

Théo Gervais

✉ theo.gervais@normalesup.org

🏠 Citizenship : French | Residency : Switzerland

Research experience

- 10/2024 – 06/2025 📌 Grant writing, postdoctorate search
- 11/2023 – 09/2024 📌 **Postdoctorate** in Prof. Dr. Erik van Nimwegen laboratory, Biozentrum der Universität Basel, Switzerland. Research area : Computational biology.
- 09/2018 – 11/2023 📌 **Ph.D.** in Prof. Dr. Erik van Nimwegen laboratory, Biozentrum der Universität Basel, Switzerland. Research area : Computational biology.
Thesis title: *Bacterial gene expression dynamics in the regime of vanishing growth*.
Supervisors : Dr. Thomas Julou (Main), Prof. Dr. Erik van Nimwegen (First), Prof. Dr. Urs Jenal (Second), Prof. Dr. Nathalie Q Balaban (External expert).
- 01/2017 – 08/2017 📌 **Master internship.** Prof. Dr. Erik van Nimwegen laboratory, Biozentrum of Basel University, Basel, Switzerland.
Supervisor : Dr. Thomas Julou.
- 02/2016 – 08/2016 📌 **Master internship.** Dr. Kyung-Min Noh laboratory, European Molecular Biology Laboratory (EMBL), Heidelberg, Germany.
Supervisor : Dr. Aurelien Serandour
- 06/2015 – 07/2015 📌 **Bachelor internship.** Dr. Alice Lebreton laboratory, Institut de Biologie de l'École Normale Supérieure (IBENS), Paris, France.
Supervisor : Dr. Alice Lebreton

Education

- 09/2018 – 11/2023 📌 **PhD. , Biozentrum der Universität Basel** Computational biology.
Thesis title: *Bacterial gene expression dynamics in the regime of vanishing growth*.
Promoted on November 27th 2023 (Grade : 6.0 - Summa cum laude).
- 09/2015 – 08/2017 📌 **MSC. Interdisciplinary Master's in Life Sciences, Institut de Biologie de l'École Normale Supérieure (IBENS), Paris, France.** Master in Molecular Biology, and "Genome analysis" Pasteur course.
Promoted on July 18th 2017 (Grade : Highest honor).
- 09/2014 – 07/2015 📌 **BSC. Bachelor Molecular Biology, Institut de Biologie de l'École Normale Supérieure (IBENS), Paris, France.**
- 09/2012 – 06/2014 📌 **BCPST CPGE ('Classes préparatoires'), Lycée Malherbe, Caen, France.** Intensive undergraduate education on biology, chemistry, geology, physics and mathematics.

Fellowships/Grants

- 09/2018 – 11/2021 📌 **Biozentrum Basel International PhD Fellowships Program**
- 09/2025 – 08/2027 📌 **EMBO Postdoctoral Fellowship**

Research Publications

- 1 **T. Gervais**, B. Kscheschinski, M. Mell, N. Goepfert, E. v. Nimwegen, and T. Julou, "E. coli prepares for starvation by dramatically remodeling its proteome in the first hours after loss of nutrients," en, Pages: 2024.02.29.582700. [DOI: 10.1101/2024.02.29.582700](https://doi.org/10.1101/2024.02.29.582700).

- 2 T. Julou, **T. Gervais**, D. de Groot, and E. van Nimwegen, “Growth rate controls the sensitivity of gene regulatory circuits,” eng, *Science Advances*, vol. 11, no. 17, eadu9279, Apr. 2025, ISSN: 2375-2548.  DOI: 10.1126/sciadv.adu9279.
- 3 M. Sobota, P. N. Rodilla Ramirez, A. Cambré, *et al.*, “The expression of virulence genes increases membrane permeability and sensitivity to envelope stress in *Salmonella Typhimurium*,” *PLoS biology*, vol. 20, no. 4, e3001608, Apr. 2022, ISSN: 1545-7885.  DOI: 10.1371/journal.pbio.3001608.

Skills

Languages	 English: Proficient; German: Conversational; French: Mother tongue.
Computing	 R, \LaTeX , Bash, HPC environment
Laboratory skills	 Standard microbiology techniques, bacterial genetics, microfluidics, fluorescence microscopy