

9th INTERNATIONAL TUNICATE MEETING  
PROVISIONAL PROGRAM

**Sunday, July 16<sup>th</sup>**

*Rosenthal Pavilion*  
6:00pm - 8:00pm

WELCOME RECEPTION

---

**Monday, July 17<sup>th</sup>**

*Rosenthal Pavilion*  
8:15am - 9am

BREAKFAST

9:00am - 9:15am

Opening remarks - Anna Di Gregorio and Lionel Christiaen

9:15am - 10:55am:

**Session 1 - Beginning of Embryogenesis**

Chair: Hiroki Nishida

9:15am - 9:40am

#1 **Silvia Caballero-Mancebo** (IST Austria). *Actin driven ooplasmic segregation in ascidian oocytes*

9:40am - 10:05am

#2 **Benoit Godard** (IST Austria). *Cleavage plane positioning in early ascidian embryos*

10:05am - 10:30am

#3 **Rémi Dumollard** (Sorbonne Universités, UPMC, CNRS). *Apical cell shape drives the invariant cleavage pattern of early ascidian embryos and relies on intrinsic and extrinsic cell deformations*

10:30am - 10:55am

#4 **Ute Rothbacher** (University of Innsbruck). *Repression through Wnt signaling effectors*

10:55am - 11:15am

COFFEE BREAK

11:15am - 12pm:

**Session 2 - Developmental Cell Biology**

Chair: Michael Veeman

11:15am - 11:40am

#5 **Takefumi Negishi** (Tohoku University). *Membrane invagination-mediated posterior ciliary positioning is involved in the neurula rotation in *Ciona intestinalis**

11:40am - 12:05am

#6 **Christina Cota** (Swarthmore College). *Mitotic progression choreographs FGF receptor redistribution during differential heart progenitor induction*

12:05am - 12:30am

#7 **Yelena Bernadskaya** (New York University). *Dual function of the collagen receptor DDR in specifying cell identity and regulating cell adhesion during cardiopharyngeal precursor migration*

12:30pm - 2:00pm

LUNCH BREAK (*optional lunch box offered*).

2:00pm - 3:15pm:

**Session 3 - From Development to Genomics**

Chair: Patrick Lemaire

- 2:00pm - 2:25pm #8 **Michael Veeman** (Kansas State University). *Shaping the ascidian notochord*
- 2:25pm - 2:50pm #9 **Robert Zeller** (San Diego State University). *Genome and transcriptome assemblies for two *Ascidia* species*
- 2:50pm - 3:15pm #10 **Megan Wilson** (University of Otago). *Tunicate evolution: Insights from recently sequenced genomes*
- 3:15pm - 3:45pm GROUP PHOTO (*Rosenthal Pavilion or Washington Square Park*)
- 3:45pm - 4:05pm COFFEE BREAK
- 4:05pm - 5:20pm: **Session 4 - Allorecognition and Immunity**  
Chair: Tony De Tomaso
- 4:05pm - 4:30pm #11 **Marie Nydam** (Centre College). *Balancing selection on allorecognition genes in the colonial ascidian *Botryllus schlosseri**
- 4:30pm - 4:55pm #12 **Loriano Ballarin** (University of Padova). *Amyloid and allorecognition in the colonial ascidian *Botryllus schlosseri**
- 4:55pm - 5:20pm #13 **Ayelet Voskoboynik** (Stanford University). *BHF mediates induction and loss of tolerance in *Botryllus schlosseri* chimeras*

*Dinner on your own*

---

## Tuesday, July 18<sup>th</sup>

*Rosenthal Pavilion*

8:15am - 9:15am

BREAKFAST

9:15am - 10:30am:

### **Session 5 - Nervous System Development and Anatomy**

Chair: Ian Meinertzhagen

9:15am - 9:40am

#14 **Kerrienne Ryan** (Dalhousie University). *Interpreting the connectome of a *Ciona intestinalis* (L.) larva*

9:40am - 10:05am

#15 **Alberto Stolfi** (NYU/Georgia Institute of Technology). *A conserved RNA switch for Acetylcholine receptor clustering at the neuromuscular junction*

10:05am - 10:30am

#16 **Kouhei Oonuma** (Konan University). *The cell lineage and the patterns of cell division for photoreceptor cells of the left-right asymmetric ocelli in the *Ciona intestinalis* larva*

10:30am - 10:50am

COFFEE BREAK

10:50am - 12:40pm:	<b>Session 6 - Development and Evolution of the Nervous System</b> Chair: Takehiro Kusakabe
10:50am - 11:15am	#17 <b>Adeline Rausch</b> (Bioemergences - CNRS). <i>Putative neural crest-like cells in Tunicates, behavior, identity and fate of A10.64</i>
11:15am - 11:40pm	#18 <b>Takeo Horie</b> (University of Tsukuba/Princeton University). <i>Neural crest and cranial placodes share a common evolutionary origin</i>
11:40am - 12:40pm	<b>KEYNOTE: Marianne Bronner</b> (California Institute of Technology) <i>Evolutionary origin of vertebrate enteric neurons</i> Chair: Lionel Christiaen
12:40pm - 2:00pm	LUNCH BREAK ( <i>optional lunch box offered</i> )
2:00pm - 3:15pm:	<b>Session 7 - Gene regulation</b> Chair: Kenneth Hastings
2:00pm - 2:25pm	#19 <b>Wei Wang</b> (New York University). <i>A single cell transcriptional roadmap for cardiopharyngeal fate diversification.</i>
2:25pm - 2:50pm	#20 <b>Claudia Racioppi</b> (New York University). <i>Chromatin accessibility underlying cardiac vs. pharyngeal muscle specification in Ciona</i>
2:50pm - 3:15pm	#21 <b>Emma Farley</b> (UC San Diego). <i>Regulatory grammar governing enhancer specificity</i>
3:15pm - 3:35pm	COFFEE BREAK
3:35pm - 5:15pm:	<b>Session 8 - Imaging Ascidian Development</b> Chair: Nadine Peyri�ras
3:35pm - 4:00pm	#22 <b>Ulla-Maj Fiuza</b> (EMBL). <i>A Nodal and Ephrin signalling relay drives the transition between apical constriction and apico-basal shortening during ascidian endoderm invagination</i>
4:00pm - 4:25pm	#23 <b>Ed Munro</b> (University of Chicago). <i>Spatiotemporal control of actomyosin contractility during zippering and neural tube closure in a simple chordate</i>
4:25pm - 4:50pm	#24 <b>Taichi Akahoshi</b> (Keio University). <i>Comprehensive characterization of Ca<sup>2+</sup> transients in early Ascidian development</i>
4:50pm - 5:15pm	#25 <b>Emmanuel Faure</b> (CNRS). <i>4D Clouds Embryos</i>
5:15pm - 7:15pm	<b>POSTER SESSION 1</b> - all sessions, odd numbers
<i>Dinner on your own</i>	

---

**Wednesday, July 19<sup>th</sup>**

Rosenthal Pavilion

9:30am - 11:30am

Session: career panel discussion

EXCURSION

---

**Thursday, July, 20<sup>th</sup>**

Rosenthal Pavilion

8:15am - 9:15am

BREAKFAST

9:15am - 10:30am:

**Session 9: Systematics and Evolution (1)**

Chair: Billie Swalla

9:15am - 9:40am

#26 **Billie Swalla** (University of Washington). *Molgulid tales*

9:40am - 10:05am

#27 **Cristian Cañestro** (University of Barcelona). *Gains N' Losses during the evolution of RA and Wnt developmental pathways in Oikopleura dioica and ascidian species*

10:05am - 10:30am

#28 **Dorothee Huchon** (Tel-Aviv University). *Insights from complete mitochondrial sequences on the phylogenetic relationships of Aplousobranchia*

10:30am - 10:50am

COFFEE BREAK

10:50am - 12:40pm:

**Session 10: Systematics and Evolution (2)**

Chair: Billie Swalla

10:50am - 11:15am

#29 **Fabio Gasparini** (University of Padova). *Disentangling a species complex: the case of the colonial ascidian Botryllus schlosseri*

11:15am - 11:40am

#30 **Rosana Rocha** (Universidade Federal do Paraná). *Is Styela canopus a complex of species?*

11:40am - 12:40pm

**KEYNOTE: Gretchen Lambert** (University of Washington). *The continuing saga of a sea squirt detective: fouling ascidians in the Galapagos on artificial surfaces*

Chair: Anna Di Gregorio

12:40pm - 2:00pm

LUNCH BREAK (optional lunch box offered)

2:00pm - 3:15pm:

**Session 11: Ecology (1)**

Chair: Noa Shenkar

2:00pm - 2:25pm

#31 **Shady Amin** (NYU Abu Dhabi). *Algal-bacterial interactions: Mutualism, antagonism and chemical signaling*

- 2:25pm - 2:50pm #32 **Mey-Tal Gewing** (Tel-Aviv University). *Med vs. Red: temperature sensitivity of the non-indigenous ascidian Herdmania momus in the Mediterranean Sea*
- 2:50pm - 3:15pm #33 **Steve Irvine** (University of Rhode Island). *Connecting water temperature to reproductive physiology and molecular signals in C. intestinalis*
- 3:15pm - 3:35pm COFFEE BREAK
- 3:35pm - 4:00pm: **Session 12: Ecology (2)**  
Chair: Shigeki Fujiwara
- 3:35pm - 4:00pm #34 **Susanna Lopez-Legentil** (University of North Carolina Wilmington). *Introduced and native ascidian microbiomes from artificial versus natural habitats*
- 4:00pm - 4:25pm #35 **Lauren Stefaniak** (Georgia Southern University). *Moving to the reef: historical and present observations of the worldwide introduced species Styela plicata in the Northwest Atlantic continental shelf*
- 4:25pm - 4:50pm #36 **Khashayar Razghandi** (Humboldt-Universität zu Berlin). *Structure-Function Analysis of the Filter-House of the Appendicularian Oikopleura dioica*
- 4:50pm - 5:15pm #37 **Laurel Hiebert** (Universidade de São Paulo). *How ecological factors influence growth patterns of colonial and solitary ascidians*
- 5:15pm - 7:15pm **POSTER SESSION 2** - all sessions, even numbers.
- Dinner on your own*

---

**Friday, July 21<sup>st</sup>**

*Rosenthal Pavilion*

8:15am - 9:15am

BREAKFAST

9:15am - 10:30am:

**Session 13: Late embryos and early larvae**

chair: Filomena Ristoratore

9:15am - 9:40am

#38 **Antonio Palladino** (Stazione Zoologica Anton Dohrn). *Gsx in Ascidian Central Nervous System Development*

9:40am - 10:05am

#39 **Ugo Coppola** (Stazione Zoologica Anton Dohrn). *Klhl21: a new player for pigmentation from Ciona robusta*

10:05am - 10:30am

#40 **Brad Davidson** (Swarthmore College). *Laterally asymmetric morphogenesis of the heart and gut in Ciona intestinalis*

10:30am - 10:50am

COFFEE BREAK

10:50am - 12:30am: **Session 14: Post-embryonic Development**

Chair: Thomas Stach

10:50am - 11:15am #41 **Gabriel Krasovec** (Sorbonne Universités, UPMC, IBPS, CNRS). *Morphogenetic function of apoptosis during tail regression at the metamorphosis stage of Ciona intestinalis*

11:15am - 11:40pm #42 **Hiroki Nishida** (Osaka University). *Patterning and morphogenesis of the intricate but stereotyped Oikoplastic epidermis of the appendicularian, Oikopleura dioica*

11:40pm - 12:05pm #43 **Jiankai Wei** (Ocean University of China). *Molecular composition and architecture of extracellular matrix in ascidian embryogenesis and larval metamorphosis*

12:05pm - 12:30pm #44 **Anthony De Tomaso** (UC Santa Barbara). *In vivo manipulation of the extracellular matrix induces vascular regression in a basal chordate*

12:30pm - 2:00pm LUNCH BREAK (optional lunch box offered)

2:00pm - 3:40pm: **Session 15 - asexual reproduction and regeneration**

Chair: Federico Brown

2:00pm - 2:25pm #45 **Maria Mandela Prünster** (Sorbonne Universités, UPMC, CNRS). *Detour to make muscles? Myogenesis in the budding process of a colonial ascidian, Botryllus schlosseri*

2:25pm - 2:50pm #46 **Stefano Tiozzo** (Sorbonne Universités, UPMC, CNRS). *Asexual reproduction in Styelidae (Ascidacea): and evo-devo approach*

2:50pm - 3:15pm #47 **Tal Gordon** (Tel-Aviv University). *When One becomes Two - unique regeneration abilities of the solitary ascidians Polycarpa mytiligera*

3:15pm - 3:40pm #48 **William Jeffery** (University of Maryland). *Partial Body Regeneration, Stem Cells, and Regenerative Aging in Ciona*

3:40pm - 4:00pm COFFEE BREAK

4:00pm - 4:50pm: **Session 16 - Anatomical Ontology**

Chair: Patrick Lemaire

4:00pm - 4:25pm #49 **Kohji Hotta** (Keio University). *The ontology of larval and metamorphosis stages in Ciona. I. Development*

4:25pm - 4:50pm #50 **Lucia Manni** (University of Padova). *The ontology of larval and metamorphosis stages in Ciona. II. Anatomy*

Room KC914

5:00pm - 6:45pm

**Round table discussions**  
**Databases - Patrick Lemaire**

#51 **Justine Dardaillon / Matija Brozovic**

#52 **Marc Rius**

**Functional genomics methods & resources - Alberto Stolfi**

#53 **Wei Deng**

6:45pm - 7:00pm

**Closing remarks** - Anna Di Gregorio and Lionel Christiaen

*Rosenthal Pavilion*

7:00pm - 9:00pm

**Farewell banquet**