper and extended abstract submission:

Submission deadline: June 30

Author notification: August 10

Final version due: September 10

#### Call for Posters

A poster exhibition will be arranged with the GCB99 conference. This exhibition will be accessible not only to the conference participants, but also to all visitors of the BIOTECHNICA fair. Submissions for the poster exhibition should have 1-3 pages; alternatively, if legible, a complete poster reduced to A4 or US letter format may be submitted. Postal and electronic mailing addresses, telephone, and fax numbers must be included. Electronic submission is strongly encouraged; please send postscript files via e-mail to [gcb99@TechFak.Uni-Bielefeld.DE](mailto:gcb99@TechFak.Uni-Bielefeld.DE). Alternatively, two paper copies of the submission should be sent to:

GCB '99 Program Chair

Robert Giegerich

Technische Fakultät

Universität Bielefeld

Postfach 100131

33501 Bielefeld

Germany

Key dates for poster submission:

Submission deadline: August 15

Author notification: September 1

Final version must be brought to the conference.

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## **5) QUANTITATIVE CHALLENGES IN THE POST GENOMIC SEQUENCE ERA**

JANUARY 11-15, 2000 PRELIMINARY MEETING ANNOUNCEMENT

QUANTITATIVE CHALLENGES IN THE POST GENOMIC SEQUENCE ERA:  
A WORKSHOP AND SYMPOSIUM

Sponsored by: The Burroughs Wellcome Fund

For complete details and to request future mailings connect to:

<http://ljis.ucsd.edu> DEADLINES: Contributed Talks: August 16, 1999 Posters: November 1, 1999

CONFERENCE VISION: Completion of the human genome sequencing project will mark a change in the focus of quantitative studies of genomic information from the gathering and archiving of genomic data to its analysis and use in prediction and discovery. This symposium is intended to provide an international forum for provocative discussions debating the current state-of-the-art and envisioning future directions for the application of quantitative science to sequence-to-function paradigms in biology. At the workshop, we will target the training and exposure of developing interdisciplinary scientists to the many new challenges beyond genome sequencing, and to varied approaches to pursuing scientific careers at the interfaces between the physical, chemical, and computational sciences and the biological sciences.

#### SYMPOSIUM:

1/13/00 - Folding the Genome(s)-Sequence to Structure and Beyond  
(Presenters: Eisenberg, Hendrickson, Kim, Montelione, Petsko, Sander, Wodak)

1/14/00 - Understanding the Genome Structure(s) and Their Connection to Function  
(Presenters: Eaton, Fersht, Marqusee, Moulton, Wolynes)

1/15/00 - Exploring Tomorrow's Landscape-From Atomic Details to Molecular Networks  
(Presenters: Chu, Dobson, Gray, Schulten)

#### WORKSHOP:

1/11/00 - Exploring Genomic Sequence to Function  
(Presenters: Brenner, Beese, Handel, Sali)

1/12/00 - Understanding the Fundamentals of Structure, Function, and Folding  
(Presenters: Dickson, Gruebele, Kuhn, Pande, Tobias)

#### INVITED SPEAKERS AND PARTICIPANTS:

- Lorena Beese, Department of Biochemistry, Duke University
- Steven Brenner, Department of Structural Biology, Stanford
- Steven Chu, Department of Physics, Stanford University
- Robert Dickson, School of Chem & Biochem, Georgia Institute of Technology
- Chris Dobson, Department of Chemistry, Oxford University
- William Eaton, Nat'l Institute of Diabetes & Digestive & Kidney Diseases, NIH
- David Eisenberg, Department of Chemistry, UC Los Angeles
- Alan Fersht, Department of Chemistry, Cambridge University
- Harry Gray, Department of Chemistry, California Institute of Technology
- Martin Gruebele, Department of Chemistry, Univ of IL @ Urbana-Champaign
- Tracy Handel, Department of Molecular and Cell Biology, UC-Berkeley
- Wayne Hendrickson, Dept of Biochemistry & Molecular Biophysics, Columbia
- Sung-Hou Kim, Department of Chemistry, UC-Berkeley
- Leslie Kuhn, Department of Biochemistry, Michigan State University
- Susan Marqusee, Department of Molecular and Cell Biology, UC-Berkeley
- Gaetano Montelione, Center for Advanced Biotechnology and Medicine, Rutgers
- John Moulton, Center for Advanced Research in Biotechnology, Univ of Maryland
- Vijay Pande, Department of Chemistry, Stanford University
- Gregory Petsko, Department of Biochemistry and Chemistry, Brandeis

- Andrej Sali, Laboratory of Molecular Biophysics, Rockefeller University
- Chris Sander, Whitehead Institute, MIT
- Klaus Schulten, Depts of Physics and Chemistry, Univ of IL @ Urbana-Champaign
- Douglas Tobias, Department of Chemistry, University of California, Irvine
- Shoshana Wodak, European Bioinformatics Institute and Free Univ of Brussels
- Peter Wolynes, Depts of Chem, Biophys & Phys, Univ of IL @ Urbana Champaign

LA JOLLA INTERFACES IN SCIENCE ORGANIZING COMMITTEE:

-Jos  N. Onuchic, Department of Physics, University of California, San Diego (UCSD)

-Elizabeth D. Getzoff, Department of Molecular Biology, The Scripps Research Institute

-Charles L. Brooks III, Department of Molecular Biology, The Scripps Research Institute

-Peter W. Arzberger, Center for Advanced Computational Science and Engineering, UCSD

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**6) PACIFIC SYMPOSIUM ON BIOCOMPUTING 2000**

Pacific Symposium on Biocomputing 2000

Deadline = July 12, 1999

The Call for Papers, Abstracts and Demonstrations is available at  
<http://www.cgl.ucsf.edu/psb/cfp.html>.

PSB 2000 is held January 5-9, 2000 on Oahu, Hawaii

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