



ISOBC Newsletter

March / 2009

Volume 4, Number 1

Iran Society of Biophysical Chemistry

News

➤ ***Iranian Journals Prosperities***

Journal of the Iranian Chemical Society (JICS) obtained impact factor >2 in year 2008.

Please see the web site: www.ics-ir.org/jics

➤ ***2nd Pakistan-China-Iran International Conference on (ICBBB-2009) in Iran***

the 2nd Pakistan-China-Iran International conference on Biotechnology-Bioengineering-Biophysical Chemistry and 3rd ICBMB to be held in Tehran from July 11-14, at Tehran University of Medical Sciences, Tehran, Iran.

The aim of holding this symposium is to foster the creation and dissemination of rapidly growing knowledge for better learning in Biophysical Chemistry, Biothermodynamics, Enzyme technology, Bioprocess, Bioengineering, Bioinformatics and Tissue Culture. The occasion will provide an opportunity to review the current status and future trends in the specified areas and suggest viable ways in adopting the latest developments at international and national institutions.

There will be plenary lectures and invited presentation by internationally known experts in the appropriate fields of research along with oral and poster presentation.

Please see the web site: <http://www.biochemiran.com/congress10>



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➤ *New Conferences*

7th European Biophysics Congress Genoa

EBSA 2009

11th-15th July 2009 Genoa Conference Center, Genoa, Italy



Congress dates:

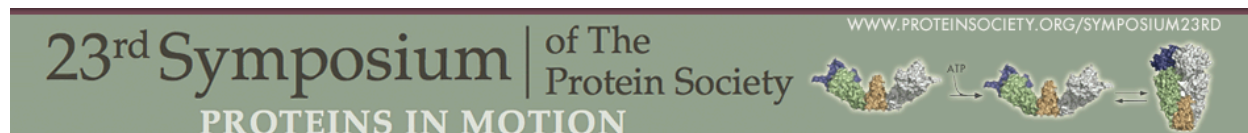
Welcome and opening Plenary
Lecture at Palazzo Ducale:
Saturday 11th July 2009

Farewell and closing Plenary
Lecture at Palazzo Ducale:
Wednesday 15th July 2009.

EBSA SIBPA
Biophysics in Europe

Please see the web site: (<http://www.ebsa2009.org>)

The Executive Committee wishes to remind you that an EBSA prize of €2,000 will be awarded at the Congress to a promising young scientist (<http://www.ebsa.org/prize.htm>).



23rd Symposium of The Protein Society
PROTEINS IN MOTION

WWW.PROTEINSOCIETY.ORG/SYMPOSIUM23RD

Abstract Submission Deadline: March 18, 2009

July 25-29, 2009 Boston, MA

- 📄 [Symposium Website](http://www.proteinsociety.org/symposium23rd) – www.proteinsociety.org/symposium23rd
- 📄 [Preliminary Program](#)
- 📄 [Sponsorship Opportunities](#)
- 📄 [Finn Wold Travel Award Program Sponsorship](#)
- 📄 [Graduate Program Fair Application](#)
- 📄 [Protein Science Young Investigator Travel Grant / Finn Wold Travel Award Application](#)
- 📄 [MARC Travel Award Application](#)



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KEYSTONE  SYMPOSIA
on Molecular and Cellular Biology

Connecting the Scientific Community through
Open, International Meetings in the Life Sciences

Last Call for Abstracts in Structural Biology

Protein Dynamics, Allostery and Function (E3)

Jun. 5-10, 2009

➤ *Conference Calender*

- [Experimental Biology 2009](#)

New Orleans, LA, USA, 18 - 22 April 2009

- [3rd EuPA Congress on Clinical Proteomics](#)

Stockholm, Sweden, 14 - 17 June, 2009

- [34th FEBS Congress](#)

Czech Republic, 4-9 July 2009

- [21st IUBMB and 12th FAOBMB International Congress of Biochemistry and Molecular Biology](#)

Shanghai, China, 2 -7 August 2009

- [50th International Conference on the Biosciences of Lipids](#)

16th Annual International Conference on Intelligent Systems for Molecular Biology

Regensburg, Germany, 1 - 5 September 2009

- [I VIII European Symposium of The Protein Society](#)

June 14-18, 2009

Kongresshaus

Zurich, Switzerland

- [The 3rd International Congress of NanoBiotechnology & Nanomedicine 2009](#)

Abstract Deadline: March 1, 2009

Deadline for Manuscript of the Proceeding: April 1, 2009

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➤ *Ahmed Zewail Prize in Molecular Sciences*

The Chief Editors of [Chemical Physics Letters](#), and Elsevier, the Publisher of the journal are delighted to announce that the second [Ahmed Zewail Prize in Molecular Sciences](#) has been awarded to **Professor Mostafa El-Sayed** from Georgia Institute of Technology, USA.

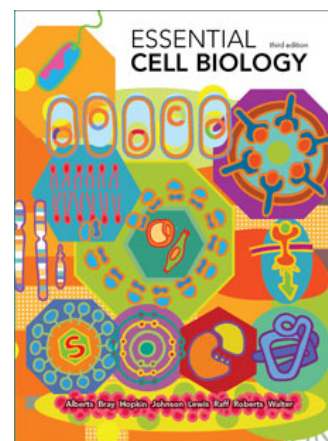
El-Sayed has been awarded the Ahmed Zewail Prize for his contributions to the understanding of the electronic and molecular dynamics and properties of systems with different length scales, ranging from molecules to nanoparticles to biomedical systems

For more information on the Ahmed Zewail Prize, visit: www.elsevier.com/ahmedzewailprize

➤ *Essential Cell Biology : Third Edition*

Bruce Alberts, Dennis Bray, Karen Hopkin, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts, Peter Walter

April 2009 /860 pages: 850 illustrations



Essential Cell Biology provides an accessible introduction to the fundamental concepts of cell biology. Its lively writing and exceptional illustrations make it the ideal textbook for a first course in cell and molecular biology. The text and figures are easy-to-follow, accurate, clear, and engaging for the introductory student. Molecular detail has been kept to a minimum in order to provide the reader with a cohesive, conceptual framework of the basic science that underlies our current understanding of biology.

➤ *In the memory of Edward J Wood*

Colleagues will be very sorry to learn of the death, on 14 December 2008, of Emeritus Professor Ed Wood, former Professor of Biochemistry.

Professor Wood came to Leeds as Lecturer in Biochemistry in 1972. He became Senior Lecturer in 1978, was made Reader in 1994, and was promoted to a Chair in Biochemistry in 1998. He served as Head of the Department of Biochemistry from 1991 to 1996.

Throughout his time at Leeds, Professor Wood maintained a flourishing research group. Initially, he concentrated on invertebrate respiratory proteins, and made important contributions to the knowledge of the structure and functions of these. Later, Professor Wood turned his attention to the proteins of human skin and their role in skin disease and wound healing. Working in close collaboration with clinical colleagues, he published extensively and acquired a national and international reputation for his contributions to biomedical knowledge in

skin biology, including his work in keratin biochemistry and specifically in the biochemistry of psoriasis. He was a founding member of the Interdisciplinary Skin Research Centre in the University.

Equally, if not more, striking were Professor Wood's contributions to the philosophy and practice of biological education. His publications, including a number of well-received text books of which he was either author or editor, his international workshops on curriculum reform and educational innovations, including e-learning, as well as his many years as Chief Editor of *Biomedical Education*, brought him a deservedly high international profile in this area. Within the University, Professor Wood chaired the committee responsible for the first phase of a major revision of the medical curriculum. In 2000, he became Director of the Learning and Teaching Support Network for Bioscience, later the Centre for Bioscience, Higher Education Academy. Professor Wood retired from his Chair in 2006.

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➤ *Interview*

Dr. Hossein Heli is a postdoctoral researcher at Institute of Biochemistry and Biophysics, University of Tehran, Tehran, Iran. He joined to Prof. Moosavi-Movahedi's research group at IBB three years ago. Here is an interview with Dr. Heli:



- Please tell us about yourself:

I was born on November, 06, 1977 in Kashan, Iran.

I got my degrees as:

B.Sc. in Applied Chemistry, K. N. Toosi University of Technology, Tehran, Iran, September, 1999,

M.Sc.: in Analytical Chemistry: Tarbiat Modarres University, Tehran, Iran, July, 2001,

Ph.D.: in Electrochemistry: K. N. Toosi University of Technology, Tehran, Iran, November, 2004.

My research activity in B.Sc. was on the ion transport across the liquid/liquid interfaces using electrochemical techniques. I focused on the electrocatalytic reactions in Ph.D. and at the same time, I involved on the electrochemistry of DNA-modified electrodes.

During the time span of my postdoctoral position, I have had some teaching experiences in undergraduate and graduate levels (such as: physical chemistry, corrosion science, electrochemical impedance spectroscopy, special topics in electrochemistry, etc). I have been co-supervisor of six M.Sc. students, advisor of three M.Sc. students and at the moment, I am the co-supervisor of two Ph.D. and two M.Sc. student theses. I have also involved on three research proposals. I have been a referee for peer-reviewed international journals such as: International Journal of Hydrogen Energy, Journal of the Iranian Chemical Society and Biosensors and Bioelectronics. Beside of all, I research.



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My research interests revolve around the major area of some dynamic interdisciplinary areas such as nanoscience and bioelectrochemistry. I apply nanostructured materials in the electrochemistry of DNA, proteins and enzymes and electroanalysis and electrochemical biosensors. I basically engaged in impedance spectroscopy, various voltammetric methods, surface scanning and scanning probe microscopies. Recently, I have synthesized and applied nanostructured materials in bioelectroanalysis and biosensor design. Along this line, I started with employment of nanotubes of carbon to the electrochemical studies and electroanalysis of drugs. At the moment, I involve on the synthesis of new-shaped nanostructured materials with different dimensions and morphologies (such as: nanoparticles, core@shell nanostructures, nanowires, nanocubes, nanodonuts, hollow nanospheres, quantum bubbles, etc) and explore the size- and shape-dependency of electrochemical kinetics and thermodynamics in the course of heterogeneous electron transport processes from/into biologically active compounds. For examples, I have found that core@shell nanoparticles of cobalt hexacyanoferrate have unique properties which represent much higher electrochemical reactivity compared to the uniform nanoparticles with the same size for some bioactive compounds. On the other hand, nanoparticles of copper have represented higher oxidative reactivity towards the amino acids, compared to the microparticle counterparts. Furthermore, for the first time, it has been distinguished the fine steps of amino acid oxidation using nanoparticles of copper. I enjoy the research on nanoworld! We live on nanoscale (S. Mann, *Angew. Chem. Int. Ed.* 47 (2008) 5306.). I have set up an advanced research line based on synthesis of nanostructured materials using biomacromolecules as biomimicking soft templates and will start the synthesis and applications of such nature-induced synthetic nanomaterials.

Up to now, I have had 32 international published papers, 9 submitted papers, one international book chapter and 35 full/abstract papers presented in national and international conferences and seminars.

- What is your view about IBB?

I have experiences in several research groups (more than eight). Although I didn't have full information on all research groups in IBB, however, I have feel the most smooth and inconvenience-free medium in the Prof. Moosavi-Movahedi's research group, compare to the other my previous experiences. This is very important for me!

- What is your any suggestion for promotion of postdoctoral position situation in the university for future?

More and more positive inducements! It will attain, if a pure scientific point of view is created in our universities with respect to the employment of young scientists.

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➤ *Best paper celebration*

At the end of each year the biophysical chemistry laboratory (BCL) holds a celebration for the best student paper that has been published throughout the year. This year the BCL published more than 50 papers in international journals. This year the student awards submitted to Mrs. Samaneh Zolghadri-Jahromi for publishing her paper entitled " Interaction between silver nanoparticle and bovine hemoglobin at different temperatures " in Journal of nanoparticle research and Miss Maryam Salami for publishing her paper entitled " Kinetic characterization of hydrolysis of camel and bovine milk proteins by pancreatic enzymes " in International Dairy Journal. In order to have a delicious celebration two very unique cakes were ordered. Special thanks to Prof Saboury and Prof Moosavi-Movahedi and all the students that make this lab such a success.

