

**Festschrift for Nick Spitzer**  
**Friday, November 11, 2022**  
**Fred Kavli Auditorium, Tata Hall, UC San Diego**  
**9:00am – 5:00pm**  
**Reception to follow**

<b>9:00am</b>	<b>Introduction</b> , Yishi Jin, Kit Pogliano
<b>9:15am</b> Eve Marder  Grae Davis Gina Turrigiano Mu-ming Poo	<b>Session 1: Great Friends</b> , Yishi Jin, Chair Cryptic changes to degenerate neurons and circuits elicited by climate change are revealed by repeated perturbations Stabilizing neuronal function: flies, mice and great friends! The ups and downs of firing rate homeostasis Nerve growth and synaptic plasticity
<b>11:00am</b>	<b>Coffee break</b>
<b>11:15am</b> Alan Willard Diane O'Dowd Shawn Lockery	<b>Session 2: Embryonic development of the action potential</b> , Darwin Berg, Chair Early years in the Spitzer lab (1973-1978) Challenge accepted: The dawn of patching in Nick's lab Neuronal development, Hodgkin-Huxley, and the human modem
<b>11:45am</b> Guo-Li Ming Tim Gomez Xavier Nicol	<b>Session 3: Activity dependent regulation of axon extension</b> , Bill Kristan, Chair Engineering human brain organoids for understanding human brain development and diseases Reflections on my "blow your socks off" time working with Nick Control of axon pathfinding by subcellular-specific second messenger networks
<b>12:30pm</b>	<b>Lunch, hosted on patio</b>
<b>2:00pm</b> Carla Shatz Corey Goodman Oliver Hobert	<b>Session 4: Great Friends</b> , Yishi Jin, Chair Two faces of synapse pruning: development vs Alzheimer's disease Embryonic development of identified neurons: Nick, Corey and grasshopper embryos 1977-1979 Worms dancing to Nick's tunes: Neurotransmitter plasticity in <i>C.elegans</i>
<b>3:15pm</b>  Laura Borodinsky  Cory Root Norma Velazquez Ulloa	<b>Session 5: Transmitter switching during embryonic development</b> , Alicia Guemez-Gamboa, Chair Interplay between calcium activity, morphogens, and the environment in the differentiation of spinal cord neurons Neural circuits that underlie innate motivational valence to odor From Mexico to Oregon, how the Spitzer Lab shaped my career
<b>3:50pm</b>	<b>Coffee break</b>
<b>4:05pm</b> Davide Dulcis Da Meng  Huiquan Li	<b>Session 6: Transmitter switching in the adult rodent brain</b> , Larry Squire, Chair Light-induced dopamine plasticity affecting behavior. Neuronal activity regulates neurotransmitter switching in the adult brain following light-induced stress Neurotransmitter plasticity underlying generalized fear: implications for treatment of PTSD
<b>4:45pm</b>	<b>Closing remarks</b> Nick Spitzer
<b>5:00 – 6:00pm</b>	<b>Reception presented by UC San Diego Biological Sciences</b>