



229TH ACS NATIONAL MEETING | SAN DIEGO, CA

FOCUS ON BIOTECHNOLOGY

Your Guide to Biotech-Related Programming at the San Diego National Meeting

For years, ACS members have been meeting to discuss the latest developments in biotech. The Society's focus on this subject spreads across many of its technical divisions, each of which reports on new biotech developments from the unique perspective of its division members.

In San Diego, eight technical divisions have combined to organize over 70 biotech-related sessions. Biotech's influence will be discussed by experts working in a wide variety of areas: metabolic engineering, stem cell culture technologies, gene expression, and hemicelluloses – to name just a few.

Here is a more comprehensive – though not exhaustive – list of biotech-related programming at the ACS San Diego meeting. To obtain additional details on any of the following sessions – such as paper titles or authors – please consult the sponsoring division's listings found in the program.

Or, search on-line by visiting <http://oasys2.confex.com/acs/229nm/techprogram>.

And remember that ACS offers biotech scientists other important sources of information, such as *Biotechnology Progress* (<http://pubs.acs.org/bp>), a co-publication of the ACS and AIChE, that has documented 20 years of progress in biotechnology.

SESSION TITLE	DIVISION	TIME	LOCATION	ROOM
SUNDAY, MARCH 13, 2005				
Polyketides: Biosynthesis, Biological Activity and Genetic Engineering	AGFD	8:10 a.m. – 11:55 a.m.	Horton Grand	Regal B
Biological and Synthetic Macromolecules for Emerging Nanotechnologies	POLY	8:30 a.m. – 12:00 p.m.	San Diego Marriott	Marriott Hall 5
Bioseparations for Primary Recovery	BIOT	9:00 a.m. – 12:00 p.m.	Convention Center	30A-B
Engineering of Natural Products in Bacterial, Yeast, Fungal, Insect, and Plant Tissue Cultures	BIOT	9:00 a.m. – 2:00 p.m.	Convention Center	30C
Protein Expression	BIOT	9:00 a.m. – 12:00 p.m.	Convention Center	31A
Synthetic Biology: Developments and Applications	BIOT	9:00 a.m. – 12:00 p.m.	Convention Center	29D
Biosynthesis, Biological Activity and Genetic Engineering	AGFD	1:00 p.m. – 4:45 p.m.	Horton Grand	Regal B
Polyketides: Biosynthesis, Biological Activity and Genetic Engineering	AGFD	1:00 p.m. – 4:45 p.m.	Horton Grand	Regal B
Applied Biocatalysis and Biotransformations	BTEC	2:00 p.m. – 4:55 p.m.	Convention Center	33C
Bioseparations for Primary Recovery	BIOT	2:00 p.m. – 5:00 p.m.	Convention Center	30A-B
Combinatorial and High-Throughput Analysis of Biological Systems	BIOT	2:00 p.m. – 5:00 p.m.	Convention Center	31A
Microbial Fermentation Process Development – Process Engineering	BIOT	2:00 p.m. – 5:00 p.m.	Convention Center	30C
Therapeutic Antibodies – Case Studies	BIOT	2:00 p.m. – 5:00 p.m.	Convention Center	29D
David Perlman Memorial Lecture	BIOT	5:30 p.m. – 6:30 p.m.	Convention Center	30A-B



SESSION TITLE	DIVISION	TIME	LOCATION	ROOM
MONDAY, MARCH 14, 2005				
Bioprocess Integration	BIOT	8:00 a.m. – 11:00 a.m.	Convention Center	30A-B
Combinatorial and High-Throughput Analysis of Biological Systems	BIOT	8:00 a.m. – 11:00 a.m.	Convention Center	31A
Frontiers in Bio-organic Chemistry and Chemical Biology	ORGN	8:00 a.m. – 11:55 a.m.	Convention Center	Ballroom 20 C-D
Metabolic Engineering	BIOT	8:00 a.m. – 11:00 a.m.	Convention Center	30C
Therapeutic Antibody – Process Development and Product Commercialization	BIOT	8:00 a.m. – 11:00 a.m.	Convention Center	29D
Biocatalysis and Biotransformations under Extreme Conditions: Biodiversity	BTEC	8:30 a.m. – 11:20 a.m.	Convention Center	33C
Biological and Synthetic Macromolecules for Emerging Nanotechnologies	POLY	8:30 a.m. – 12:00 p.m.	San Diego Marriott	Marriott Hall 5
Biological Tools in Drug Discovery: Sponsored by Bentham Science Publishers Ltd.	MEDI	9:00 a.m. – 12:00 p.m.	Convention Center	6B
Marvin J. Johnson Award	BIOT	11:30 a.m. – 12:30 p.m.	Convention Center	30A-B
Frontiers in Bio-organic Chemistry and Chemical Biology	ORGN	1:00 p.m. – 5:00 p.m.	Convention Center	Ballroom 20 C-D
Biomimetic Polymers	POLY	1:30 p.m. – 4:35 p.m.	San Diego Marriott	Manchester 1-2
Druggable Targets in Functional Lipidomics	MEDI	1:30 p.m. – 4:50 p.m.	Convention Center	6C
Gene Expression and Medicinal Chemistry: Sponsored by Elsevier	MEDI	1:30 p.m. – 4:10 p.m.	Convention Center	6B
Biocatalysis and Biotransformations under Extreme Conditions: Genomics and Genetics	BTEC	2:00 p.m. – 4:55 p.m.	Convention Center	33C
Session: Purification Processes	BIOT	2:00 p.m. – 5:00 p.m.	Convention Center	30A-B
Data Mining and Analysis of Biological Systems	BIOT	2:20 p.m. – 5:00 p.m.	Convention Center	31A
Metabolic Engineering	BIOT	2:20 p.m. – 5:00 p.m.	Convention Center	30C
Therapeutic Antibody – Process Development and Product Commercialization	BIOT	2:40 p.m. – 5:00 p.m.	Convention Center	29D
Sci-Mix	BIOT	8:00 p.m. – 10:00 p.m.	Convention Center	Sails Pavilion
TUESDAY, MARCH 15, 2005				
Purification Processes	BIOT	8:00 a.m. – 11:00 a.m.	Convention Center	30A-B
Adult Stem Cell Culture Technologies	BIOT	8:20 a.m. – 11:00 a.m.	Convention Center	29D
Biomolecule Instability	BIOT	8:20 a.m. – 11:00 a.m.	Convention Center	31A
Metabolic Engineering	BIOT	8:20 a.m. – 11:00 a.m.	Convention Center	30C
Elmer Gaden Award	BIOT	11:30 a.m. – 12:30 p.m.	Convention Center	30A-B
Nucleosides and Nucleotides	CARB	1:30 p.m. – 4:30 p.m.	San Diego Marriott	San Diego A
Genomic and Systems Approaches to Metabolic Engineering	BTEC	2:00 p.m. – 5:25 p.m.	Convention Center	33C
Purification Processes	BIOT	2:00 p.m. – 5:00 p.m.	Convention Center	30A-B
Embryonic Stem Cells and Applications	BIOT	2:20 p.m. – 5:00 p.m.	Convention Center	29D
Microbial Process Development – Applying New Tools in Process R&D	BIOT	2:20 p.m. – 5:00 p.m.	Convention Center	30C
Protein Folding and Characterization	BIOT	2:20 p.m. – 5:00 p.m.	Convention Center	31A
Biomimetic Polymers	POLY	6:00 p.m. – 8:00 p.m.	Convention Center	Sails Pavilion

Continued on next page



FOCUS ON BIOTECHNOLOGY



Continued from previous page

SESSION TITLE	DIVISION	TIME	LOCATION	ROOM
WEDNESDAY, MARCH 16, 2005				
Cell Culture Process Development – Advances in Process Engineering	BIOT	8:00 a.m. – 11:00 a.m.	Convention Center	31A
Evolutionary Approaches to Biocatalysis and Biotransformations	BTEC	8:00 a.m. – 10:55 a.m.	Convention Center	33C
Protein Misfolding and Aggregation	BIOT	8:00 a.m. – 11:00 a.m.	Convention Center	29D.
Proteins, Peptides, and Nucleotides	ORGN	8:00 a.m. – 11:00 a.m.	Convention Center	9
The Development Process for Biopharmaceuticals: FDA and Industrial Perspectives	BIOT	8:00 a.m. – 11:00 a.m.	Convention Center	30C
Scale-up and Scale-down of Downstream Unit Operations in Biotech Production	BIOT	8:20 a.m. – 11:05 a.m.	Convention Center	30A-B
Xylans, Mannans and Other Hemicelluloses; Biology, Chemistry and Technology	CELL	8:20 a.m. – 12:20 p.m.	Convention Center	32A
Francis P. Garvan and John M. Olin Medal	BIOT	11:30 a.m. – 12:30 p.m.	Convention Center	30A-B
Bionanotechnology – The Interface Between Biology and Polymer Science	PMSE	1:00 p.m. – 5:15 p.m.	San Diego Marriott	Manchester 1
Xylans, Mannans and Other Hemicelluloses; Biology, Chemistry and Technology	CELL	1:00 p.m. – 4:45 p.m.	Convention Center	32A
Biocatalysis and Biotransformations under Extreme Conditions: Enzymes and Proteins	BTEC	2:00 p.m. – 4:55 p.m.	Convention Center	33C
Scale-up and Scale-down of Downstream Unit Operations in Biotech Production	BIOT	2:00 p.m. – 5:00 p.m.	Convention Center	30A-B
Cell Culture Process Development – Molecular and Cellular Biological Issues of R&D	BIOT	2:20 p.m. – 5:00 p.m.	Convention Center	31A
Formulation and Delivery Issues for Biopharmaceuticals	BIOT	2:20 p.m. – 5:00 p.m.	Convention Center	30C
Protein Engineering	BIOT	2:20 p.m. – 5:00 p.m.	Convention Center	29D
BIOT Poster Session	BIOT	5:30 p.m. – 7:30 p.m.	Convention Center	Sails Pavilion
THURSDAY, MARCH 17, 2005				
Advanced Strategies for Bioseparations Design and Optimization	BIOT	8:00 a.m. – 11:00 a.m.	Convention Center	30A-B
Cell Culture Process Development – Molecular and Cellular Biological Issues of R&D	BIOT	8:00 a.m. – 11:00 a.m.	Convention Center	30E
Protein Engineering	BIOT	8:00 a.m. – 11:00 a.m.	Convention Center	29D
Systems Biotechnology: Developments and Applications	BIOT	8:00 a.m. – 11:00 a.m.	Convention Center	30C
Xylans, Mannans and Other Hemicelluloses; Biology, Chemistry and Technology	CELL	8:00 a.m. – 11:45 a.m.	Convention Center	31C
Environmental Biotransformations in the Genomic Age	BTEC	8:55 a.m. – 11:45 a.m.	Convention Center	33C
Toward Noninvasive Delivery and Diagnostics: Proteins, Genes and Cells	PMSE	1:00 p.m. – 5:20 p.m.	San Diego Marriott	San Diego B
Xylans, Mannans and Other Hemicelluloses; Biology, Chemistry and Technology	CELL	1:00 p.m. – 3:45 p.m.	Convention Center	31C
Environmental Biotransformations in the Genomic Age	BTEC	1:25 p.m. – 4:50 p.m.	Convention Center	33C
Bioprocess Monitoring and Control	BIOT	2:00 p.m. – 5:00 p.m.	Convention Center	30A-B
Systems Biotechnology: Developments and Applications	BIOT	2:00 p.m. – 5:00 p.m.	Convention Center	30C
Tissue Engineering/Biomaterials	BIOT	2:00 p.m. – 5:00 p.m.	Convention Center	31A