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### Note

The poster listings and poster author index are in a separate publication, the *Poster Guide*.

# MEETING AT A GLANCE

Saturday	
7:30 am	Registration Open
8:30 am	<b>Special Interest Subgroups–Morning</b> A. 4D Nucleome Organization: Unlocking the Structure-Function Relationships of Genome Organization and Nuclear Morphology B. Advanced Imaging for Quantitative Cell Biology C. Cell Biology in Adaptive Immune Response D. Cilia: Traffic, Signals, Disease E. Microtubule Motors: Emergent Phenomena and New Paradigms F. Optogenetics: From Molecular Switches to (Multi-) Cellular Circuits G. Spatial and Temporal Control of Cell Signaling H. The Cell Biology of Glycoconjugates I. The Cell Biology of Organoids J. Building a Multiscale, Multidimensional Human Cell Atlas K. When Cytoskeletal Networks Collide
9:00 am	Mentoring Keynote: Isiah M. Warner
10:30 am	- Getting into Graduate School: The Do's and the Don'ts and the What If's - Getting the Most Out of Your Thesis Committee - Navigating Your Mentoring Relationships with a MAP (Mentoring Action Plan) as a Mentee
11:45 am	Planning Your Exit from Graduate School
1:30 pm	<b>Special Interest Subgroups–Afternoon</b> L. Actin Functions across the Tree of Life M. Bottom-Up Cell Biology N. Building the Cell 2017 O. Cell Cycle Regulation of Morphogenetic Behavior P. Cell-Cell Fusion Q. Emerging Model Systems R. From Motors to Cancer: Integrating Mechanical Forces across Scales S. Sharing and Reusing Cell Image Data T. The Intersection of Lipids and Proteins in the Secretory Pathway U. Translating Cell Biology Research into Effective Immunotherapies for Cancer V. Tunneling Nanotubes: Intercellular Highways, New Frontiers for Deciphering Intercellular Communication in Disease
1:30 pm	Science Learning for All: Inclusive Teaching Strategies
2:30 pm	Hit the Ground Running: Early Success in Graduate School
3:45 pm	Judged Poster Session
6:00 pm	Fred Kavli Keynote Lecture: Cori Bargmann
Following Keynote-10:00 pm	Opening Night Reception
8:00 pm	International Research and Training Exchange Fair
8:30 pm	Ask a Scientist Bar Night

Sunday			
7:30 am	- Registration Open - Career Center Open	1:00 pm	- Minorities Affairs Committee Awards Reception (by invitation only)
8:00 am	<b>Symposium 1</b> Structure of the Cell	1:15 pm	- Meet the ASCB Committees (Public Information, Public Policy, Membership) - In-Booth Presentation ALVEOLE: Controlling the chemistry and topography of the cellular microenvironment with quantitative protein photopatterning – demo
8:15 am	<b>Exhibitor Tech Talk</b> Thermo Fisher Scientific Inc.: Essential tools for fluorescent imaging, labeling, and detection	1:30 pm	- Even-Numbered Poster Presentations - Afternoon Refreshment Break
9:00 am	- Career Coaching - NIH Grant Process Panel: Insights from the Early Career Reviewer Program	1:45 pm	Meet the Editor of <i>CBE—Life Sciences Education</i>
9:30 am	- Exhibits Open - Morning Refreshment Break - Exhibitor Tech Talk Hybrigenics Corp: Efficient selection of single-domain antibodies from a naive synthetic library using phage display and exhaustive yeast two-hybrid screening	1:50 pm	- Microsymposium 5 Cell Death, Cell Volume and Cytokinesis - Microsymposium 6 Cellular Regulation of the Cytoskeleton
9:45 am	<b>Symposium 2</b> Metabolism	2:00 pm	- Exhibitor Tech Talk Allen Institute for Cell Science: The Allen Institute for Cell Science—resources to empower your research - Exhibitor Tech Talk Thermo Fisher Scientific™ Amira Software® for Cell Biology, a new solution for interactive visualization and advanced analysis of 3D/4D image data - Careers in Industry Panel
10:00 am	- Lab Leadership – Roles, Values, and Expectations - Foundational Cell Biology Workshop: Assessment in Real-Time: It's Not All about the Final Exam - MD-PhD: Is it Right for Me?	3:00 pm	- Exhibitor Tech Talk GORYO Chemical, Inc.: Fluorescent probes for intra and extracellular biology - FRED Mock Review (by invitation only)
10:45 am	- Exhibitor Tech Talk GE Healthcare: Learn how GE's DeltaVision microscopes can help your lab secure more funding - Exhibitor Tech Talk BioLegend: Bone cell differentiation and bone cancer	3:15 pm	Keith R. Porter Lecture: Scott D. Emr
10:50 am	Communicating Science through Visual Media	4:15 pm	- Exhibitor Tech Talk Horizon Discovery: Gene edited cell models for target validation or disease modeling: the application of gene modulation and modification - ASCB-NCI Emerging Topic Symposium: Mitochondrial Crosstalk in Cancer Cell Biology - Workshop: Mass Spectrometry - Minisymposium 1 Bacterial Infection and Symbiosis - Minisymposium 2 Functions and Mechanisms of Cytoskeletal Motors - Minisymposium 3 Inside the Nucleus: Genome Organization and Gene Expression - Minisymposium 4 Multicellular Interactions: Tissue Assembly and Morphogenesis - Minisymposium 5 Organelles in Metabolism and Stress Responses - Minisymposium 6 Regulation of Cell Size, Mitosis and Meiosis - Education Minisymposium Evidence-Based Education
11:00 am	- Career Discussion and Mentoring Roundtables - E.E. Just Award Lecture: JoAnn Trejo - NIH Update: Workforce, Funding Trends, and Policy - Science Discussion Tables - First Timer? Making the Most of the Annual Meeting - Networking: The Most Effective Job Search Tool - New Opportunities for Researchers – Open Access to Transnational Research Infrastructures in Imaging, Structural Biology, and Compound Screening - Microsymposium 1 Recent Advances in the Molecular Cell Biology of Neurons - Microsymposium 2 Cytoskeletal Molecular Dynamics	5:30 pm	Exhibitor Tech Talk PerkinElmer, Inc.: Simple cell-based TR-FRET assays for protein phosphorylation, cell signaling, and biomarker detection
12:00 pm	- Odd-Numbered Poster Presentations - Showing of HHMI Films - Exhibitor Tech Talk Carl Zeiss Microcopy, LLC: Robust label free cell proliferation measurement with CellDiscoverer 7 and machine learning based image processing - Exhibitor Tech Talk Bruker Corporation: Harnessing the power of super-resolution single molecule localization microscopy with the Vutara 352: labeling and imaging - Navigating the Faculty Job Search	9:15 pm	Satellite Event: Breakthrough Prize Live Streaming
12:25 pm	- Microsymposium 3 Cell Biology of the Nucleus - Microsymposium 4 Cancer Cell Biology		
1:00 pm	- Careers in Science Writing, Editing, and Communication Panel - Exhibitor Tech Talk Carl Zeiss Microcopy, LLC: Investigation of live cell dynamics with the Airyscan imaging technology - Exhibitor Tech Talk Andor Technology: 3D and 4D microscopy image analysis in cell biology—Imaris technology for analysis of large, complex datasets and visualization of multimodal images (e.g. fluorescence, EM, transmitted light)		

## MEETING AT A GLANCE

Monday			
7:30 am	<ul style="list-style-type: none"> <li>- Registration Open</li> <li>- Career Center Open</li> </ul>	1:00 pm	<ul style="list-style-type: none"> <li>- Exhibitor Tech Talk</li> <li>MilliporeSigma: Winning westerns: proven strategies to optimize your western blots</li> </ul>
8:00 am	<ul style="list-style-type: none"> <li>Symposium 3</li> <li>Cell Biology of Neurons</li> </ul>	1:15 pm	<ul style="list-style-type: none"> <li>Meet the ASCB Committees (International and Minorities Affairs)</li> </ul>
8:15 am	<ul style="list-style-type: none"> <li>- Exhibitor Tech Talk</li> <li>Leica Microsystems Inc.: Visualizing the complexity of life with advanced imaging techniques</li> <li>- Exhibitor Tech Talk</li> <li>Infinitesimal LLC: A new paradigm in single-cell transfection and gene editing</li> </ul>	1:30 pm	<ul style="list-style-type: none"> <li>- Even-Numbered Poster Presentations</li> <li>- Afternoon Refreshment Break</li> </ul>
8:30 am	<ul style="list-style-type: none"> <li>Exhibitor Tech Talk</li> <li>Lipotype GmbH: Lipotype Shotgun Lipidomics technology for comprehensive, high-throughput lipid analysis</li> </ul>	1:45 pm	<ul style="list-style-type: none"> <li>Meet the Editor of <i>Molecular Biology of the Cell</i></li> </ul>
8:45 am	<ul style="list-style-type: none"> <li>Exhibitor Tech Talk</li> <li>MiniPCR: Genes in space and on Earth too: DNA technology for all</li> </ul>	1:50 pm	<ul style="list-style-type: none"> <li>- Microsymposium 11</li> <li>Cell Migration, Stem Cells, and Disease</li> <li>- Microsymposium 12</li> <li>Mechanoregulation and Translational Studies of the Cytoskeleton</li> </ul>
9:00 am	<ul style="list-style-type: none"> <li>- Exhibitor Tech Talk</li> <li>NanoSurface Biomedical: NanoSurface: Biomimetic cell culture platforms for enhancing cell biology studies</li> <li>- Career Coaching</li> <li>- Navigating Publishing in Scientific Journals</li> </ul>	2:00 pm	<ul style="list-style-type: none"> <li>- ASCB Member Forum/Business Meeting</li> <li>- Exhibitor Tech Talk</li> <li>Cellecta, Inc.: Targeted RNA expression profiling for biomarker discovery in complex samples</li> <li>- Exhibitor Tech Talk</li> <li>Andor Technology: Practical reasons to consider Dragonfly as your next confocal solution</li> </ul>
9:30 am	<ul style="list-style-type: none"> <li>- Exhibits Open</li> <li>- Exhibitor Tech Talk</li> <li>MilliporeSigma: New advances in microfluidic control of cellular microenvironment with uninterrupted imaging allows for highly controllable, long-term, more in vivo-like cell culture studies</li> <li>- Morning Refreshment Break</li> </ul>	3:00 pm	<ul style="list-style-type: none"> <li>- ASCB MAC Linkage Fellows Meeting (by invitation only)</li> <li>- Exhibitor Tech Talk</li> <li>Berkeley Lights: Smaller is better: isolating and assaying single cells in a nanofluidic chip</li> <li>- Exhibitor Tech Talk</li> <li>NemaMetrix Inc.: Functional analysis of disease genes in in vivo systems</li> </ul>
9:45 am	<ul style="list-style-type: none"> <li>Symposium 4</li> <li>Cell Interactions</li> </ul>	3:15 pm	<ul style="list-style-type: none"> <li>EMBO Gold Medal Ceremony and Lecture: Maya Schuldiner</li> </ul>
10:00 am	<ul style="list-style-type: none"> <li>- Science Communication Workshop Using Improvisation</li> <li>- Lab Leadership – Communication and Feedback</li> <li>- Green Cards for Scientific Researchers: How to Win Your EB-1/NIW Case</li> </ul>	4:15 pm	<ul style="list-style-type: none"> <li>- Exhibitor Tech Talk</li> <li>Nanolive SA: A marker-free technology to analyze living cell's internal structure and organelles in 3D, at high temporal and spatial resolution</li> <li>- Workshop: CRISPR</li> <li>- Minisymposium 7</li> <li>Actin Dynamics and Function</li> <li>- Minisymposium 8</li> <li>Cancer Cell Signaling, Adaptive Responses, and Metastasis</li> <li>- Minisymposium 9</li> <li>Ensuring Fidelity of Chromosome Segregation</li> <li>- Minisymposium 10</li> <li>Lipids in Signaling and Membrane Organization</li> <li>- Minisymposium 11</li> <li>Multicellular Interactions: Tissue Regeneration and Mechanisms of Disease</li> <li>- Minisymposium 12</li> <li>Protein Folding, Misfolding and Neurodegeneration</li> <li>- Minisymposium 13</li> <li>Subcellular Organization of Neural Cells</li> </ul>
10:30 am	<ul style="list-style-type: none"> <li>Advocacy Toolbox: The Two-Minute Speech</li> </ul>	5:00 pm	<ul style="list-style-type: none"> <li>Elevator Speech Videotaping</li> </ul>
10:45 am	<ul style="list-style-type: none"> <li>- The Road toward Open Science</li> <li>- Exhibitor Tech Talk</li> <li>Photometrics: Maximizing sensitivity and signal to noise in scientific imaging</li> </ul>	5:30 pm	<ul style="list-style-type: none"> <li>Exhibitor Tech Talk</li> <li>Oxford Nanoimaging Ltd.: The Nanoimager: a desktop super-resolution microscope with d-STORM/PALM and SIM functionality</li> </ul>
11:00 am	<ul style="list-style-type: none"> <li>- Bruce Alberts Award for Excellence in Science Education: Kimberly Tanner</li> <li>- Meeting NIH's Rigor &amp; Reproducibility Training Requirement for Key Biological Resources with Cell Authentication Training</li> <li>- Career Discussion and Mentoring Roundtables</li> <li>- LGBTQ+ Diversity Session</li> <li>- Microsymposium 7</li> <li>Spindle Architecture, SAC, and Meiosis</li> <li>- Microsymposium 8</li> <li>Cytoskeleton and Motility</li> </ul>	7:00 pm	<ul style="list-style-type: none"> <li>Resilience in Science: A Panel and Networking Reception</li> </ul>
12:00 pm	<ul style="list-style-type: none"> <li>- Odd-Numbered Poster Presentations</li> <li>- Showing of HHMI Films</li> <li>- Starting Your Lab at an R1 Institute</li> <li>- Exhibitor Tech Talk</li> <li>Wiley: Want people to read your paper? Optimize your chances with the Wiley Researcher Academy</li> <li>- Exhibitor Tech Talk</li> <li>SVI Huygens Software: Restoring light-microscopy images with the SVI-Huygens deconvolution software</li> </ul>		
12:25 pm	<ul style="list-style-type: none"> <li>- Microsymposium 9</li> <li>Organelle Structure and Dynamics</li> <li>- Microsymposium 10</li> <li>Cell Adhesion and Motility</li> </ul>		
1:00 pm	<ul style="list-style-type: none"> <li>- Careers in Entrepreneurship/Consulting Panel</li> <li>- In-Booth Presentation</li> <li>ALVEOLE: Controlling the chemistry and topography of the cellular microenvironment with quantitative protein photopatterning – demo</li> <li>- Exhibitor Tech Talk</li> <li>Nikon Instruments Inc.: Regulation of microtubule-based motility</li> </ul>		

## Upcoming Meetings

2018  
San Diego, CA  
December 8–12

2019  
Washington, DC  
December 7–11

2020  
Philadelphia, PA  
December 5–9

### Important Numbers

**Attendee/ Membership Services**  
215-418-2052

**ASCB Meeting Management**  
215-418-2050

**ASCB Exhibit Management**  
215-418-2053

**Lost & Found**  
215-418-2050

**First Aid**  
House Phone ext. 4911

**In an emergency use the nearest house phone and dial x4911.**

**From an outside line or mobile phone, call 215-418-4911.**

**Do NOT call 911 directly.**

# MEETING AT A GLANCE

Tuesday			
7:30 am	- Registration Open - Career Center Open	12:25 pm	- Microsymposium 15 Chromosome Structure, Centromeres, and Kinetochores - Microsymposium 16 Novel Approaches in Studying the Cytoskeleton
8:00 am	Symposium 5 DNA/RNA Biology		
8:15 am	- Exhibitor Tech Talk Leica Microsystems Inc.: Multimodal imaging: the next evolution in advanced live cell research - Exhibitor Tech Talk Ananda Devices: The future of cell culture models: how microfluidic platforms can increase reproducibility and efficiency of cellular assays	1:00 pm	- Celland Video Premiere and Elevator Speech Awards - Exhibitor Tech Talk Thermo Fisher Scientific Inc.: New tools for CRISPR gene-editing in cell models and primary blood cells - Exhibitor Tech Talk Bruker Corporation: Bruker LUXENDO light-sheet microscopes: pure live imaging across scales
8:30 am	Exhibitor Tech Talk AS ONE International, Inc.: AS ONE International, Inc.	1:15 pm	Meet the ASCB Committees (Education, Women in Cell Biology, COMPASS)
8:45 am	Exhibitor Tech Talk Aurox Ltd.: Aurox Clarity LFC: your personal laser free confocal	1:30 pm	- Even-Numbered Poster Presentations - Afternoon Refreshment Break
9:00 am	- Career Coaching - How to Deliver an Effective Chalk Talk	1:40 pm	- In-Booth Presentation ALVEOLE: Controlling the chemistry and topography of the cellular microenvironment with quantitative protein photopatterning – demo
9:15 am	Exhibitor Tech Talk Nanolive SA: A marker-free technology to analyze living cell's internal structure and organelles in 3d, at high temporal and spatial resolution	1:50 pm	- Microsymposium 17 Membrane Dynamics and Trafficking - Microsymposium 18 Bioengineering and Signaling
9:30 am	- Exhibits Open - Exhibitor Tech Talk TESCAN USA, INC.: QPI as a tool for a label-free viability assay with cell death classification - Morning Refreshment Break	2:00 pm	- Exhibitor Tech Talk BD Biosciences: New generation dyes as powerful tools to visualize cell biology in vivo - Careers in Science Policy
9:45 am	Louis-Jeanet Prize Lectures: Silvia Arber and Caetano Reis e Sousa	3:00 pm	- ASCB MAC Visiting Professors Meeting (by invitation only) - Exhibitor Tech Talk Bio-Rad Laboratories: Decoding quantitative western blotting
10:00 am	- Lab Leadership – Teamwork and Conflict in the Lab - Successful Commercialization of University Inventions and Discoveries	3:15 pm	- E.B. Wilson Medal Presentation and Address: F. Ulrich Hartl and Arthur L. Horwich
10:30 am	Politicians Don't Bite	4:40 pm	- Workshop: Probing Spatiotemporal Limits - Minisymposium 14 Autophagy - Minisymposium 15 Axonal and Synaptic Cell Biology - Minisymposium 16 Mechanical Coupling from Nucleus to Extracellular Matrix - Minisymposium 17 Mechanics of Cell Division and Cytokinesis - Minisymposium 18 Molecular Mechanisms of Cell-Cell Signaling - Minisymposium 19 Organelle Morphogenesis, Targeting, and Distribution - Minisymposium 20 RNA Biology
10:45 am	- Exhibitor Tech Talk Semrock (a Division of IDEX Health & Science): Striving to meet the new challenges in fluorescence microscopy - WICB Awards and Mentoring Theater: Harvey Lodish, Karen Oegema, and Julie Canman		
11:00 am	- Microsymposium 13 Tissue Structure and Cell-Cell Interactions - Microsymposium 14 Cell Metabolism - Preparing Grant Budgets - Researcher and Institutional Roles in Ensuring Reliable Research - Resources to Address Challenges for International Graduate Students and Postdocs - Science Discussion Tables - What's New in Peer Review (of Grant Applications)?	7:30 pm	Satellite Event: Panel Discussion on Neurodegenerative Diseases
12:00 pm	- Odd-Numbered Poster Presentations - Showing of HHMI Films - Exhibitor Tech Talk MilliporeSigma: Quantifying cell biology through high-speed single-cell imaging and analysis - Exhibitor Tech Talk ACEA Biosciences, Inc.: Development of diverse cancer immunotherapeutics using real-time impedance-based potency assays - Starting Your Lab at a Primarily Undergraduate Institution		

**Note:**  
The Exhibit Hall has been renamed the **Learning Center**

Wednesday	
7:30 am	Registration Open
8:30 am	- Minisymposium 21 Border Dynamics: Nuclear Envelope Organization and Remodeling - Minisymposium 22 Cellular Metabolism - Minisymposium 23 The Life of a Microtubule: Birth, Dynamics and Function - Minisymposium 24 Membrane Shaping by Fusion and Fission - Minisymposium 25 Visualization of Compartmentalized Signaling in Cancer - Special Interest Subgroups W. Neurite Formation: From Neurite Initiation to Outgrowth X. Neuronal Cytoskeleton: A Complex Interplay of Cytoarchitecture and Dynamics
11:20 am	Symposium 6 Quality Control
12:20 pm	Meeting Ends

**ASCB | EMBO**  
**2018 meeting**  
 San Diego, CA - December 8-12

See you next  
 year in  
 San Diego,  
 Dec. 8-12!

## CAREER ENHANCEMENT PROGRAMS AT A GLANCE

Saturday	
9:00-10:15 am	Mentoring Keynote: Isiah M. Warner
10:30-11:30 am	Getting into Graduate School: The Do's and the Don'ts and the What If's
10:30-11:30 pm	Getting the Most Out of Your Thesis Committee
10:30-12:30 pm	Navigating Your Mentoring Relationships with a MAP (Mentoring Action Plan) as a Mentee
11:45-12:45 pm	Planning Your Exit from Graduate School
1:30-3:30 pm	Science Learning for All: Inclusive Teaching Strategies
2:30-3:30 pm	Hit the Ground Running: Early Success in Graduate School
3:45-5:45 pm	Judged Poster Session
8:00-9:00 pm	International Research and Training Exchange Fair
8:30 pm	Ask a Scientist Bar Night

Sunday	
7:30 am-8:00 pm	Career Center Open
9:00 am-4:00 pm	Career Coaching
10:00 am-12:00 pm	Lab Leadership – Roles, Values, and Expectations
10:00 am-12:00 pm	Foundational Cell Biology Workshop Assessment in Real-Time: It's Not All about the Final Exam
10:00-10:45 am	MD-PhD: Is It Right for Me?
10:50 am-12:00 pm	Communicating Science through Visual Media
11:00 am-12:00 pm	New Opportunities for Researchers—Open Access to Transnational Research Infrastructures
11:00 am-12:00 pm	Career Discussion and Mentoring Roundtables
11:00 am-12:00 pm	NIH Update: Workforce, Funding Trends, and Policy
11:00 am-12:00 pm	First Timer? Making the Most of the Annual Meeting
11:00 am-12:00 pm	Networking: The Most Effective Job Search Tool
12:00-12:45 pm	Navigating the Faculty Job Search
1:00-1:45 pm	Careers in Science Writing, Editing, and Communication Panel
2:00-2:45 pm	Careers in Industry Panel

Monday	
7:30 am-8:00 pm	Career Center Open
9:00 am-4:00 pm	Career Coaching
9:00-9:45 am	Navigating Publishing in Scientific Journals
10:00-11:00 am	Science Communication Workshop Using Improvisation
10:00 am-12:00 pm	Lab Leadership – Communication and Feedback

Monday	
10:00-10:45 am	Green Cards for Scientific Researchers: How to Win Your EB-1/NIW Case
10:30 am-12:00 pm	Advocacy Toolbox: The Two-Minute Speech
11:00 am-12:00 pm	Career Discussion and Mentoring Roundtables
11:00 am-12:00 pm	Meeting NIH's Rigor & Reproducibility Training Requirement for Key Biological Resources
12:00-12:45 pm	Starting Your Lab at an R1 Institute
1:00-1:45 pm	Careers in Entrepreneurship/Consulting Panel
7:00-8:30 pm	Resilience in Science: A Panel and Networking Reception

Tuesday	
7:30 am-8:00 pm	Career Center Open
9:00 am-4:00 pm	Career Coaching
9:00-9:45 am	How to Deliver an Effective Chalk Talk
10:00 am-12:00 pm	Lab Leadership – Teamwork and Conflict in the Lab
10:00-10:45 am	Successful Commercialization of University Inventions and Discoveries
10:30 am-12:00 pm	Politicians Don't Bite
10:45 am-12:00 pm	WICB Awards and Mentoring Theater
11:00 am-12:00 pm	Preparing Grant Budgets
11:00 am-12:00 pm	Researcher and Institutional Roles in Ensuring Reliable Research
11:00 am-12:00 pm	Resources to Address Challenges for International Graduate Students and Postdocs
11:00 am-12:00 pm	What's New in Peer Review (of Grant Applications)?
12:00-12:45 pm	Starting Your Lab at a Primarily Undergraduate Institution
2:00-2:45 pm	Careers in Science Policy

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Share your experience  
at this year's annual  
meeting.

**#ASCBEMBO17**



# Job Hunting? Hiring?



ASCB Members get  
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