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| **Monday, June 4** | | | | | |
| 08:00 | | ***Registration & Welcome Coffee*** *(CNSI Lobby)* | | | |
| 09:00 | | **A. Hoffmann /R. Eils** | Opening and welcome remarks | | |
|  | | **Session 1 Chair: Matteo Pellegrini** | | | |
| 09:10 | | **Garry Nolan**  *Stanford, USA* | *TBA* | | |
| 09:50 | | **Vanessa Jonsson**  *City of Hope, Duarte, USA* | In Silico Adaptive Trial Design: Assessment of CART Combination Dosing Strategies for Solid Tumors | | |
| 12:20 | | **Jason E. Shoemaker**  *Pittsburgh, USA* | Immunodynamics During Deadly Influenza Virus Infection | | |
| 10:30 | | ***Break (CNSI Lobby)*** | | | |
|  | | **Session 2 Chair:** | | | |
| 10:50 | | **Thomas Hofer**  *BioQuant, Heidelberg* | | *TBA* | |
| 11.30 | | **Caroline Zitzmann**  *DKFZ, Heidelberg, Germany* | | Mathematical Modeling of the Intracellular Dengue Virus Replication and the Innate Immune Response | |
| 11:50 | | **Anna Kicheva**  *IST, Vienna, Austria* | | Coordination of Progenitor Specification and Growth in the Developing Spinal Cord | |
| 12:30 | | ***Lunch*** | | CNSI, Rooftop (5th floor) | |
|  | | **Session 3** | | Chair: Alexander Hoffmann | |
| 13.45 | | **Eleazar Eskin** | | *TBA* | *QCB @ UCLA Session* |
| 14:05 | | **Leonid Kruglyak** | | *TBA* |
| 14:25 | | **Sri Kosuri** | | The Impact of Rare Genetic Variation on Pre-mRNA Splicing |
| 14:45 | | **Grace Xiao** | | Global Studies of RNA Editing in Health and Disease |
| 15:05 | | **Roy Wollman** | | Cell State Variability in Calcium Signaling |
| 15:25 | | **Xia Yang** | | Multi-tissue, Multi-omics Modeling of Complex Human Diseases |
| 15:45 | | ***Coffee break*** | | | |
|  | | **Session 4 Chair:** | | | |
| 16:20 | | **Roland Eils**  *BioQuant & BIH Berlin* | *TBA* | | |
| 17:00 | | **Ariel Bensimon**  *Heidelberg, Germany* | Exploring Cellular Phosphorylation Network Responses to DNA Damage Using Targeted Mass Spectrometry | | |
| 17:20 | | **George T. Chen**  *UC Irvine, USA* | Linking Wnt to Patterns of Metabolism in Colon Cancer Using Math Models and Single Cell Sequencing | | |
| 17:40 | | **Nikolas Balanis**  *Los Angeles, USA* | Convergent Pan-Cancer De-differentiation to Small Cell Phenotype | | *Lightening Talks* |
|  | | **Aiman Elragig**  *Benghazi, Libya* | On the Mathematica Modeling of Plaque Psoriasis | |
|  | | **Mohit K. Jolly**  *Houston, USA* | Quantifying Epithelial-Mesenchymal Plasticity during Cancer metastasis | |
|  | | **Linda Krause**  *Münich, Germany* | Predicting Disease Courses in Children with Atopic Eczema | |
|  | | **Adam Lewis**  *Seattle, USA* | Modeling Susceptibility to Infection Using Single Cell Data of Ephrin Receptors | |  |
| 17:50 | | **Reception** | **Poster Session 1** | | |
| **Tuesday, June 5** | | | | | |
|  | | **Session 5 Chair: Aaron Meyer** | | | |
| 09:00 | | **Michael Elowitz**  *Pasadena, USA* | Communication and Computation in Mammalian Cells | | |
| 09:40 | | **Hui Xiao Chao**  *Chapel Hill, USA* | Evidence that the Human Cell Cycle is a Series of Uncoupled, Memoryless Phases | | |
| 10:00 | | **Silvia Santos**  *London, England* | Decoding Cellular Signals: Commitment During hES Cells Differentiation | | |
| 10:40 | | ***Coffee break*** | | | |
|  | | **Session 6** | Chair | | |
| 11:00 | | **Ursula Klingmuller**  *Heidelberg, Germany* | Multilevel Regulation of TGFβ Signal Transduction | | |
| 11:40 | | **Carlos Lopez**  *Nashville, USA* | Calibration of Mechanistic Apoptosis Models to Single Cell Data Using PySB | | |
| 12:00 | | **James Lu**  *Houston, USA* | Modeling Synergy between Idasanutlin and Venetoclax in an AML Cell Line | |  |
|  | | **Darius Schweinoch**  *Heidelberg, Germany* | Temporal Control of the RiG-I-Dependent Antiviral Innate Immune Response | |
|  | | **Shyr-Shea Chang**  *Los Angeles, USA* | Physical Principles for Capillary Network Formation | |
|  | | **Kartik Subramanian**  *San Francisco, USA* | Predicting Drivers of Drug Response from Omics Data Across Breast Cancers | |
|  | | **Gajendra Suryawanshi**  *Los Angeles, USA* | QVISA: Quantitative Vector Integration Site Analysis for In Vitro Clonal Tracking | |
|  | | **Mattia Zampieri**  *Zurich, Swizerland* | Mapping Transcription Factor- Metabolite Associations in Cancer Cells | |
| 12:30 | | ***Lunch (Extended)*** | **Poster Session 2** | | |
|  | | **Session 7** | Chair: Peipei Ping | | |
| 14:45 | | **Andreas Raue**  *Boston, USA* | Predicting Ligand-dependent Tumors from Multi-dimensional Signaling and Gene Expression Features | | |
| 15:25 | | **Karine Le Roch**  *Riverside, USA* | Changes in Genome Organization of Parasite | | |
| 15:45 | | **Bernhard Palsson**  *San Diego, USA* | Pasteur21: A Global System Biology Platform | | |
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| 16:30 | | **Carpool to Annenberg Community Beach House** | | | |
| 17:30 | | **Activities/Cocktails** | | | |
| 19:45 | | **Conference Dinner** | | | |
| **Wednesday June 6** | | | | | |
|  | **Session 8 Chair: Hilary Coller** | | | | |
| 09:00 | **Arthur Lander**  *UC Irvine, USA* | | *TBA* | | |
| 09:40 | **Kakajan Komurov**  *Cincinnati, USA* | | Integrated Modeling and Targeting of Oncogenic Liabilities in Cancers | | |
| 10:00 | **Vito Quaranta**  *Nashville, USA* | | Systems Biology of Small Cell Lung Cancer: Treatment Evasion by Phenotypic Transitions | | |
| 10:40 | ***Coffee break*** | | | | |
|  | **Award Lectures Chair: Roland Eils & Alexander Hoffmann** | | | | |
| 11:00 | **Pavak Shah**  *MSKCC, New York, USA* | | **Anne Heidenthal Prize for Fluorescence Research, 2018**  *sponsored by Chroma Technology Corp.*  *ShootingStar: Imaging Technologies for Single Cell Analysis in vivo* | | |
| 11:45 | **Frank Alber**  *USC, Los Angeles, USA* | | **CSB Prize in Computational Systems Biology, 2018**  *sponsored by Merrimack Pharmaceuticals*  *Mapping the Spatial Organization of Genomes and Cells through Data Integration* | | |
| 12:30 | ***Lunch*** | | | | |
|  | **Session 9 Chair: Jasmine Zhou** | | | | |
| 13:45 | **Irina Lehmann**  *BIH Berlin, Germany* | | *TBA* | | |
| 14:25 | **David Van Valen**  *Caltech Pasadena, USA* | | Deep Learning for Single-Cell Biology | | |
| 14:45 | **Avi Ma’ayan**  *Mt Sinai, New York, USA* | | The Art of Connectivity Mapping | | |
| 15:25 | Closing Remarks: Hoffmann/Eils | | | | |