

CURRICULUM VITAE

Dr. Sebastian Glatt

Max Planck Research Group Leader

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Education & Research Experience

02/2019 – presence	<i>Deputy Director for Science</i>	MCB/UJ Krakow, PL
10/2018 – presence	<i>Head of the National Cryo-EM Facility</i>	Solaris/UJ Krakow, PL
09/2015 – presence	<i>Max Planck Research Group Leader</i>	MCB/UJ Krakow, PL
01/2013 – 08/2015	<i>Staff Scientist</i>	EMBL Heidelberg, DE
01/2011 – 12/2012	<i>Postdoctoral Fellow</i> Christoph W. Müller	EMBL Heidelberg, DE
01/2008 – 01/2011	<i>Postdoctoral Fellow</i> <i>EMBL Interdisciplinary Postdoc Fellowship</i> Christoph W. Müller Claus Nerlov	EMBL Heidelberg, DE EMBL Monterotondo, IT
04/2004 – 10/2007	<i>PhD (Doktor rer.nat. with Distinction)</i> Boehringer Ingelheim Exploratory Research/University of Vienna, AT Wolfgang Sommergruber, Norbert Kraut	
09/1999 – 02/2004	<i>M.Sc. (Magister rer. nat. with Distinction) in Genetics and Microbiology</i> Boehringer Ingelheim Exploratory Research/University of Vienna, AT Michael Gmachi, Wolfgang Sommergruber, Norbert Kraut	

Scientific Awards, Fellowships and Grants

- Rector's Prize of the Jagiellonian University 2018
- NCN Opus 16 (Project leader, 2019 – 2022; 475k €)
- FNP Team Tech Core Facility (Project leader, 2018 – 2023; 1.070k €)
- FNP Homing 2 (Research Partner, 2018 – 2020; 190k €)
- FNP First Team 1 (Project leader, 2016 – 2020; 825k €)
- NCN Polonez 1 (Research partner, 2016 – 2018; 210k €)
- NCN Opus 10 (Project leader, 2016 – 2020; 390k €)
- EMBO Installation Grant 2015 (Project leader, 2016 – 2021; 285k €)
- EMBL Interdisciplinary Postdoc Fellowship MCAA (2008 – 2011)

Boards and Scientific Societies

- Committee on Crystallography of the Polish Academy of Sciences
- Member of the MCB Board
- EMBO IG/YIP
- Elected Member of the Young Academy of Europe (YAE)
- Chair of the EMBL Postdoc Association 2009 – 2011

Publication list H-Index 15, i10-Index 19, 813 citations

31 publications (incl. 7 reviews and 1 book chapter), 18 lead authorships, *shared contribution,

1. Pabis M*, Termathe M*, Ravichandran KE*, Kienast SD, Krutyhołowa R, Sokołowski M, Jankowska U, Grudnik P, Leidel SA* and **Glatt S***; *Molecular basis for the bifunctional Uba4-Urm1 sulfur relay system in tRNA thiolation and ubiquitin-like conjugation*; **EMBO J** (in press)
2. Chakraborti S, Lin TY, **Glatt S** and Heddle JG; *Enzyme encapsulation by protein cages*; **RSC Adv.** 2020; Apr 1
3. Krutyhołowa R, Reinhardt-Tews A, Chramiec-Głąbik A, Breunig KD, **Glatt S**; *Fungal Kti12 proteins display unusual linker regions and unique ATPase p-loops*, **Curr Genet.** 2020 Mar 31.
4. Brachmann C*, Kaduhr L*, Jüdes A*, Ravichandran KE, West J, **Glatt S** and Schaffrath R; *Redox requirements for ubiquitin-like urmylation of Ahp1, a 2-Cys peroxiredoxin from yeast*, **Redox Biology** 2020 Feb;30
5. Dauden MI, Jaciuk M, Weis F, Lin TY, Kleindienst C, El Abbassi N, Krutyhołowa R, Breunig K, Kosinski J*, Müller CW* and **Glatt S***, tRNA recognition by the active site of Elongator; **Science Advances** 2019 Jul;5(7)
6. Krutyhołowa R*, Zakrzewski K* and **Glatt S**; Structure and Function of tRNA modifiers; **Curr Opin Struct Biol.** 2019; Apr;55:138-146
7. Krutyhołowa R*, Hammermeister A*, Zabel R, Abdel-Fattah W, Helm M, Breunig K, Schaffrath R* and **Glatt S***, Kti12 is a tRNA dependent ATPase; **Nucleic Acids Res.** 2019 May 21;47(9)
8. Lin TY, El Abbassi N, Krutyhołowa R, Zakrzewski K, Chramiec-Głąbik A, Jemioła-Rzemińska M, Różycki J and **Glatt S**; The Elongator subunit Eip3 is a non-canonical tRNA acetyltransferase; **Nat Comm** 2019 Feb;10(1)
9. Hawer H*, Hammermeister A*, Ravichandran KE*, **Glatt S**, Schaffrath R, Klassen R, Roles of Elongator Dependent tRNA Modification Pathways in Neurodegeneration and Cancer; **Genes** 2018 Dec 28;10(1)
10. Kojic M, Gaik M, Kiska B, Salerno-Kochan A, Hunt S, Tedoldi A, Mureev S, Jones A, Whittle B, Genovesi LA, Adolphe C, Brown DL, Stow JL, Alexandrov K, Sah P, **Glatt S***, Wainwright BJ*; Elongator mutation in mice induces neurodegeneration and ataxia-like behavior; **Nat Comm.** 2018 Aug;9(1)
11. Lin TY and **Glatt S**, *tRNA modification by Elongator protein 3 (Eip3)*, Encyclopedia of Inorganic and Bioinorganic Chemistry 2018 (book chapter)
12. Sokołowski M*, Klassen R*, Bruch A, Schaffrath R, **Glatt S**; *Cooperativity between different tRNA modifications and their modification pathways*; **Biochim Biophys Acta.** 2018 Apr;1861(4)
13. Dauden MI*, Jaciuk M*, Müller CW, **Glatt S**; *Structural asymmetry in the eukaryotic Elongator complex*, **FEBS Lett.** 2017 Sep;592(4)
14. Mehlgarten C, Prochaska H, Hammermeister A, Abdel-Fattah W, Wagner M, Krutyhołow R, Jun SE, Kim GT, **Glatt S**, Breunig KD, Stark MJR, Schaffrath R; *Use of a yeast tRNase killer toxin to diagnose Kti12 2 motifs required for tRNA modification by Elongator*, **Toxins** 2017 Sep;9(9).
15. Dauden MI, Kosinski J, Kolaj-Robin O, Desfosses A, Ori A, Faux C, Hoffmann NA, Onuma OF, Breunig KD, Beck M, Sachse C, Seraphin B, **Glatt S***, Müller CW*; *Architecture of the yeast Elongator complex*, **EMBO Rep.** 2017 Feb;18(2)
16. **Glatt S**, Zabel R, Kolaj-Robin O, Onuma OF, Baudin F, Graziadei A, Taverniti V, Lin TY, Baymann F, Séraphin B, Breunig KD, Müller CW; *Structural basis for tRNA modification by Eip3 from *Dehalococcoides mccartyi**. **Nat Struct Mol Biol.** 2016 Sep;23(9)
17. Luna-Zurita L, Stirnimann CU, **Glatt S**, Kaynak BL, Thomas S, Baudin F, He D, Small EM, Mileikovsky M, Holloway AK, Nagy A, Pollard KS, Müller CW & Bruneau BG; *Cooperative interactions and locus tethering as the basis for regulation of cardiogenesis by heterotypic transcription factors*; **Cell** 2016 Feb 25; 164 (5)
18. Silva-Martin N, Daudén MI, **Glatt S**, Hoffmann NA, Kastritis P, Bork P, Beck M and Müller CW.; *The combination of X-ray crystallography and cryo-electron microscopy provides insight into the overall architecture of the dodecameric Rvb1/Rvb2 complex*; **PLoS One** 2016 Jan 8; 11 (1)

19. Hoffmann NA, Jakobi AJ, Moreno-Morcillo M, **Glatt S**, Kosinski J, Hagen WJH, Sachse C, Müller CW; *Molecular structures of unbound and transcribing RNA polymerase III*; **Nature** 2015 Dec 10; 528 (7581)
20. Jeske M, Bordi M, **Glatt S**, Müller S, Rybin V, Müller CW and Ephrussi A; *The crystal structure of the Drosophila germ line-inducer Oskar identifies two domains with distinct Vasa helicase- and RNA-binding activities*; **Cell Rep.** 2015 Jul 28; 12(4)
21. Male G, von Appen A, **Glatt S**, Taylor NMI, Cristovao M, Groetsch H, Beck M and Müller CW; *Architecture of TFIIC and the role of τ 131 in RNA polymerase III pre-initiation complex assembly*; **Nat Comm.** 2015 June 10; 6
22. **Glatt S***, Zabel R*, Vonkova I, Kumar A, Netz D, Pierik A, Lill R, Gavin AC, Balbach J, Breunig KD, Müller CW; *Kti11/Kti13 structure reveals its dual role in Elongator dependent tRNA modification and diphthamide biosynthesis*; **Structure** 2015 Jan 6; 23(1)
23. Singh B, **Glatt S**, Ferrer JL, Dunder J, and Hansman GS; *Structural implications of feline norovirus protruding domain*; **Virology** 2015 Jan 1; 474
24. Alfieri C, Gambetta MC, Matos R, **Glatt S**, Sehr P, Fraterman S, Wilm M, Müller J. & Müller CW; *Structural basis for targeting the chromatin repressor Sfmbt to Polycomb response elements*; **Genes Dev.** 2013 Nov 1;27(21)
25. Taylor NM, **Glatt S**, Hennrich ML, von Scheven G, Grotsch H, Fernandez-Tornero C, Rybin V, Gavin AC, Kolb P & Müller CW; *Structural and functional characterization of a phosphatase domain within yeast general transcription factor IIIC*; **J Biol Chem.** 2013 May 24;288(21)
26. **Glatt S**, Müller CW; *Structural insights into Elongator function*; **Curr Opin Struct Biol.** 2013 Apr;23(2)
27. **Glatt S**, Séraphin B, Müller CW; *Elongator: transcriptional or translational regulator?* **Transcription.** 2012 Aug 14;3(6)
28. **Glatt S**, Létoquart J, Faux C, Taylor N, Séraphin B and Müller CW; *The Elongator subcomplex Elp456 is a hexameric RecA-like ATPase*; **Nat Struct Mol Biol.** 2012 Feb 19;19(3);
29. **Glatt S**, Alfieri C, Müller CW; *Recognizing and remodeling the nucleosome*; **Curr Opin Struct Biol.** 2011 Jun; 21(3)
30. **Glatt S**, Halbauer D, Heindl S, Wernitznig A, Kozina D, Su KC, Puri C, Garin-Chesa P, Sommergruber W; *hGPR87 contributes to viability of human tumor cells*; **Int J Cancer.** 2008 May 1; 122(9);
31. Dohnal AM, Inthal A, Felzmann T, **Glatt S**, Sommergruber W, Mann G, Gadner H and Panzer-Grümayer ER; *Leukemia-associated antigenic isoforms induce a specific immune response in children with T-ALL*; **Int. J. Cancer.** 2006: Dec 15;119(12)

Patents & Patent Applications

- **Glatt S**, Sommergruber W, Haslinger C, Stratowa C, Garin-Chesa P; Patent Application #EP06120540.7, "Inhibitors of GPR87 for cancer therapy"; March 2008

Selected Lectures, Meetings and Conference Presentations

- University of Bern, Bern, Switzerland 2020 (invited speaker)
- EMBL Hamburg, Hamburg, Germany 2019 (invited speaker)
- Symposium of the Polish Bioinformatics Society, Krakow, Poland 2019 (keynote speaker)
- FEBS Congress, Krakow, Poland 2019 (invited speaker)
- RNA Conference, Krakow, Poland 2019 (selected speaker)
- Max Planck Annual Meeting 2019, Munich, 2019 (invited speaker)
- AEGIS Meeting, Krakow, Poland 2019 (invited speaker)
- Elettra Synchrotron, Trieste, Italy 2019 (invited speaker)
- IFB Gdansk, Poland 2019 (invited speaker)
- CeNT, Warsaw, Poland 2019 (invited speaker)
- KISS Meeting, Krakow, Poland 2019 (invited speaker)

- MPI Muenster, Germany 2018 (invited speaker)
- Electron Microscopy Technology, Krakow, Poland 2018 (invited speaker)
- Nanotemper Workshop, Krakow, Poland 2018 (invited speaker)
- EMBO YIP Meeting, IMP, Vienna, Austria 2018
- PhosMOrg Symposium 2018, Kassel, Germany 2018 (invited speaker)
- RNA Salon Poznan, UAM, Poznan, Poland 2017 (invited speaker)
- NCN Info meeting for research in Poland, Paris, France 2017 (invited speaker)
- 6th EUROBIOTECH Congress, Krakow, Poland 2017 (keynote speaker)
- International Conference on Electron Microscopy, Jachranka, Poland 2017 (keynote speaker)
- Politechnika Łódzka University of Technology, Łódz, Poland 2017 (invited speaker)
- EMBO Structural & RNA Sectorial Meetings, Heidelberg, Germany 2017 (invited speaker)
- SMM Spring School of Molecular Medicine, Warsaw, Poland 2017 (invited speaker)
- RNA Club Warsaw, Warsaw, Poland, 2017 (invited speaker)
- Workshop for Computational & Structural Biology, Serock, Poland 2017 (invited speaker)
- University of Göttingen, Germany 2017 (invited speaker)
- University of Bonn, Germany 2017 (invited speaker)
- University of Warsaw/CENT III, Warsaw, Poland 2016 (invited speaker)
- Nencki Institute, Warsaw, Poland 2016 (invited speaker)
- International Student Conference of Cell Biology, Krakow, Poland 2016 (plenary speaker)
- EMBO Workshop on Computational Biology, Jablonna, Poland 2016 (invited speaker)
- International Institute of Molecular and Cell Biology, Warsaw Poland, 2016 (invited speaker)
- Winter School Department of Medical Biotechnology UJ, Rytro, Poland 2016 (invited speaker)
- University of Halle, Halle/Saale, Germany 2015 (invited speaker)
- University of Kassel, Kassel, Germany 2015 (invited speaker)
- German Cancer Research Center, Heidelberg, Germany 2015 (invited speaker)
- Laboratory of Molecular Biology, Cambridge, UK 2015 (invited speaker)
- tRNA Conference 2014, Kyllini, Greece 2014 (selected speaker)
- EMBO Conference on Molecular Machines, Heidelberg, Germany 2014 (selected speaker)

Other Responsibilities

- Coordinator of the MCB Core Facilities
- Head of the MCB Media Kitchen
- Organizer and Coordinator of MCB Seminar Series
- Head of the EMBL Heidelberg High-Throughput Crystallization Facility (2010 - 2015)
- Regular reviewing activities for NCN, FNP, FWO, ANR, NSERC, NAR, RNA, Nat Comm, Scientific Reports, BBA, CMLS, Biochemistry, Biomolecules, PLOS Genetics, IJMS, Human Mutation and others

Meeting Organization

- EMBO YIP RNA/Structural Sectorial Meeting 2020 (main organizer)
- 1st Elongator Meeting, MCB, Krakow, Poland 2018 (main organizer)
- SMM Autumn School 2018, Krakow, Poland 2018 (main organizer)
- RNA Conference 2019, Krakow, Poland (co-organizer of the tRNA workshop)
- 2nd Symposium on recent advance in Cryo-Electron Microscopy, Krakow, Poland 2019 (main organizer)
- EMBL Postdoc Retreat (Main Organizer 2009 and 2010, Co-organizer 2008 and 2011)

Open Science, public lectures and outreach articles

- Boost Biotech Poland, Krakow, Poland (invited speaker)
- Kids University 2017 and 2018
- UJ Science Night, 217, 2018 and 2019
- "Let's not waste this chance" **Lab Times** 4, 2016
- Numerous articles in **Nature** (2017, "Poland: Into the light"), **EMBO encounters**, **Alma Mater** and local newspapers other about the lab and our research activities