

## Lauréates et lauréats - Prix Schläfli

32. *Prix Schläfli Physics 2025* : Dr **Martin F. Sarott**. 2024. Reversible Optical Control of Polarization in Epitaxial Ferroelectric Thin Films. *Advanced Materials*. 36, 2312437.  
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31. *Prix Schläfli Geosciences 2025*: Dr **Simona Meiler**. 2023. Uncertainties and sensitivities in the quantification of future tropical cyclone risk. *Communications. earth & environment*. 4(1), Article 1  
<https://doi.org/10.1038/s43247-023-00998-w>
30. *Prix Schläfli Chemistry 2025*: Dr **Hyun Suk Wang**. 2024. Controlled radical depolymerization: Structural differentiation and molecular weight control. *Chem*. 10, 388-401.  
<https://doi.org/10.1016/j.chempr.2023.09.027>
29. *Prix Schläfli Biology 2025*: Dr **Ewa Merz**. 2023. Disruption of ecological networks in lakes by climate change and nutrient fluctuations. *Nature Climate Change*, 13: 389-396.  
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28. *Prix Schläfli Mathematics 2024* : Dr **Jonathan Gruber**. 2024. Generic direct summands of tensor products for simple algebraic groups and quantum groups at roots of unity. PhD EPFL
27. *Prix Schläfli Geosciences 2024* : Dr **Gilles Antoniazza**. 2023. Anatomy of an Alpine Bedload Transport Event: A Watershed- Scale Seismic-Network Perspective. *Journal of Geophysical Research: Earth Surface*, 128(8). <https://doi.org/10.1029/2022JF007000>
26. *Prix Schläfli Chemistry 2024* : Dr **Julia C. Reisenbauer**. 2022. Late-stage diversification of indole skeletons through nitrogen atom insertion. *Science* 377, pp. 1104-1109. DOI:  
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25. *Prix Schläfli Biology 2024* : Dr **Gabriel Jorgewich-Cohen**. 2022. Common evolutionary origin of acoustic communication in choanate vertebrates. *Nature Communications* 13(1), pp.1-7  
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24. *Prix Schläfli Geosciences 2023* : Dr **Ariadni Georgetou**. 2022. Deep to Shallow Sulfide Saturation at Nisyros Active Volcano: Geochemistry, Geophysics, Geosystems, 23, 2,  
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23. *Prix Schläfli Chemistry 2023* : Dr **Michelle Frei**. 2022. Engineered HaloTag variants for fluorescence lifetime multiplexing. *Nature Methods* (19) 65-70.  
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22. *Prix Schläfli Biology 2023* : Dr **Joël Bloch**. 2020. Structure and mechanism of the ER-based glucosyltransferase ALG6. *Nature* (579) 443-447. <https://doi.org/10.1038/s41586-020-2044-z>
21. *Prix Schläfli Astronomy 2023* : Dr **Simone Bavera**. 2020. The origin of spin in binary black holes. Predicting the distributions of the main observables of Advanced LIGO. *A&A*, 635:A97.  
<https://doi.org/10.1051/0004-6361/201936204>
20. *Prix Schläfli Physics 2022*: Dr **Natasha Tomm**. 2021. A bright and fast source of coherent single photons. *Nature Nanotechnology* 16, 399  
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19. *Prix Schläfli Geosciences 2022*: Dr **Luca Dal Zilio**. 2020. Slab Rollback Orogeny model: A test of concept. *Geophysical Research Letters*, 47, e2020GL089917.  
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18. *Prix Schläfli Chemistry 2022*: Dr **Philippe Schwaller**. 2021. Extraction of organic chemistry grammar from unsupervised learning of chemical reactions. *Science Advances* 7: eabe4166 DOI: [10.1126/sciadv.abe4166](https://doi.org/10.1126/sciadv.abe4166)
17. *Prix Schläfli Biology 2022*: Dr **Anna-Katharina Pfitzner**. 2020. An ESCRT-III polymerization sequence drives membrane deformation and fission. *Cell*. 182(5):1140-1155.e18. <https://doi.org/10.1016/j.cell.2020.07.021>
16. *Prix Schläfli Mathematics 2021*: Dr **Gabriel Dill**. 2020. Unlikely Intersections with Isogeny Orbits. PhD. University of Basel.
15. *Prix Schläfli Geosciences 2021*: Dr **Fabian Mahrt**. 2020. *The Impact of Cloud Processing on the Ice Nucleation Abilities of Soot Particles at Cirrus Temperatures*. *Journal of Geophysical Research: Atmosphere*: 125
14. *Prix Schläfli Chemistry 2021*: Dr **Claudia Aloisi**. 2020. *Sequence-Specific Quantitation of Mutagenic DNA Damage via Polymerase Amplification with an Artificial Nucleotide*. *Journal of the American Chemical Society*: 142: 6962–6969.
13. *Prix Schläfli Biology 2021*: Dr **Gregor Weiss**. 2020. *Architecture and function of human uromodulin filaments in urinary tract infections*. *Science*: 369: 1005-1010
12. *Prix Schläfli Geosciences 2020*: Dr **Fabian Rey**. 2018. Causes and mechanisms of synchronous succession trajectories in primeval Central European mixed *Fagus sylvatica* forests. *Journal of Ecology*: 107: 1392-1408.
11. *Prix Schläfli Chemistry 2020*: Dr **Robert Pollice**. 2019. Origin of the Immiscibility of Alkanes and Perfluoroalkanes. *Journal of the American Chemical Society* 141: 3489-3506.
10. *Prix Schläfli Biology 2020*: Dr **Alice Berhin**. 2019. The Root Cap Cuticle: A Cell Wall Structure for Seedling Establishment and Lateral Root Formation. *Cell* 176: 1367-1378.
9. *Prix Schläfli Astronomy 2020*: Dr **Oliver Müller**. 2018. A whirling plane of satellite galaxies around Centaurus A challenges cold dark matter cosmology. *Science* 359: 534-537.
8. *Prix Schläfli Physics 2019*: Dr **Matteo Fadel**. 2018. Spatial entanglement patterns and Einstein-Podolsky-Rosen steering in Bose-Einstein condensates. *Science* 360: 409-413.
7. *Prix Schläfli Geosciences 2019*: Dr **Julie Zaehring**. 2017. Remote sensing combined with social-ecological data: The importance of diverse land uses for ecosystem service provision in north-eastern Madagascar. *Ecosystem Services* 25: 140-152.
6. *Prix Schläfli Chemistry 2019*: Dr **Murielle Delley**. 2017. Local Structures and Heterogeneity of Silica-Supported M(III) Sites Evidenced by EPR, IR, NMR, and Luminescence Spectroscopies. *Journal of the American Chemical Society* 139: 8855-8867.
5. *Prix Schläfli Biology 2019*: Dr **Rebekka Wild**. 2018. Control of eukaryotic phosphate homeostasis by inositol polyphosphate sensor domains. *Science* 352: 986-990.
4. *Prix Schläfli Mathematics 2018*: Dr **Livio Liechti**. 2017. On the spectra of mapping classes and the 4-genera of positive knots. PhD Universität Bern.
3. *Prix Schläfli Geosciences 2018*: Dr **Alexandre Bagnoud**. 2016. Reconstructing a hydrogen-driven microbial metabolic network in Opalinus Clay rock. *Nature Communications* 7:12770
2. *Prix Schläfli Chemistry 2018*: Dr **Xiaojiang Xie**. 2014. Photocurrent generation based on a light-driven proton pump in an artificial liquid membrane. *Nature Chemistry* 6: 202
1. *Prix Schläfli Biology 2018*: Dr **Hester Sheehan**. 2016. *MYB-FL* controls gain and loss of floral UV absorbance, a key trait affecting pollinator preference and reproductive isolation. *Nature Genetics* 48(2): 159-166.