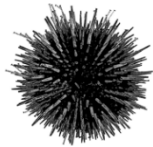


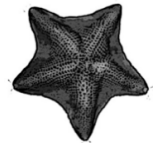


A memorial and celebration: Ten years after

Genomic encoding of gene regulation, gene network control of development, gene regulatory network theory, evolution of development



Saturday – Sunday, 20 – 21 September, 2025



Beckman Institute Auditorium, California Institute of Technology,
Pasadena, CA 91125, USA

Program

Saturday, 20th September 2025			
09:15	Welcome		
09:30	Marianne Bronner	Caltech	Neural crest gene regulatory networks underlying enteric nervous system development
09:55	Maria Ina Arnone	Stazione Zoologica	Gene regulatory networks meet cell type evolution: lessons from an 'urchin'
10:20	Sorin Istrail	Brown University	Davidson Causality
10:45 – 11:15		Coffee Break	
11:15	Angela Stathopoulos	Caltech	Molecular Self-Control: Designing Autoregulatory Feedback in Gene Expression
11:40	Christina Theodoris	Gladstone Institute	Transfer learning to enable predictions in network biology
12:05	Ute Deichmann	Ben-Gurion U.	Eric Davidson - a scientific revolutionary?
12:30-14:00		Lunch break	
14:00	Pedro Martinez Serra	U. Barcelona	From sea urchins to acoel flatworms: the role of Eric in shaping my evolutionary interests
14:25	Paola Oliveri	UCL	From genes to skeletons: what comparative GRNs reveal about evolution
14:50	Smadar Ben-Tabou de-Leon	U. Haifa	Mechano-Genetic Regulation and the Evolution of Skeletogenesis in Sea Urchins
15:15	David McClay	Duke	Rescue of missing cells in the sea urchin embryo
15:40 – 16:10		Coffee Break	

Saturday, 20th September 2025			
16:10	Andy McMahon	Caltech	Developmental programming of kidney functions
16:35	Stefan Materna	UC Merced	Patterning and morphogenesis in the zebrafish endoderm
17:00	Lee Hood	ISB	Data driven health
Banquet (Speakers and Former Lab Members) – Alles Courtyard			

Sunday, 21st September 2025			
09:30	Douglas Erwin	Santa Fe Institute	The Role of GRNs in the generation of evolutionary novelty
10:55	David Bottjer	USC	The early evolution of animals and their development
10:20	Donal Manahan	USC	A Physiological & Environmental Perspective on Development & Evolution
10:45 – 11:15		Coffee Break	
11:15	Veronica Hinman	Whitney	Charting New Territory: Early Steps Toward a GRN of Regeneration in sea stars
11:40	Yi-Hsien Su	Academia Sinica	EvoDevo and the origin of our kind
12:05	Kevin Peterson	U. Darmouth	Capturing changes to animal complexity from quantifiable patterns in genomic data
12:30-14:00		Lunch break	
14:00	Cesar Arenas-Mena	CUNY	Transcriptional Regulatory Elements, Multipotency and Evolution
14:25	Jonathan Rast	Emory	Changing views of immunity in agnathans and invertebrates
14:50	Diana Dou	Duke	A Female Autoimmunity Conundrum: When 2 X's need to XIST
15:15	Miao Cui	Harvard	Mending broken hearts: insights from regenerative biology and gene regulatory networks
15:40 – 16:10		Coffee Break	
16:10	Barbara Wold	Caltech	The ins and outs of gene expression
16:35	Mike Levine	Princeton	TBD
17:00	Paul Sternberg	Caltech	To what extent is development solved?
17:25	Closing remarks and farewell		

Organizers

Ellen V. Rothenberg, Maria Ina Arnone, Paola Oliveri, Venus Jones

Registration is free. Sessions, breaks and lunches open to the general Caltech community.

