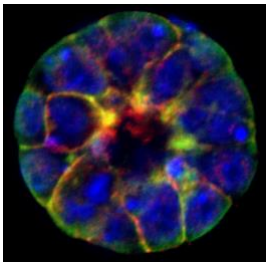
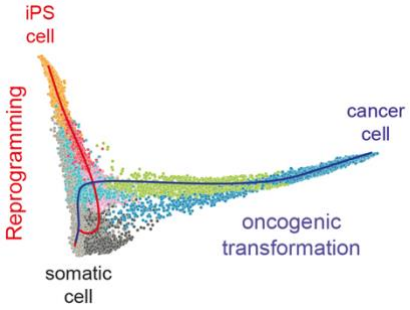
Bioinformatician position to explore the cellular trajectories of reprogramming and oncogenic transformation

The Lavial Lab is seeking a talented bioinformatician (engineer or postdoc) to explore the cellular trajectories of oncogenic transformation and reprogramming. We recently developed cellular and mice models to conduct multi-omic comparative analyses (Huyghe A. et al., Nature Cell Biology 2022) (https://www.crcl.fr/en/citi-department/reprogramming-stem-cells-and-oncogenesis/ - Lyon university).

The candidate will integrate a dynamic and stimulating environment at the cancer research center of Lyon (CRCL). He/she will work in direct collaboration with the bioinformatics department on site (https://www.crcl.fr/en/platforms/gilles-thomas-bioinformatics-platform/).



Skills:
- Experience in omics data analysis (with diploma in bioinformatics or biology). Ability to work with R software (CRAN/Bioconductor) and ideally with another language (Bash or Python). Previous experiences in analyzing high-throughput sequencing data (RNA-seq/ATAC) will be an asset, as well as knowledge for single cell data analyses
- Autonomy and ability to drive the project
- Organization and team player
- Excellent communication and writing skills
- Fluency in English



Contract start date: flexible, between January and April 2023.
Contract duration: 30 months, renewable.

Please submit CV, cover letter, concise description of past achievements and academic goals, and contact details for 2-3 referees. The position will remain open until filled. We are reviewing applications as they are received. Therefore, candidates are encouraged to apply as soon as possible.
Contact: Fabrice.lavial@lyon.unicancer.fr

CRCL CENTRE DE RECHERCHE EN CANCÉROLOGIE DE LYON

Recent publications:

-A. Huyghe, G. Furlan, J. Schroeder, E. Cascales, A. Trajkova, M. Ruel, F. Stüder, M. Larcombe, Y. Bo Yang Sun, F. Mugnier, L. De Matteo, A. Baygin, J. Wang, Y. Yu, N. Rama, B. Gibert, J. Kielbassa, L. Tonon, P. Wajda, N. Gadot, M. Brevet, M. Siouda, P. Mulligan, R. Dante, P. Liu, H. Gronemeyer, M. Mendoza-Parra, J. M. Polo, F. Lavial. Comparative roadmaps of reprogramming and oncogenic transformation identify Bcl11b and Atoh8 as broad regulators of cellular plasticity.
Nature Cell Biology 2022.

-A. Huyghe, G. Furlan, D. Ozmadenci, C. Galonska, J. Charlton, X. Gaume, N. Combémorel, C. Riemenschneider, N. Allègre, J. Zhang, P. Wajda, N. Rama, P. Vieugué, I. Durand, M. Brevet, N. Gadot, T. Imhof, B. J. Merrill, M. Koch, P. Mehlen, C. Chazaud, A. Meissner, F. Lavial. Netrin-1 promotes naive pluripotency through Neo1 and Unc5b co-regulation of Wnt and MAPK signalling.
Nature Cell Biology 2020.

-A. Puisieux, R.M. Pommier, A.P. Morel, F. Lavial. Cellular Pliancy and the Multistep Process of Tumorigenesis. Review.
Cancer Cell 2018.

Université Claude Bernard Lyon 1 — Inserm La science pour la santé From science to health — cnrs — CENTRE DE LUTTE CONTRE LE CANCER LEON BERARD