

**Poster Session**

1 - Beth Osia	Jeremy Stark Lab, CoH	Rad52 and ERCC6L/PICH Have a Compensatory Relationship for Genome Stability in Mitosis
2 - Fiona Law	Peter Kaiser Lab, UCI	Second Site Rescue Mutants as Tools to Uncover Reactivation Mechanisms of P53 Cancer Mutants
3 - Anal Jana	Linlin Zhao Lab, UCR	A Novel Mitochondrial-Targeting Abasic (AP) Sites Reactive Probe (mTAP) Enables the Manipulation of DNA Repair and Turnover
4 - Youhang Li	Xiaohua Wu Lab, TSRI	ATM Priming and End Resection-Coupled Phosphorylation of MRE11 Is Important for Fork Protection and Replication Restart
5 - Anik Mitra	Irene Chiolo Lab, USC	Role of RNA Processing in Heterochromatin Repair
6 - Chiara Merigliano	Irene Chiolo Lab, USC	“Off-Pore” Nucleoporins Relocalize Heterochromatic Breaks Through Phase Separation
7 - Elodie Bournique	Rémi Buisson Lab, UCI	ATM and IRAK1 Orchestrate Two Distinct Mechanisms of NF- $\kappa$ B Activation in Response to DNA Damage
8 - Maya Qaddourah	Jane Kim Lab, CSUSM	Investigating The Role of Mismatch Repair on CCTG DNA Repeat Instability
9 - Qingyue Yu	Hua Wang Lab, UCLA/ The Lundquist Institute	The BRCA1-METTL3 Complex Safeguards Genome Stability and PARPi Sensitivity
10 - Reilly Mach	Shannon Miller Lab, TSRI	Engineering SpCas9 Towards Compatibility with Fully Chemically Modified sgRNA
11 - Chetan Rawal	Irene Chiolo Lab, USC	PRC1 Dysregulation: Epigenetic Tumors and Genome Instability
12 - Chetan Rawal	Irene Chiolo Lab, USC	Epigenetic Silencing Directs Homologous Recombination at Heterochromatic Double Strand Breaks
13 - Kassy Lopez	Sarah Shuck Lab, CoH	Elucidating the Role of Reactive Metabolic By-Products as Predictors and Drivers of Type 2 Diabetes
14 - Kathleen Urrutia	Linlin Zhao Lab, UCR	DNA Sequence and Lesion-Dependent Mitochondrial Transcription Factor A (TFAM)-DNA-Binding Modulates DNA Repair Activities and Products
15 - Tong Wu	Xiaohua Wu Lab, TSRI	SMC5/6 Complex Rescues Transcription-replication Conflicts in SETX-deficient Cells
16 - Fan Meng	Mustafa Raouf Lab, CoH	Base-Excision Repair Pathway Regulates Transcription-Replication Conflicts in Pancreatic Ductal Adenocarcinoma
17 - Yingying Wang	Binghui Shen Lab, CoH	EGFR-Mediated HSP70 Phosphorylation Facilitates PCNA Association with Chromatin and DNA Replication

18 - Ryusuke Suzuki	Hisashi Tanaka Lab, Cedars-Sinai Medical Center	Genomic Origins and Mechanisms Underlying the Formation of Extrachromosomal Circular DNA
19 - Trey Simpson	LUMICKS	DNA-Protein Interactions and Genome Maintenance at The Single-Molecule Level: Versatile Tools to Unravel the Molecular Basis of Life
20 - Maria Altshuller & Victoria MacKrell	Dan Semlow Lab, Caltech	Phosphatase Dependent Regulation of ICL Repair by the Fanconi Anemia Pathway
21 - Marlene Lopez	Crystal Marconett Lab, CoH	Long Non-Coding RNA Functions as Regulator of the DNA Damage Response in Lung Cancer
22 - Emilie Chien	Matthew Michael Lab, USC	TOP-2 Induced DNA Double-Strand Breaks Promote Genome Activation in the <i>C. elegans</i> Germline
23 - Joseph Agha	Lisa Racki Lab, TSRI	Polyphosphate Condensates Regulate Gene Expression and Maintain Chromosome Conformation During Nitrogen Starvation in <i>Pseudomonas Aeruginosa</i>
24 - Michael Murata	Hisashi Tanaka Lab, Cedars-Sinai Medical Center	Developing a Liquid Biopsy Approach for Early Detection of Androgen Receptor Gene Amplification in Prostate Cancer
25 - Oanh Huynh	Matthew Michael Lab, USC	The Role of TOPBP1 in Non-Homologous End Joining-Based DNA Repair
26 - Emma Segovia	Jane Kim Lab, CSUSM	Investigating the Role of Pif1 Helicase on CCTG DNA Repeat Fragility
27 - Garrit Clabaugh	Yinsheng Wang Lab, UCR	Formation of Carboxymethyl-Phosphotriester Adducts in DNA
28 - Andrew Kellum Jr.	Yinsheng Wang Lab, UCR	Photoaffinity Proteomic Methods to Discover Novel DNA Damage Binding Proteins
29 - Khoi Huynh	Aram Modrek Lab, USC	Dosage Dependent Differential Gene Expression and Chromatin Accessibility for Glioblastoma
30 - Sara Weissman	Aram Modrek Lab, USC	HMGB2-Mediated Radioresistance of Glioblastoma Stem Cells
31 - Michele Correa	Crystal Marconett Lab, USC / CoH	Identifying the Binding Partners of a Long Noncoding RNA Involved in the DNA Damage Response