The 2nd Virtual *Platynereis* conference (8-10 December 2021)

(All times displayed in Central European Time)

8 th of December 2021			
12.00	Access to GatherTown possible		
14.00	Welcome		
Development and Regeneration (Chair: Eve Gazave)			
14.10	B. Duygu Özpolat Marine Biological Laboratory New spin on traditional tools to understand germline development in Platynereis dumerilii		
14.35	Mette Handberg-Thorsager Max Planck Institute of Molecular Cell Biology and Genetics Stereotypicality of the spiralian development		
	Quentin Schenkelaars <i>Aix-Marseille University</i> Histone mark regulations in <i>Platynereis</i> development and regeneration		
15.00	Break		
15.15	Elena Novikova Saint-Petersburg State University; Zoological Institute RAS No head regeneration - why is that?		
	Loïc Bideau Institut Jacques Monod Origin(s) and potency of blastema cells during posterior regeneration in Platynereis dumerilii		
	Bria Metzger <i>Marine Biological Laboratory</i> The impact of amputation on the maturation of <i>Platynereis dumerilii</i>		
	Florian Raible Max Perutz Labs, University of Vienna Decoding Regenerative Plasticity		

16.05

Break

Keynote Lecture

16.20	Christoph Bleidorn University of Göttingen
	Reconstructing annelid phylogeny – past, present and future

Working Group Session 1

(Chair: Nadine Randel and B. Duygu Özpolat)

17.05	Introduction
17.15	WG Cryopreservation Estefania Paredes and Luis Alberto Bezares Calderon
17.35	WG Platynereis culture Cameron Hird
17.40	WG Behavior and reproduction Jorg Hardege
17.45	Questions to working groups
17.55	Concluding remarks
18.00	GatherTown get together (optional)

9th of December 2021

14.00 Welcome

Evolution

(Chair: Mette Handberg-Thorsager)

14.05 **Detlev Arendt** *EMBL*

The evolution of the bilaterian brain

14.30 **Sanja Jasek** *University of Exeter*

Desmosomal connectome of the Platynereis larva

Stephan Q Schneider *Institute of Cellular and Organismic Biology, Academia Sinica, Taipei, Taiwan*

Of cilia and worms: A phylogenomic & evo-devo approach to spiralian evolution

Vinca Yadav *Max Planck Institute of Molecular Cell Biology and Genetics*

Patterns of energy utilisation during early embryonic development of *Platynereis dumerilii*

Gabriele Andreatta *Max Perutz Laboratories, University of Vienna* Molecular mechanisms orchestrating sexual maturation and reproductive timing in *Platynereis*

15.20 **Break**

Ecology

(Chair: Oleg Simakov)

15.35 Elizabeth Williams University of Exeter

Larval settlement in Platynereis

16.00 **Jorg Hardege** *Hull University*

Behavioral ecology of *Platynereis dumerilii* reproduction

Camilla Dellatorre University of Milan Department of Biosciences
The Platynereis spp. as ideal model organism to study adaptation to
ocean acidification: a case study in the CO2 vent system off the
Castello Aragonese at Ischia island (Italy)

Victoria Moris University of Brussels

Impacts of ocean acidification on chemical communication in *Platynereis dumerilii*

Tobias Gerber *EMBL*

Determining hotspots of cellular adaptation in *Platynereis*

16.50 **Break**

Working Group Session 2

(Chair: Nadine Randel and B. Duygu Özpolat)

17.05 WG Ensembl Metazoa

Kevin Nzumbi Mutemi

17.25 **WG Nomenclature of genes**

	Dave Ferrier	
17.30	WG Community website Nadine Randel	
17.35	WG Sharing lists Niko Papadopoulos	
17.40	WG Light microscopy data Mette Handberg-Thorsager and Sanja Jasek	
17.45	Questions to working groups	
17.55	Concluding remarks	
18.00	GatherTown get together (optional)	
10 th of December 2021		
14.00	Welcome	
Neurobiology (Chair: Sanja Jasek)		
14.05	Kristin Tessmar-Raible <i>Max Perutz Labs, University of Vienna</i> Decoding time information from sun and moon	
14.30	Milena Marinković University of Exeter Catecholaminergic signalling in Platynereis trochophores	
	Luis Alberto Bezares Calderón <i>University of Exeter</i> Neuronal mechanism of pressure sensation in <i>Platynereis</i> larvae	
	Kei Jokura <i>University of Exeter</i> The role of nitric oxide signalling in the cPRC circuit	
	Sören Häfker <i>Max Perutz Labs - University of Vienna</i> No worm is like the other - Behavioral and molecular variability in <i>Platynereis</i> strains and individuals	

15.20

Break

<u>Transcriptomics/Genomics session</u>

(Chair: Michel Vervoort)

15.35 **Oleg Simakov** *University of Vienna*

The algebra of animal chromosomes - how ancestral is the genome of *Platynereis*?

16.00 Kevin Nzumbi Mutemi EMBL

The *Platynereis* genome resource: Progress, challenges and future :-)

Madeleine Aase-Remedios University of St Andrews

Homeobox gene complement and organisation in P. dumerilii

Nikolaos Papadopoulos EMBL

Decoding *Platynereis* development: a transcriptomics atlas for 48hpf

Phil Oel EMBL

Hunting for the expected photoreceptor diversity in 6dpf *Platynereis*, using a single nucleus RNAseq atlas

16.50 **Concluding remarks**

17.00 GatherTown social event

We thank the **Company of Biologists** for sponsoring this conference.

