Curriculum Vitae

Personal Data

Title	**Dr. rer. nat.**
First name	**Giorgos**
Name	**Pyrowolakis**
Current position	Researcher and Lecturer
Current institution(s)/site(s), country	Biology I, Faculty of Biology, University of Freiburg Germany
Identifiers/ORCID	https://orcid.org/0000-0002-2142-5943

Qualifications and Career

Stages	**Periods and Details**
Degree programme	Biology,1990-1996, University of Heidelberg, Heidelberg, Germany
Doctorate	2000, Dr. rer.nat., supervisor: Prof. Dr. Stefan Jentsch, ubiquitin/proteasomal protein degradation, ZMBH, University of Heidelberg and MPI for Biochemistry, Martinsried, Germany
Stages of academic/professional career	Since 2019: Permanent research and lecturer position, Institute for Biology 1, University of Freiburg, Freiburg, Germany 2014-2019: Research group leader, BIOSS, University of Freiburg, Freiburg, Germany 2011-2014: akad. Rat, Institute for Biology I, University of Freiburg, Freiburg, Germany 2006-2011: Junior research group leader, SFB592 “Signaling Mechanisms in Embryogenesis and Organogenesis”, University of Freiburg, Freiburg, Germany 2002-2006: Post-doctoral fellow, supervisor: Prof. Dr. Markus Affolter, Biozentrum, University of Basel, Switzerland

Supplementary Career Information

2000-2002: compulsory military service, Greek army, Greece

Activities in the Research System

Since 2016: Executive board member of the International Max-Planck Research School for Molecular and Cell Biology (IMPRS-MCB, now IMPRS-EBM), Freiburg, Germany

Since 2014: Founding member of the Tri-national DevStemCell Network and co-organizer of the annual Network meeting

Since 2010: Member of the International Max-Planck Research School for Molecular and Cell Biology (IMPRS-MCB, now IMPRS-EBM), Freiburg, Germany

Since 2009: Executive board member of the Spemann Graduate School of Biology and Medicine (SGBM), University of Freiburg, Germany

2008-2013: Member of the Research training Program GRK1104 “From Cells to Organs: Molecular Mechanisms of Organogenesis”, University of Freiburg, Germany

Since 2008: PI in the Spemann Graduate School of Biology and Medicine (SGBM)

2008-2013: Member of the Research training Program GRK1104 “From Cells to Organs: Molecular Mechanisms of Organogenesis”, University of Freiburg, Germany

Since 2007: Member of BIOSS, Centre for Biological Signalling Studies, University of Freiburg, Freiburg, Germany

2006-2016: Junior research group leader in SFB592, “Signaling mechanisms in embryogenesis and organogenesis” University of Freiburg, Freiburg, Germany

Since 2002 Reviewer activity for DFG, Welcome Trust, Israel Science Foundation, Nature, Science, Dev. Cell, Cell reports, Nature Comm., Nature Cell Biology, Development, Dev. Biology, PLOS Biol. and others

Supervision of Researchers in Early Career Phases

Supervision of 4 doctoral dissertations, 5 Masters dissertations, 4 Bachelor dissertations (within the last 5 years and ongoing).

Scientific Results

Category A

(* equal contribution, # corresponding author)

1. A genome-engineered tool set for Drosophila TGF-β/BMP signaling studies. Ell CM*#, Safyan A*, Chayengia M, Kustermann MMM, Lorenz J, Schächtle M, and Pyrowolakis G# (2024). **Development** 151(22):dev204222. doi: 10.1242/dev.204222 (OA)

2. Dally is not essential for Dpp spreading or internalization but for Dpp stability by antagonizing Tkv-mediated Dpp internalization. Simon N*, Safyan A*, Pyrowolakis G# and Matsuda S# (2024). **Elife** 12:RP86663. doi: 10.7554/eLife.86663 (OA)

3. Dichotomous *cis* -regulatory motifs mediate the maturation of the neuromuscular junction by retrograde BMP signaling. Vuilleumier R, Miao M, Medina-Giro S, Ell CM, Flibotte S, Lian T, Kauwe G, Collins A, Ly S, Pyrowolakis G, Haghighi AP, Allan DW (2022). **Nucleic Acids Research** 50(17):9748-9764. doi: 10.1093/nar/gkac730

4. Protein manipulation using single copies of short peptide tags in cultured cells and in Drosophila melanogaster. Vigano MA*#, Ell CM*, Kustermann MMM, Aguilar G, Matsuda S, Zhao N, Stasevich TJ, Affolter M, Pyrowolakis G# (2021). **Development** 148(6):dev191700. doi: 10.1242/dev.191700 (OA)

5. Sequence environment of BMP-dependent activating elements controls transcriptional responses to Dpp signaling in Drosophila. Chayengia M, Veikkolainen V, Jevtic M, and Pyrowolakis G (2019). **Development** 146(11):dev176107. doi: 10.1242/dev.176107 (OA)

6. AWD regulates timed activation of BMP signaling in intestinal stem cells to maintain tissue homeostasis. Cai X, Li H, Safyan A, Gawlik J, Pyrowolakis G, and Jasper H (2019). **Nature Communications** 10(1):2988. doi: 10.1038/s41467-019-10926-2 10. (OA)

7. Pentagone internalizes glypicans to fine-tune multiple signalling pathways. Norman M, Vuilleumier R, Springhorn A, Gawlik J, and Pyrowolakis G (2016). **Elife** 5:e13301. doi: 10.7554/eLife.13301. 5. (OA)

8. The Dpp/TGFβ-dependent corepressor Schnurri protects epithelial cells from JNK-induced apoptosis in drosophila embryos. Beira JV, Springhorn A, Gunther S, Hufnagel L, Pyrowolakis G, and Vincent JP (2014) **Developmental Cell** 31(2):240-7. doi: 10.1016/j.devcel.2014.08.015

9. Expansion-Repression Mechanism for Scaling the Dpp Activation Gradient in Drosophila Wing Imaginal Discs. Ben-Zvi D, Pyrowolakis G, Barkai N, and Shilo BZ (2011). **Current Biology** 21(16):1391-6. doi: 10.1016/j.cub.2011.07.015

10. Control of Dpp morphogen signalling by a secreted feedback regulator. Vuilleumier R, Springhorn A, Patterson L, Koidl S, Hammerschmidt M, Affolter M, and Pyrowolakis G (2010). **Nature Cell Biology** 12(6):611-7. doi: 10.1038/ncb2064.

Academic Distinctions

2006	Appointment as an independent junior group leader at the SFB592
2004-2006	EMBO long term postdoctoral fellowship
2002-2003	Roche Research foundation postdoctoral fellowship
2000	PhD awarded with “summa cum laude”
1996	Diploma awarded with “sehr gut”