Valentin Flury
Swiss

Institution: Max Planck Institute of Immunobiology and Epigenetics
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Position: Group Leader

Academic education including academic degrees

Scientific graduation

2013-2017 Ph.D. in Biochemistry

Graduate Student in Marc Bühler laboratory, Friedrich Miescher Institute, University of Basel, Switzerland (*summa cum laude)*

Thesis Project: Novel insights into mechanisms partitioning chromatin states.

2010-2012 M.Sc. in Molecular Life Sciences, University of Bern, Switzerland (*summa cum laude*). Master thesis project in Oliver Mühlemann laboratory.

Thesis Project: Quantitative interactomics of UPF1

2007-2010 B.Sc. in Biochemistry and Chemical Biology, University of Bern, Switzerland *(summa cum laude*)

Employment

Since 2024 Group Leader, Max Planck Institute of Immunology and Epigenetics, Freiburg, Germany

2018-2024 Postdoctoral Marie Sklodowska-Curie and EMBO Fellow in Anja Groth laboratory, NNF Centre for Protein Research (CPR) & Biotech Research and Innovation Center (BRIC), University of Copenhagen, Denmark

Awards and honours

2019 Marie Sklodowska-Curie European Fellowship

2018 EMBO post-doctoral Long-Term Fellowship

2018 Swiss National Foundation Early.Postdoc Mobility Fellowship (*gratefully declined)*

2017 Ed Fischer Prize for outstanding PhD work at the FMI

2016 Travel Grant LS^2 to attend EMBO Workshop

2013-2017 FMI PhD Fellowship

Other activities

Since 2024 Lecturer for 3rd year Bachelor students in Biology

Since 2015 Peer-reviewer for Nature, Science, Molecular Cell, Genes & Development (with former supervisors) as well as Nature Genetics, Cell Reports, Nature Communications, JoVE (independent)

2015-2024 Supervisor of seven Bachelor/Master students and one PhD student

2019 Co-organiser of ENABLE Conference (~250 participants) in Nijmegen, Netherlands

2010-2012 Teaching assistant in Biochemistry Practical Course for Bachelor students

2010 Teaching assistant for 1st year laboratory technician trainees

Ten most important publications

1. The fork protection complex promotes parental histone recycling and epigenetic memory. Charlton SJ*, ***Flury V****, Kanoh Y, Genzor AV, Kollenstart L, Ao W, Brøgger P, Weisser MB, Adamus M, Alcaraz N, Delvaux de Fenffe CM, Mattiroli F, Montoya G, Masai H, Groth A, Thon G. Cell. *2024* Sep 5;187(18):5029-5047.e21. doi: 10.1016/j.cell.2024.07.017

2. Safeguarding the epigenome through the cell cycle: a multitasking game. ***Flury V***, Groth A. Curr Opin Genet Dev. *2024* Apr;85:102161. doi: 10.1016/j.gde.2024.102161

3. Symmetric inheritance of parental histones governs epigenome maintenance and embryonic stem cell identity. Wenger A*, Biran A*, Alcaraz N*, Redó-Riveiro A*, Sell AC, Krautz R, ***Flury V***, Reverón-Gómez N, Solis-Mezarino V, Völker-Albert M, Imhof A, Andersson R, Brickman JM, Groth A. Nat Genet. *2023* Sep;55(9):1567-1578. doi: 10.1038/s41588-023-01476-x

4. Recycling of modified H2A-H2B provides short-term memory of chromatin states. ***Flury V***, Reverón-Gómez N, Alcaraz N, Stewart-Morgan KR, Wenger A, Klose RJ, Groth A. Cell. *2023* Mar 2;186(5):1050-1065.e19. doi: 10.1016/j.cell.2023.01.007

5. Quantifying propagation of DNA methylation and hydroxymethylation with iDEMS. Stewart-Morgan KR*, Requena CE*, ***Flury V***, Du Q, Heckhausen Z, Hajkova P, Groth A. Nat Cell Biol. *2023* Jan;25(1):183-193. doi: 10.1038/s41556-022-01048-x

6. NASP maintains histone H3-H4 homeostasis through two distinct H3 binding modes. Bao H*, Carraro M*, ***Flury V***, Liu Y, Luo M, Chen L, Groth A, Huang H. Nucleic Acids Res. *2022* May 20;50(9):5349-5368. doi: 10.1093/nar/gkac303

7. Accurate Recycling of Parental Histones Reproduces the Histone Modification Landscape during DNA Replication. Reverón-Gómez N*, González-Aguilera C*, Stewart-Morgan KR*, Petryk N, ***Flury V***, Graziano S, Johansen JV, Jakobsen JS, Alabert C, Groth A. Mol Cell. *2018* Oct 18;72(2):239-249.e5. doi: 10.1016/j.molcel.2018.08.010

8. The Histone Acetyltransferase Mst2 Protects Active Chromatin from Epigenetic Silencing by Acetylating the Ubiquitin Ligase Brl1. ***Flury V***, Georgescu PR, Iesmantavicius V, Shimada Y, Kuzdere T, Braun S, Bühler M. Mol Cell. *2017* Jul 20;67(2):294-307.e9. doi: 10.1016/j.molcel.2017.05.026

9. The Paf1 complex represses small-RNA-mediated epigenetic gene silencing. Kowalik KM*, Shimada Y*, ***Flury V***, Stadler MB, Batki J, Bühler M. Nature. *2015* Apr 9;520(7546):248-252. doi: 10.1038/nature14337

10. Characterization of phosphorylation- and RNA-dependent UPF1 interactors by quantitative proteomics. ***Flury V***, Restuccia U, Bachi A, Mühlemann O. J Proteome Res. *2014* Jun 6;13(6):3038-53. doi: 10.1021/pr5002143