**Postdoctoral and PhD-student positions in synthetic chemistry and chemical biology**

**Your mission:**
We have several positions opening in the Aye laboratory in Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland, both at PhD student and postdoctoral researcher levels. Our laboratory is a multidisciplinary laboratory focusing on redox/reactive small-molecule signaling as it pertains to intra- and intercellular communication and drug discovery. We have pioneered numerous novel and multi-award-winning chemical biology concepts and techniques that have been applied to important biological questions.

The available projects will build on previously-published foundational studies, and encompass wide-ranging areas in the broader context of synthetic chemistry and chemical biology: such as, (i) development of selective small-molecule inhibitors targeting proteins/pathways essential in several cancer subtypes, based off two successful lead compounds that we recently discovered, and assessing their efficacies in cell culture and the best will be continued to more advanced models. There is possibility to learn cell-based assays and cutting-edge biochemical assays, in line with candidates’ interest to diversify and successful and timely production of desired molecules (and subsequent SAR); (ii) projects aimed at understanding and reprogramming subcellular metabolite trafficking and signaling mechanisms through the design and application of novel chemical probes; and (iii) projects targeting chemistry-driven innovations of advanced spatial and functional omics methods in multiple living models.

**Your profile:**
For postdoctoral candidates, they should have, by the time they begin work, a Ph.D. in organic chemistry or medicinal chemistry or biological chemistry. Ideal candidates should have a broad experience with functional groups, diverse synthetic routes, and work in both small- and large-scale experiments. Use of NMR (1 and 2D, noe, etc.) and LC/GC-MS, is a must for adequate compound characterization. A supple mind-set and willingness to focus on production over elegance is likely a must. Experience with some in vitro biochemical procedures is a bonus, but is not required. For doctoral (PhD program) candidates, we welcome all interested aspiring interdisciplinary students. Master-level experience in organic chemistry, bioengineering, or biotechnology is a plus, but not strictly required.

**We offer:**
A laboratory that is well funded, has won numerous awards lying at a nexus between numerous fields interfacing with chemistry. The successful candidate will enjoy unique state-of-the-art instrumentation, a team-playing environment where they can learn and develop, and projects that are aiming to make real-world impact. The facilities and infrastructure in EPFL are also fantastic.

More information about both of our research groups, including other active research themes, can be found at [https://leago.epfl.ch/](https://leago.epfl.ch/)

**Start date:**
For all positions, they are available immediately, funding is available, and the start date is flexible. All applications should include in PDF format:
(i) Cover letter,
(ii) CV,
(iii) the contact information of three references.

**Term of employment:**
Fixed-term (CDD)

**Work rate:**
100%

**Duration:**
Postdoc: 1 year, renewable up to a maximum of 4 years; 
PhD: 4-year program

**Contact:**
For questions or additional information, please contact yimon.aye@epfl.ch