



ASBMB Thematic Meeting on **DNA Replication, Recombination, Repair**

ASBMB 2012 Annual Meeting, held in conjunction with Experimental Biology 2012
April 21-25, 2012, San Diego, CA

Abstract submission deadline - November 8, 2011!

Organizers: **Peter Baumann**, HHMI, Stowers Inst. for Med. Res. and
Patrick Sung, Yale Univ. Sch. of Med.

Dear Colleague,

We welcome you to join us in San Diego, CA, next April for a series of symposia on **DNA Replication, Recombination, Repair** we've organized for the ASBMB 2012 Annual Meeting.

The three Rs – DNA replication, recombination and repair – are at the heart of proliferation, evolution and maintenance of genomes. Impairment of these processes results in genome instability and mutations that lead to cancer and other diseases. The four stimulating sessions in this year's "3 R" theme will focus on homology-directed repair of DNA damage, the interplay between replication and other fundamental cellular processes and the special challenges associated with the maintenance and protection of chromosome ends.

In addition to the 12 invited talks below, we will also select 12 short talks from the volunteered abstracts. We strongly encourage you, your postdocs, graduate students, and/or undergraduates to submit abstracts for consideration. This is also a great opportunity for young investigators to present their work and be considered for one of two Best Poster Honors, with cash awards. We will announce the winners during our Wednesday session.

A thematic reception for all attendees is also planned to further stimulate the scientific discussion and encourage networking. Scheduling of this event will be posted on the ASBMB website and in the meeting program.

Travel awards are available and we ask you to encourage your students and postdocs to apply.**

** A successfully submitted abstract submission to an ASBMB topic category (#2000-2432) is required. For a full list of application criteria, visit www.asbmb.org/meeting2012.

Important deadlines coming up this fall:

Abstract Submissions: November 8, 2011
ASBMB Travel Award Applications: November 8, 2011, 5:00 PM, EST**

For more information, including invited speaker details visit:

http://www.asbmb.org/Meetings_01/2012mtg/2012AnnIMtgProgInfo.aspx

Thank you for your time and we look forward to seeing you in San Diego!

DNA Replication, Recombination, Repair Program

Mechanism and Regulation of DNA Repair

Sunday, April 22, 2012

3:45 pm – 6:00 pm

Chair: **Patrick Sung**, Yale Univ. Sch. of Med.

Molecular Regulation of Homologous Recombination by Auxiliary Factors of Recombinases

Hiroshi Iwasaki, Tokyo Inst. of Tech.

Single Molecule Study on Mechanism of DNA Repair Proteins

Sua Myong, Univ. of Illinois

Mechanism and Regulation of DNA End Resection

Lorraine S. Symington, Columbia Univ. Col. for Physicians & Surgeons

Mechanism of DNA Replication

Monday, April 23, 2012

9:55 am – 12:10 pm

Chair: **Peter Baumann**, HHMI, Stowers Inst. for Med. Res.

Mechanism of Replication

John F.X. Diffley, Cancer Res. UK

Sister Acts- Coordination DNA Replication and Cohesion Establishment

Prasad V. Jallepalli, Memorial Sloan-Kettering Cancer Ctr.

Impediments to Replication Fork Progression

Mike E. O'Donnell, Rockefeller Univ.

Coupling of DNA Repair and Replication

Tuesday, April 24, 2012

3:45 pm – 6:00 pm

Chair: **Lorraine S. Symington**, Columbia Univ. Col. for Physicians & Surgeons

Role of the DNA Translocase FANCM During Perturbation of DNA Replication
Angelos Constantinou, Inst. of Human Genetics CNRS

Replication Fork Restart
Anthony M. Carr, Univ. of Sussex

Cellular Mechanisms of Triplet Repeat Maintenance
Catherine H. Freudenreich, Tufts Univ.

Telomeres and Telomerase

Wednesday, April 25, 2012

9:55 am – 12:10 pm

Chair: **John F.X. Diffley**, Cancer Res. UK

Telomeres and the Challenges to Chromosome Integrity
Julia P. Cooper, Cancer Res. UK

Role of Tumour Suppressor BRCA2 in Telomere Integrity
Madalena Tarsounas, Univ. of Oxford

Telomerase Regulation
Peter Baumann, HHMI, Stowers Inst. for Med. Res.
