

Latest Highlights

New Publications and Preprints

“The human brain produces in 30 seconds as much data as the NASA Hubble Space telescope has produced in its lifetime”

- Tasnim Essack, from “223 Amazing Science Facts, Tidbits and Quotes”

- F. Schintke, N.D. Mecquenem, D. Frantz, V.E. Guarino, M. Hilbrich, F. Lehmann, R. Sattler, J. A. Sparka, D. Speckhard, H. Stolte, A. D. Vu, and U. Leser (2023). **Validity constraints for data analysis workflows**. *CoRR*. <https://arxiv.org/abs/2305.08409>
- A. Rybak-Wolf, E. Wyler, T.M. Pentimalli, ..., and N. Rajewsky (2023). **Modelling viral encephalitis caused by herpes simplex virus 1 infection in cerebral organoids**. *Nat Microbiol*. <https://doi.org/10.1038/s41564-023-01405-y>
- T. M. Pentimalli, S. Schallenberg, D. León-Periñán, I. Legnini, I. Theurillat, G. Thomas, A. Boltengagen, S. Fritzsche, Jo. Nimo, L. Ruff, G. Dernbach, P. Jurmeister, S. Murphy, M.T. Gregory, Y. Liang, M. Cordenonsi, S. Piccolo, F. Coscia, A. Woehler, N. Karaikos, F. Klauschen, and N. Rajewsky (2023). **High-resolution molecular atlas of a lung tumor in 3D**. *bioRxiv*. <https://doi.org/10.1101/2023.05.10.539644>

Conference Presentations

- T. M. Pentimalli, S. Schallenberg, D. León-Periñán, I. Legnini, I. Theurillat, G. Thomas, A. Boltengagen, S. Fritzsche, Jo. Nimo, L. Ruff, G. Dernbach, P. Jurmeister, S. Murphy, M.T. Gregory, Y. Liang, M. Cordenonsi, S. Piccolo, F. Coscia, A. Woehler, N. Karaikos, F. Klauschen, and N. Rajewsky. **High-resolution molecular atlas of a lung tumor in 3D**. (Poster presentation), *Pezcoller Symposium*, Trento, Italy, 29-20 June 2023.

PhD Dissertations



Associated HEIBRIDS PhD researcher **Peter Hirsch**, defended successfully his PhD thesis on **May 26, 2023** at the Computer Science Faculty of Humboldt University in Adlershof.

We wish him all the best in his next career steps!

Announcements

Incubator Summer Academy II

Once more, the five Helmholtz Incubator Platforms [Helmholtz AI](#), [Helmholtz Imaging](#), [HIFIS](#), [HIDA](#) and [HMC](#) have teamed up to create a second edition of the [Helmholtz Incubator Summer Academy](#). Ranging from fundamental course packages as for instance “Python”, or “Introduction to Scientific Metadata” to advanced topics as “Machine Learning Based Image analysis”, the program offers participants to select course packages that best suit their experience levels and interests. The Helmholtz Incubator Summer Academy takes place from **18-29 September 2023** and is open to all doctoral and postdoctoral researchers in the Helmholtz Association.