

# Federation of European Biochemical Societies CONGRESS 2013

## “Mechanisms in Biology”

July 6–11, 2013 | Saint Petersburg, Russia

### DISTINGUISHED PLENARY SPEAKERS

**Aaron Ciechanover** (*Israel*)

**Jules Hoffmann** (*France*)

**Roger D. Kornberg** (*USA*)

**Jean-Marie Lehn** (*France*)

**Richard Roberts** (*USA*)

**Jack W. Szostak** (*USA*)

**John E. Walker** (*UK*)

**Kurt Wüthrich** (*Switzerland, USA*)

**Ada E. Yonath** (*Israel*)

### CONGRESS ORGANIZERS

**Vladimir Skulachev** (*Russia*)

*Congress President*

**Richard Roberts** (*USA*)

*Nobel Laureate Chairman, Advisory Board*

**Zhores Alferov** (*Russia*)

*Nobel Laureate Vice President, Russian Academy of Sciences*

**Alexander Gabibov** (*Russia*)

*Chairman, Organizing Committee*

**Michael Blackburn** (*UK*)

*Secretary, Advisory Board*

**Sergey Kochetkov** (*Russia*)

*Chairman, Program Committee*

### DEADLINES

Start of online registration and abstract submission .....**January 5, 2013**

Early Registration .....**April 5, 2013**

Regular Registration .....**June 1, 2013**

Abstract Submission .....**April 15, 2013**

### YOUNG SCIENTISTS FORUM DEADLINES

Start of online registration and abstract submission .....**October 1, 2012**

Registration and abstract submission deadline .....**January 15, 2013**

Announcement of YSF Fellowships Winners .....**February 28, 2013**

### MAIN TOPICS

#### Mechanisms of Genetic Control

- Organization of eukaryotic genomes
- RNA world
- Biochemistry of DNA modification and repair
- Quantitative genomics
- Nucleic acid targets and therapeutics

#### Biocatalytic Mechanisms and Protein Dynamics

- Biocatalysis: General problems
- Protein structure and folding
- Protein dynamics
- Enzymes reacting with organophosphates
- Alexander Braunstein Memorial Symposium: Enzymes, cofactors, mechanisms

#### Mechanisms of Communication and Signaling

- Ion channel signaling: From spatial structures to physiological mechanisms
- Membrane transport and secretion: From nephrons to neurons
- Biochemistry of stress response
- “Mitochondriology”: New approaches in bioenergetics
- Cell mechanisms of proteolysis

#### Molecular Mechanisms of Disease

- Biochemistry for medicine: Drug design and diagnostics
- Biochemistry of neoplastic transformations
- Mechanisms of G protein signaling
- Biochemistry of neurodegeneration
- Photoreception and biochemistry of vision

#### Biochemical Mechanisms of Immune Defense

- Stem cells: Fundamentals and applications
- Molecular basis of autoimmunity
- Immunochemistry and bioengineering
- B cells in inflammation and disease

#### General Aspects of Biochemistry

- Proteomics and peptidomics
- Metabolism of marine organisms: Structure and activities
- Signaling pathways in plants
- Glycomics: Progress and challenges
- Bioinformatics
- Systems biology
- Biogenic polyamines in cell metabolism
- Biochemistry of invertebrates
- Bioengineering: Fundamentals and application

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