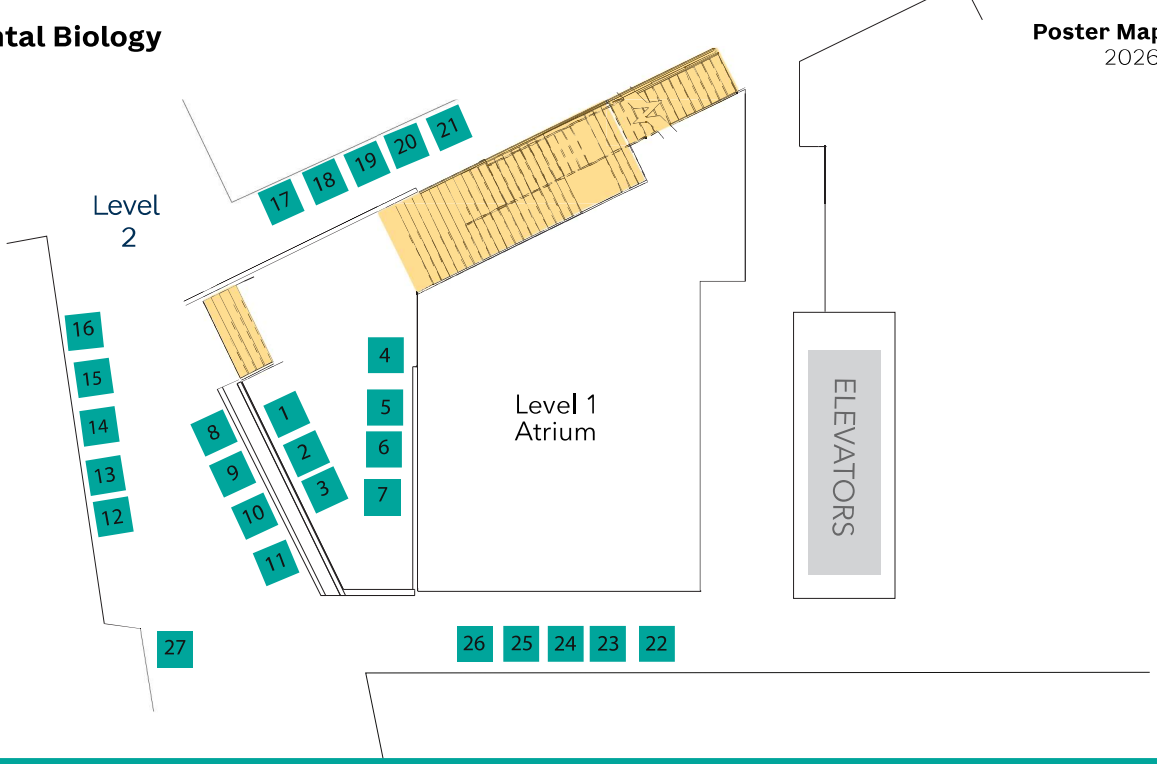
2026 Stem Cell & Developmental Biology Early Career Symposium

Poster Map
2026

/session a
posters 1a - 27a
Sept. 23 | 4:20-5:20 pm



A01	Man (Jon) Wong	Axial Context Defines Early Human Neural Crest Identity and Enables Spatially Informed Benchmarking of In Vitro Models
A02	Eric Hall	Cytoneme-Mediated Morphogen Transport Orchestrates Neurodevelopment and Homeostasis and is Repurposed to Maintain Stemness in Developmental Brain Cancers
A03	Riddhiman Garge	Multi-omic Approaches to Understand the Proteomic Landscape and Temporal Dynamics of Mammalian Gastruloid Development
A04	Andrea Hauserová	p38-MAPK Signalling in Lineage Specification of Mouse Blastocyst
A05	Erica Hutchins	Rewriting Cell State: Post-Transcriptional Control of Developmental Plasticity
A06	Carina Mae	Polyclonal iPSC Reprogramming Using High-Efficiency Footprint-Free mRNA Enables Rapid and Scalable Manufacturing for NAM Applications
A07	Loïc Fort	Actomyosin Contractility is a Potent Suppressor of Mesoderm Induction by Human Pluripotent Stem Cells
A08	Sylvia Nunez	Single-Cell Multiomics Analysis Unveils the Isthmus Region of the Embryonic Central Nervous System is Comprised of Heterogeneous Cell Subpopulations
A09	Lei Gao	Axon Pathfinding Regulation by Altering Ephrin Signaling
A10	Megan Schreiber	Understanding HNF1B Function and Dysfunction with Human Kidney Organoid Models
A11	Jennifer Kong	Ubiquitin Signaling at the Plasma Membrane: Adapter-Mediated Control of Receptor Abundance
A12	Lauren Jennings	Oxygen as a Factor to Improve the Generation of Mature Stem Cell-Derived Pancreatic Beta Cells
A13	Elisa Balmas	Single cell Transcriptional Perturbome in Pluripotent Stem Cell Models
A14	Debora Sobreira	From Genetics to Cell Biology: Stem Cell Models of Metabolic Disorders Across Key Metabolic Tissue
A15	Priyanka Kumari	Identification of Functional Non-Coding Variants Associated with Orofacial Cleft
A16	Ryan Finnel	Two Distributed Enhancers of Sox17 Regulate the Developmental Fate of the Ventral Pancreas and Gallbladder in an Additive and Temporally Dependent Manner
A17	Anthony Galenza	Membrane-Bending Proteins Promote Formation of a Curved Apical Domain During De Novo Polarization in Drosophila Intestinal Stem Cell Progeny
A18	Olivia Justynski	Characterizing Migratory Cell Differentiation in Developing Zebrafish Skin
A19	Feimei Zhu	Modeling T2D-Linked Metabolic Dysfunction in iPSC-Derived Hypothalamic Neurons at Single-Cell Resolution
A20	Pelin Yasar	Lineage-Derived Mammary Organoids Exhibit Distinct Hormone Responses Independent of Receptor Abundance
A21	Danyang Wang	Derivation of Theca Stem Cells from Human Pluripotent Stem Cells and Ovarian Tissue
A22	Joseph Campanale	Leaders Can't Lead Without Followers: The Discovery of a Polarity Regulated Rac Activity Pathway in Follower Border Cells.
A23	Arata Wakimoto	Notochord-Competent Human Gastruloids for Mapping Dorsal-Ventral Axis Formation
A24	Aradhana Kasimsetty	Developing iPSC-derived 3D Outer Blood-Retinal Barrier Disease Models of Choroideremia for Gene Therapy Evaluation
A25	Catherine Hamann	An Assembloid Model Of Frontotemporal Dementia With MAPT Mutations
A26	Laura Stump	Building a Bilayer: How Epithelial Layers Form and Integrate in Embryonic Skin
A27	Isabel Mejia Natividad	Mapping F-actin Dynamics and Rho1/Cv-c Signaling Axis During Tubule Extension

2026 Stem Cell & Developmental Biology Early Career Symposium

Poster Map
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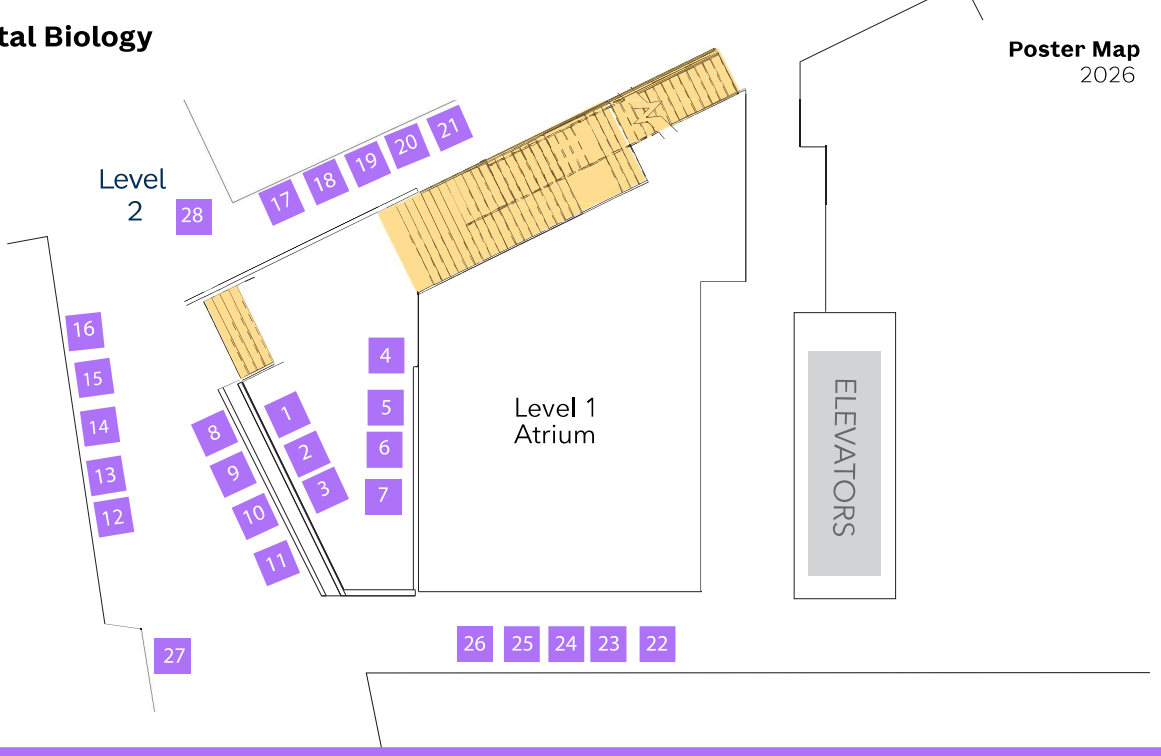
/session b

posters 1b-27b
sept 23 | 5:30 - 6:30 pm



B01	Mia Konjikusic	How Compartmentalized Cell Signaling Instructs Development
B02	Arlene Anicete	Utilizing Organoid Protocol Optimization to Develop Educational Infrastructure at USC's ASCEND Shared Resource Laboratory
B03	Hae Ryong Kwon	PDGFRbeta Signaling Promotes Marrow Genesis During Postnatal Calvaria Development
B04	Juyoun Yoo	The Role of Chromatin Remodeler CHD8 in Neuronal Maturation and Early Postnatal Circuit Wiring
B05	Carolyn Sangokoya	"Genetically-Encoded Iron Sensors Enable Functional Screening to Reveal MetabolicLevers of Stem Cell State and Fate"
B06	Ana Santos	The Impact of PDGFRB Variants on Cerebellum Development
B07	Fiona Daly	Small Molecule Modulation of Lineage Bifurcation Between Cortico-Thalamic and Hypothalamic Neuronal Fates from Human Pluripotent Stem Cells
B08	J. Raul Perez-Estrada	Metabolic Regulation of Newt Eye Formation in Development and Regeneration
B09	Anala Shetty	Single Cell Multiomics Approach to Analyze Replication Timing and Gene Expression in Mouse Preimplantation Embryos
B10	Aman Ahmed	Engineering Macrophages with SynNotch Circuits to Modulate Post-Infarction Inflammation and Tissue Regeneration
B11	Hayden Bhavsar	A Gene Expression Atlas Resolves Osteoblast Transcriptional Heterogeneity in a Zebrafish Bone
B12	Bradley Hoskin	Hepatomesenchymal Cell Plasticity and Contributions in the Liver
B13	Deniz Kesmen	Novel Function of Pro-Apoptotic BIK in Neuronal Differentiation
B14	Elise Loffet	Buckling Asymmetry of the Duck Small Intestine Reveals Putative Regulators of Tissue Mechanics
B16	Louis Prahl	Optogenetic Budding Morphogenesis in Kidney Organoids
B17	Connor Fausto	Patterning Human Kidney Organoids with Synthetic Wnt-Secreting Organizers
B18	Negar Hosseini	Investigating Human-Specific Drivers of Cerebellar Evolution
B19	George Chen	Characterization of Kleefstra Syndrome and KMT2C-related disorders using patient-derived cortical organoids.
B20	Hanh Truong	Importin9 Impacts the Hedgehog Response via Regulating GLIs
B21	Markus Merk	Hypertrophic Cardiomyopathy Mutations Impair Contractility-Driven Nematic Order in Human Cardiac Organoids
B22	Jonathan Dawson	Dynamics of Spatiotemporal Patterning of Contact-Based Cellular Signals in a Growing Tissue in vivo
B23	Olya Yarychkivska	MYRF-1 Primes a Migrating Cell for Non-Apoptotic Cell Death via pqn-41/polyQ
B24	Shicong Xie	Shaping Cellular Destinies: How Cell and Tissue Geometry Dictates Stem Cell Fate in the Adult Mammalian Epidermis
B25	Razieh Jaberi	Concussive Injury Modulates Neurogenesis and Circuit Function in Human Forebrain Organoids
B26	Priyom Adhyapok	Spatio-Temporal Patterning Principles of Building the Vertebrate Body
B27	Simoni Avansini	Human Assembloids Recapitulate Morphological Features of the Developing Fetal Brain
B28	Liza Panova	Standardized High Density iPSCs as a Starting Material for Scalable and Reproducible Organoid Workflows

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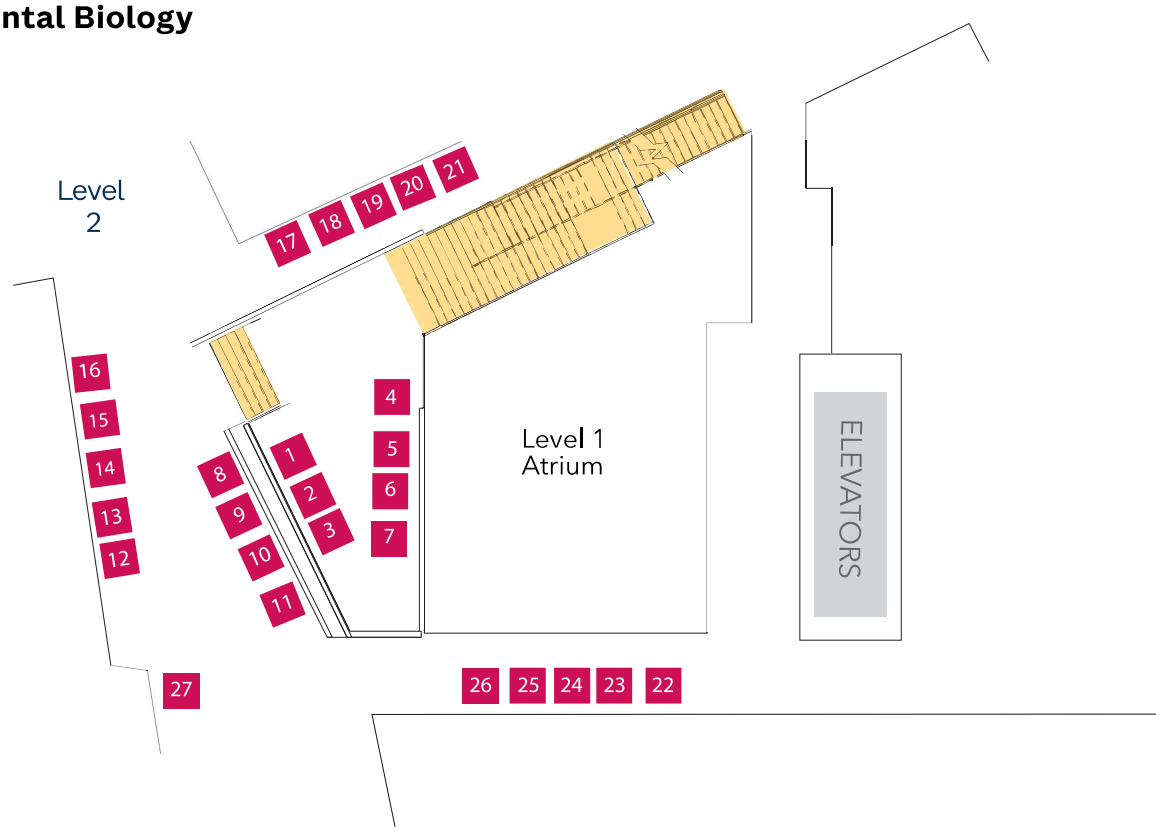
/session c

posters 1c - 28c

sept 24 | 3:35 - 4:30 pm



C01	Marguerite Blignaut	Metabolic Manipulation and Mitochondrial Dysregulation of Cardiac Spheroid Models
C02	Lizza Roman	Understanding Tissue Resident Macrophage Development by Using Human-Derived Pancreatic Organoids
C03	Ross Jones	Engineered, Clinically-Relevant Production of CD4+ Helper T cells from Pluripotent Stem Cells
C04	Ty WeaverFluorescence	Lifetime Imaging of Mitochondrial Dysfunction in Rotenone-Induced iPSC-Derived Cardiomyocyte Disease Models
C05	Tzu Chia Liu	Identifying Vessel Promoting MicroRNA from Human Neural Stem and Progenitor Cells
C06	Oluwaseun Ajayi	Structural and Mechanistic Characterization of a PLP-Dependent Aminotransferase in Complex Biosynthetic Pathways
C07	Oscar Alberto de la Fuente	Dissecting hand2 Gene Regulation in Cardiac Development through Cis-Regulatory Element Discovery and Multiplexed DNA-RNA Imaging
C08	Joseane Righes Marafiga	Cell-Based Therapy for Absence Epilepsy: Transplantation of MGE-Derived Progenitor Cells
C09	Zong-Yuan Liu	Endogenous FGFs Drive ERK-dependent Cell Fate Patterning in 2D Human Gastruloids
C10	Ayse Damla Durmaz	Cell Competition as a Quality Control Mechanism During Development
C11	Juste Levitt	CXCL10 - Mediated Acute Cardiac Responses in Severe Influenza A Virus (IAV) Infection
C12	Akhilesh Kumar	Fine-Tuning BCL11B Timing Unlocks Potent NK Cell Differentiation and Cytotoxicity from Human Pluripotent Stem Cells
C13	Isha Verma	Highly Efficient Generation of GABAergic Neurons from Human Stem Cells based on Transcription Factor Overexpression Using PiggyBac Transposon System
C14	Kagistia Hana Utami	Corticospinal Assembloids Reveal Early TDP-43 Pathology and Network Dysfunction in Amyotrophic Lateral Sclerosis
C15	M. Fernanda Palominos	Discovery of New Genes Underlying Rapid Craniofacial Evolution Using Comparative Multi-Omics in Pupfishes
C16	Sarah John	Aberrant Hippo Signaling due to TAOK1 Mutation Leads to Brain Organoid Overgrowth
C17	Fan ZhangMultiscale	Engineering of Liver-Specific Vascular Network
C18	Yesh Doctor	A Perturbation Cell Atlas of KOLF2.1J hiPSCs Reveals Transcriptional and Post-Transcriptional Regulators of Cell State
C19	Tanvi Sinha	Cardiac Outflow Restricted Gene Expression is Achieved via Tbx5-Dependent Repression
C20	Davoneshia Lollis	Exploring Pleiotropy of the Human-Specific Enhancer HARE5 in Brain Development and Evolution
C21	Casey Griffin	Human Stem Cell Model of Neural Crest Cell Differentiation Reveals a Requirement of SF3B4 in Survival, Maintenance, and Differentiation
C22	Kayleigh Hackett	Investigating DiGeorge Region Protein Loss in Control and Patient Cells
C23	Ed Zandro Taroc	Human Ectodermal Organoids Reveal the Cellular Origin of DiGeorge Syndrome
C24	Princess Ngwu	The Role of TNSL-1 in DNA Damage Repair and RNAi
C25	Jessica Welton	A Fully Integrated, Hormone-Responsive Human Endometrial Assembloid Models Multicellular Implantation Remodeling
C26	Carly Guiltinan	Self-Organization of Human Embryonic Stem Cells into Embryo Models by Multiplexable Epigenome Editing
C27	Xinwen Zhu	Prolonged Pancreatic Progenitor Expansion Shifts Cells Toward Alternative Cell Fatesl Brain