The 2\textsuperscript{nd} Virtual \textit{Platynereis} conference  
(8-10 December 2021)  

(All times displayed in Central European Time)

\textbf{8\textsuperscript{th} of December 2021}

12.00 Access to GatherTown possible

14.00 Welcome

\textbf{Development and Regeneration}  
(Chair: Eve Gazave)

14.10 \textbf{B. Duygu Özpolat} \textit{Marine Biological Laboratory}  
New spin on traditional tools to understand germline development in \textit{Platynereis dumerilii}

14.35 \textbf{Mette Handberg-Thorsager} \textit{Max Planck Institute of Molecular Cell Biology and Genetics}  
Stereotypicality of the spiralian development

\textbf{Quentin Schenkelhaars} \textit{Aix-Marseille University}  
Histone mark regulations in \textit{Platynereis} development and regeneration

15.00 Break

15.15 \textbf{Elena Novikova} \textit{Saint-Petersburg State University; Zoological Institute RAS}  
No head regeneration - why is that?

\textbf{Loïc Bideau} \textit{Institut Jacques Monod}  
Origin(s) and potency of blastema cells during posterior regeneration in \textit{Platynereis dumerilii}

\textbf{Bria Metzger} \textit{Marine Biological Laboratory}  
The impact of amputation on the maturation of \textit{Platynereis dumerilii}

\textbf{Florian Raible} \textit{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
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)**

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**10th of December 2021**

14.00  **Welcome**

**Neurobiology**  
(Chair: Sanja Jasek)

14.05  **Kristin Tessmar-Raible** *Max Perutz Labs, University of Vienna*  
Decoding time information from sun and moon

14.30  **Milena Marinković** *University of Exeter*  
Catecholaminergic signalling in *Platynereis* trochophores

**Luis Alberto Bezares Calderón** *University of Exeter*  
Neuronal mechanism of pressure sensation in *Platynereis* larvae

**Kei Jokura** *University of Exeter*  
The role of nitric oxide signalling in the cPRC circuit

**Sören Häfker** *Max Perutz Labs - University of Vienna*  
No worm is like the other - Behavioral and molecular variability in *Platynereis* strains and individuals

15.20  **Break**
Transcriptomics/Genomics session
(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. dumerillii

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.