

Gordon Research Conferences

(<http://www.grc.org>)

HOME

CONFERENCES

FOR ATTENDEES

THE GRC ORGANIZATION

MISCELLANEOUS

QUICK SEARCH

GO

[[advanced search](#)]

Home

Welcome to the Gordon Research Conferences (GRC), a non-profit organization managed by and for the benefit of the scientific community. The Gordon Research Conferences provide an international forum for the presentation and discussion of frontier research in the biological, chemical, and physical sciences, and their related technologies.

Gordon Research Conferences in 2015

GRC is organizing 177 Gordon Research Conferences and 111 Gordon Research Seminars in 2015. Meetings will be held in New England, California and Texas in the United States; and internationally in Italy, Spain and Hong Kong, China. Click the *Conferences* menu on the left for a complete list of meetings, dates and locations.

For over 75 years, GRC's high-quality, cost-effective meetings have been recognized as the world's premier scientific conferences, where leading investigators from around the globe discuss their latest work and future challenges in a uniquely informal, interactive format. **Apply** to a Gordon Research Conference or Gordon Research Seminar now and see why attendees consistently rate them "the best conference I've attended this year".

NEW Gordon Research Conferences Scheduled in 2014

GRC is excited to announce 21 new Conferences taking place for the first time in 2014. Preliminary program details are now available for all 2014 meetings. Click [here](#) for a list of the new 2014 Conferences.

Gordon Research Seminars

Inviting graduate students and post-docs to join the frontiers of science

GRC is committed to bringing young scientists together to discuss their current research and build informal networks with their peers that may lead to a lifetime of collaboration and scientific achievement. To that end, GRC, with the Kenan Institute for Engineering, Technology & Science at North Carolina State University, has established the Gordon Research Seminar (GRS) program, a series of 2-day meetings organized by graduate students and post-docs with the support of leading scientists from an associated GRC.

Young investigators are encouraged to visit the [Gordon Research Seminars](#) section of our web site. This page contains helpful information for graduate students and post-docs interested in attending a GRS or GRC.

LATEST NEWS

05/07/2014

Kenan Institute for Engineering, Technology & Science at NC State and the GRS Program

03/17/2014

The 2015 Meeting Schedule is Now Online

[more news...](#)

The Pier at Ventura
Ventura, CA

About Conferences

GRC is organizing 177 Gordon Research Conferences and 111 Gordon Research Seminars in 2015. Meetings will be held in New England, California and Texas in the United States; and internationally in Italy, Spain and Hong Kong, China.

For over 75 years, GRC's high-quality, cost-effective meetings have been recognized as the world's premier scientific conferences, where leading investigators from around the globe discuss their latest work and future challenges in a uniquely informal, interactive format.

Bioinspired Materials

June 22-27, 2014

Sunday River Resort

Newry, ME

Selected Presentations

Zhibin Guan (UC-Irvine), "Biomimetic Design of Dynamic and Self-Healing Polymers"

Kazuhiko Ishihara (University of Tokyo), "Functionalization of Extremely Biocompatible Phospholipid Polymers"

Ali Miserez (Nanyang Technological University, Singapore), "Squid Sucker Ring Teeth (SRT): A Supra-Biomolecular Network Reinforced by Nano-Confined Beta-Sheets that Are Encoded by an Ancient Gene Family"

Aaron Esser-Kahn (University of California-Irvine), "Synthetic Immunomodulatory Materials - Probing a Code Without a Key"

Meital Reches (Hebrew University of Jerusalem), "Probing the Interactions of Individual Biomolecules with Inorganic Substrates"

Rajesh Naik (Air Force Materials Lab), "Evolution and Intelligent Design of Peptide Recognition Elements"

Haeshin Lee (KAIST), "Bio-Inspired Adhesive Polymers at Interfaces in Energy Storage Devices"

Drug Carriers in Medicine & Biology

August 17-22, 2014

Waterville Valley Resort

Waterville Valley, NH

Selected Presentations

Jim Baker (University of Michigan), "Why Nanoscale Drug Carriers Matter for Medicine"

Krystof Bankiewicz (University of California, San Francisco), "Delivering Viral Vectors and Nanoparticles Across the Blood-Brain-Barrier, Translational and Clinical Experience"

Marino Zerial (Max Planck Institute of Molecular Cell Biology and Genetics), "Harnessing Endocytosis for siRNA Delivery"

Kirsten Sandvig (Oslo University Hospital), "Endocytic Mechanisms and Intracellular Transport of Drug Carriers"

Warren Chan (University of Toronto), "The Complexities of Nanoparticle Tumor Targeting"

Dane Wittrup (Massachusetts Institute of Technology), "Tumor Targeting, Theory and Experiment"

Kit Lam (University of California, Davis), "Multimodal Theranostic Nanoporphyrin for Chemo, Radio and Phototherapy"

Jesus Gonzalez (Avelas Biosciences), "In Vivo Delivery of Molecular Cargo Using Protease-Activated Peptides: Cancer Applications"

David Mooney (Harvard University), "Biomaterials as Therapeutic Cancer Vaccines"

Jeff Hubbell (University of Chicago), "Molecular Engineering for Antigen Delivery in Induction of Tolerance and Immunity"

Darrell Irvine (Massachusetts Institute of Technology), "Engineering Enhanced Vaccines and Immunotherapies with Hitchhiking Therapeutics"

Steven Schwendeman (University of Michigan), "Aqueous Microencapsulation of Large Molecules in PLGA Delivery Systems"

Karen Wooley (Texas A&M University), "Therapeutic Polymer Nanoparticles Designed for Treatment of Pulmonary and Urinary Tract Diseases"

Molly Stevens (Imperial College London), "New Biomaterials Approaches for Biosensing"

Frank Caruso (University of Melbourne), "Nanoscale Engineering of Polymer Carriers for Biological Interactions"

Julie Champion (Georgia Institute of Technology), "Therapeutic Protein Nanoparticles that Subvert Intracellular Signaling for Immunomodulation as a Treatment for IBD"

Ick Chan Kwon (Korea Institute of Science and Technology), "Role of Molecular Imaging in Designing Drug Carriers"

Michelle Bradbury (Memorial Sloan-Kettering Cancer Center), "Multimodal Silica Nanoparticles as Targeted Drug Delivery Vehicles for Cancer Therapeutics"

Muthiah Manoharan (Alnylam), "Advances in Systemic Delivery of RNAi Therapeutics"

Andrew Geall (Novartis), "Reinventing the Gene Vaccine: Non-Viral Delivery of Self-Amplifying mRNA Vaccines"

David Schaffer (University of California, Berkeley), "Molecular Engineering and Evolution of New Viruses for Therapeutic Gene Delivery"

Signal Transduction by Engineered Extracellular Matrices

July 6-11, 2014

Bentley University

Waltham, MA

Selected Presentations

Michael Sheetz (Columbia University), "Mechanosensing by Tropomyosin-Controlled Myosin Contractions"

Kristi Anseth (University of Colorado), "Advances in Dynamically Tunable Hydrogels: Cell Biology in the 4th Dimension"

Dave Odde (University of Minnesota), "Simulating Cell Adhesion and Migration Mechanics"

Jeanne Schwarzbauer (Princeton University), "Control of Tissue Development by Spatial Alignment of ECM"

Milan Mrksich (Northwestern University), "Patterned Substrates for Stem Cell Biology"

Sanjay Kumar (University of California - Berkeley), "How Cells Distribute Tensile Loads Against the Extracellular Matrix"

Craig Simmons (University of Toronto), "Regulation of Mesenchymal Progenitor Cell Fate by Matrix Mechanics in Complex Environments"

Gordana Vunjak-Novakovic (Columbia University), "Engineering Tissue Function: Stem Cells, Native Matrix and Physical Cues"

Nicola Elvassore (University of Padova), "Shaping Topological, Mechanical, and Soluble Microenvironment for Stem Cell Fate Specification"

Deok-Ho Kim (University of Washington), "Nano-Engineering of 3D Complex Tissues with Controllable Architecture and Function"

Claudia Fischbach (Cornell University), "3D Culture Platforms for Studies of Tumor-Microenvironment Interactions"

Dror Seliktar (Technion University), "Semi-Synthetic Hydrogels Designed to Guide Cell Fate and Tissue Repair"

Kevin Healy (University of California-Berkeley), "Growth Factor Sequestering Hydrogels for Stem Cell Transplantation"

Fan Yang (Stanford University), "Microribbon-Based Hydrogels as 3D Cell Niche: A Lego-Building Approach"

Ken Yamada (NIH), "Cell Migration and Signaling in 3D Environments"

Denis Wirtz (Johns Hopkins University), "Regulation of Cell Migration by Matrix

Dimension"

Bill Murphy (University of Wisconsin), "Biomaterials as the Accelerator, the Clutch, and the Brakes in Stem Cell Culture"

Jeffrey Hubbell (EPFL), "Protein Engineering Approaches to Controlling Growth Factor-ECM Interactions"

Marcy Zenobi-Wong (ETH Zurich), "Sulfated Hydrogels for Regulating the Proliferation/Differentiation Switch in Chondrocytes"

Adam Feinberg (Carnegie Mellon University), "Multi-Scale Bottom-Up Engineering of the Extracellular Matrix"

Future Meetings

Biomaterials & Tissue Engineering

July 19-24, 2015

Melia Golf Vichy Catalan Business and Convention Center

Girona, Spain

Tissue Repair & Regeneration

June 7-12, 2015

Colby-Sawyer College

New London, NH