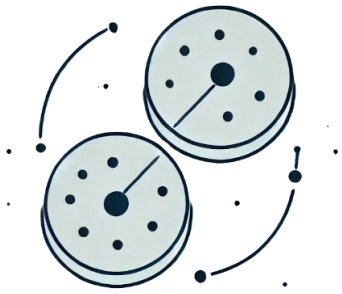
Cell-Cell Symposium Program

Wednesday-Thursday, April 16-17
California NanoSystems Institute, UCLA
570 Westwood Plaza, Building 114
Los Angeles, CA 90095



Theme: Bridging Single-Cell Analysis and Spatial Biology to Uncover Cell-Cell Interactions

Key Goals:

- Advancing assay development to study cell-cell Interactions
- Tackling bioinformatics and data analysis challenges in spatial and single-cell research
- Hands-on Nanovial technology workshop to empower researchers in experimental design and data collection

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Day 1: Symposium

10:00-10:30 AM **Arrival and Registration**

<u>Morning Sessions</u>

10:30 AM - 10:45 AM **Welcome and Opening Remarks**

- Brief introduction to the symposium's goals and themes
- Thanks to our sponsors
- Chairperson/Organizer: Dino Di Carlo, Heather Wright

10:45 AM - 12:15 PM **Session 1: Assay Development and Applications**

- Chair: **Nathan Lewis**
- Talks (15–20 min each):

  Nathan Lewis (University of Georgia)

  Rong Lu (University of Southern California)

  Xiaojing Gao (Stanford University)

- Panel Discussion (30 min): Current Challenges and Future Directions in Cell-Cell Assay Development

12:15 PM - 1:45 PM **Lunch Break (1 hour 30 min)**

Afternoon Sessions

1:45 PM - 3:15 PM **Session 2: Bioinformatics and Data Analysis Challenges**

- Chair: **Jessica Li**
- Talks (15–20 min each):
  Jessica Li (University of California, Los Angeles)

  Qing Nie (University of California, Irvine)

  Matt Thomson (California Institute of Technology)
- Panel Discussion (30 min): Overcoming Data Analysis Challenges and Data Needs

3:15 PM - 3:30 PM **Break**

3:30 PM - 5:00 PM **Social Hour**

- Goal: Facilitate informal interactions among attendees to foster collaborations

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Day 2: Hands-On Nanovial Workshop

9:00 AM - 12:00 PM Nanovial Workshop (3–4 hours)

- Introduction to Nanovial Technology for Cell-Cell Interaction Studies
  - Instructors: Sevana, Justin, Heather
  - Topics covered:
    - Experimental design for studying cell-cell interactions
    - Protocols for using nanovials
    - Data collection and troubleshooting
- Experimental Sessions (2-3 hours):
  - Small groups focus on specific experimental steps
    - Loading multiple cells on nanovials
    - Flow cytometry, imaging cytometry, and gating of nanovials

12:00 PM - 1:00 PM Lunch Break

1:00 PM - 2:00 PM Closing Workshop

- Closing Workshop Session:
  - Workflow questions
  - Collaborative troubleshooting of participant-submitted challenges
  - Brainstorming on future applications

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