Scientific Program

Sunday, December 3, 2017

6:00 pm – 8:15 pm  Keynote Session
Charlestonian Ballroom

6:00 – 6:15 pm Welcome Remarks
Sandra Weller

6:15 – 7:15 pm KS:1
Disordered Viral Proteins: Interaction Champions
Jane Dyson; Scripps Research Institute, La Jolla, CA

7:15 – 8:15 pm KS:2
Using Systems Approaches to Study the Host-Pathogen Interface
Nevan Krogan; University of California, San Francisco, CA

8:15 pm – 9:30 pm Opening Reception
Palmetto Courtyard

Monday, December 4, 2017

8:30 am – 12:00 pm Session 1: Viral Entry & Interactions with Nuclear Architecture
Charlestonian Ballroom

8:30 – 9:00 am S1:1
The Nuclear Landscape of HIV-1 Integration and Transcription
Marina Lusic; University Hospital Heidelberg, Heidelberg, GERMANY

9:00 – 9:30 am S1:2
Temporal and Spatial Regulation of Host Immunity to HSV-1 Infection
Chris Boutell; MRC-University of Glasgow Centre for Virus Research, Glasgow, UNITED KINGDOM

9:30 – 10:00 am S1:3
The Great Nuclear Escape: Mechanism of Membrane Budding During Nuclear Escape of Herpesviruses
Katya Heldwein; Tufts University, Boston, MA
10:00 – 10:30 am  Coffee Break

10:30 – 10:45 am  S1:4
HPV Utilizes PML Nuclear Bodies to Establish Infection in Host Cell Nucleus  
Lucile Guion; Louisiana State University Health Sciences Center, Shreveport, LA

10:45 – 11:00 am  S1:5
Papillomavirus Subversion of cGAS/STING Sensing via Unique Mitosis-dependent Subcellular Trafficking of Viral Genome  
Samuel Campos; University of Arizona, Tucson, AZ

11:00 – 11:15 am  S1:6
The Parvovirus MVM Establishes its Replication Centers at Regions of Cellular DNA Damage  
Kinjal Majumder; University of Missouri School of Medicine, Columbia, MO

11:15 – 11:30 am  S1:7
From Entry to Egress: Tracking the Fate of Input Herpesviral Genomes Throughout Infection  
Jill Dembowski; University of Pittsburgh School of Medicine, Pittsburgh, PA

11:30 – 11:45 am  S1:8
Remodeling of the Inner Nuclear Membrane During Herpes Simplex Virus Infection  
Bruce Banfield; Queen’s University, Kingston, ON, CANADA

12:00 pm – 1:30 pm  Lunch  
Stono Ballroom

1:30 pm – 5:00 pm  Session 2: Viral Exploitation of Host Pathways  
Charlestonian Ballroom

1:30 – 2:00 pm  S2:1
Spatiotemporal Dynamics of Initiating Events in HSV Genome Presentation and Protein Translation During Infection  
Peter O’Hare; Imperial College, London, UNITED KINGDOM
2:00 – 2:30 pm  S2:2  
BK Polyomavirus Activates the DNA Damage Response to Prevent Mitosis Dependent DNA damage  
**Sunnie Thompson; University of Alabama at Birmingham, Birmingham, AL**

2:30 – 3:00 pm  S2:3  
Noncoding RNA, A Host Triphosphatase, and Antiviral Defense  
**Chris Sullivan; The University of Texas at Austin, Austin, TX**

3:00 – 3:30 pm  Coffee Break

3:30 – 3:45 pm  S2:4  
A TGF-beta Response to Vaccinia Virus Infection  
**Timothy Newsome; The University of Sydney, Sydney, AUSTRALIA**

3:45 – 4:00 pm  S2:5  
Characterization of a Novel Epstein-Barr Virus Protein That is Expressed in Gastric Carcinoma and Inhibits the DNA Damage Response  
**Lori Frappier; University of Toronto, Toronto, ON, CANADA**

4:00 – 4:15 pm  S2:6  
Consequences of the Ad E4orf4 Protein - DNA-PK Interaction  
**Tamar Kleinberger; Technion - Israel Institute of Technology, Haifa, ISRAEL**

4:15 – 4:30 pm  S2:7  
The Adenovirus E4-ORF3 Protein Coopts RNF4 and p97/VCP to Direct Degradation of TFII-I  
**Patrick Hearing; Stony Brook University, Stony Brook, NY**

4:30 – 4:45 pm  S2:8  
S-nitrosylation of Human Cytomegalovirus proteins are involved in regulating anti-viral responses  
**Eain Murphy; Baruch S. Blumberg Institute of Living Science, Doylestown, PA**

5:00 pm – 6:00 pm  **Poster Session A**  
Charlestonian Ballroom
Tuesday, December 5, 2017

8:30 am – 12:00 pm  Session 3: Viruses & Cancer
Charlestonian Ballroom

8:30 – 9:00 am  S3:1
Human Papillomaviruses - from Warts to Cancers
Karl Munger; Tufts University School of Medicine, Boston, MA

9:00 – 9:30 am  S3:2
The SETD2 Methyltransferase is Required for HPV31 Replication
Cary Moody; University of North Carolina-Chapel Hill, Chapel Hill, NC

9:30 – 10:00 am  S3:3
Defend the Throne: How Small T Antigen Protects ATOH1 in Merkel Cell Carcinoma
James DeCaprio; Dana-Farber Cancer Institute, Boston, MA

10:00 – 10:30 am  Coffee Break

10:30 – 10:45 am  S3:4
Determining the Significance of Epstein-Barr Virus BORF2 Interaction with APOBEC3B
Jaime Yockteng-Melgar; University of Toronto, Toronto, ON, CANADA

10:45 – 11:00 am  S3:5
Uracil DNA Glycosylases of Gammaherpesviruses and Mammals Differentially Impact AID-induced Mutation Outcome
Kevin McBride; University of Texas MD Anderson Cancer Center, Smithville, TX

11:00 – 11:15 am  S3:6
Interplay Between Human Papillomavirus 31 and DNA Double-strand Break Signalling Machinery
Amelie Fradet-Turcotte; Laval University, Quebec, QC, CANADA
Scientific Program

11:15 – 11:30 am S3:7
Cellular Targets of High-risk Human Papillomavirus E7 Oncoproteins
Elizabeth White; University of Pennsylvania Perelman School of Medicine, Philadelphia, PA

11:30 – 11:45 am S3:8
Distinct Impact of Zika and Dengue Virus on Host Cell Signaling and Cell Cycle Regulation
Hengli Tang; Florida State University, Tallahassee, FL

12:00 pm – 1:00 pm
Lunch
Stono Ballroom

1:00 pm – 2:00 pm
Poster Session B
Charlestonian Ballroom

2:00 pm – 5:15 pm
Session 4: Chromatin & Gene Expression
Charlestonian Ballroom

2:00 – 2:30 pm S4:1
Defining the Transcriptional Foundation of Cytomegalovirus Latency with Single-cell RNA Sequencing
Noam Stern-Ginossar; Weizmann Institute, Rehovot, ISRAEL

2:30 – 3:00 pm S4:2
Epigenetic Regulation of Herpes Simplex Virus Latency and Reactivation
Anna Cliffe; University of Virginia, Charlottesville, VA

3:00 – 3:30 pm S4:3
Viral mRNA Splicing and Nuclear Export via Host Nuclear Speckles: Target for Antivirals?
Beatriz Fontoura; University of Texas Southwestern, Dallas, TX

3:30 – 4:00 pm
Coffee Break

4:00 – 4:15 pm S4:4
The Kaposi’s Sarcoma-associated Herpesvirus ORF57 Protein Protects Viral Transcripts From Host Cap- and Poly(A) Tail-associated Nuclear Decay Pathways
Nicholas Conrad; University of Texas Southwestern Medical Center, Dallas, TX
4:15 – 4:30 pm S4:5
PARP1 is Necessary for Coactivating Hypoxia-inducible Factor-1-dependent Gene Expression by Epstein-Barr Virus Latent Membrane Protein 1  

*Michael Hulse; Temple University, Philadelphia, PA*

4:30 – 4:45 pm S4:6
AAV Rep Proteins Antagonize Phosphatase PP1 to Counteract KAP1 Repression of the Latent Viral Genome  

*Sarah Smith-Moore; King’s College London, London, UNITED KINGDOM*

4:45 – 5:00 pm S4:7
Inter-genomic *Herpes simplex Type 1* Recombination Occurs Between Neighboring Replication Compartments  

*Enosh Tomer; Tel Aviv University, Tel Aviv, ISRAEL*

5:00 – 5:15 pm S4:8
Recruitment of Host Restriction Factors to Herpesviral DNA Upon Nuclear Entry  

*Joseph Cabral; Harvard Medical School, Boston, MA*

5:15 pm – 7:15 pm Ellen Fanning Memorial Lecture and Reception
Charlestonian Ballroom

Roles of the Viral Recombinase (UL12 and ICP8) in DDR Pathway Choice and the Production of HSV DNA that can be Packaged into Infectious Virus  

*Sandra Weller; University of Connecticut School of Medicine, Farmington, CT*

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**Wednesday, December 6, 2017**

8:30 am – 12:00 pm Session 5: Host Factors & Countermeasures
Charlestonian Ballroom

8:30 – 9:00 am S5:1
Multifaceted Regulation of Nuclear DNA Sensing During Infection with Herpesviruses  

*Ileana Cristea; Princeton University, Princeton, NJ*
9:00 am – 9:30 am  S5:2
Host-specific Interactions of Influenza Virus Polymerase
**Wendy Barclay**; *Imperial College, London, UNITED KINGDOM*

9:30 – 10:00 am  S5:3
TRIM Protein-Mediated Restriction of Herpesviral Infection
**Michiel van Gent**; *The University of Chicago, Chicago, IL*

10:00 – 10:30 am  Coffee Break

10:30 – 10:45 am  S5:4
Dynamic Proteomics of Herpes Simplex Virus Infection
**Nir Drayman**; *University of Chicago, Chicago, IL*

10:45 – 11:00 am  S5:5
Neuronal DNA Damage Response Pathway Regulates the Maintenance of HSV1 Latency
**Tony Huang**; *New York University School of Medicine, New York, NY*

11:00 – 11:15 am  S5:6
Intranuclear Targeting and Nuclear Export of the Adenovirus Type 5 E1B 55K Protein are Regulated by SUMO Conjugation
**Thomas Dobner**; *Heinrich Pette Institute, Leibniz Institute for Experimental Virology, Hamburg, GERMANY*

11:15 – 11:30 am  S5:7
Defining the Proteome Associated with Replicating HSV-1 DNA Reveals SLFN5 as an Antiviral Host Factor That is Degraded by ICP0
**Eui Tae Kim**; *The Children’s Hospital of Philadelphia, Philadelphia, PA*

11:30 – 11:45 am  S5:8
Playing With Fire: Selective Activation of an Executioner Caspase by the Kaposi’s Sarcoma-Associated Herpesvirus (KSHV) Lytic Initiator Protein
**Angus Wilson**; *New York University School of Medicine, New York, NY*

11:45 – 12:00 pm  Closing Remarks
**Matthew Weitzman and Sandra Weller**