

Open Postdoc position

LABORATORY OF PROTEIN CHEMISTRY
INSTITUTE FOR SUPRAMOLECULAR SCIENCE AND ENGINEERING
UNIVERSITY OF STRASBOURG, FRANCE

ABOUT US

Institute for Supramolecular Science and Engineering (ISIS) is a leading interdisciplinary research institute at the University of Strasbourg (<https://isis.unistra.fr>). Our team specializing in protein chemistry focuses on application of protein design, total chemical synthesis of proteins and biophysics to solving challenging biological problems (<https://torbeevlab.com>)

WE ARE LOOKING FOR

A skilled postdoctoral candidate with strong interest in peptide / protein chemistry. The project will be to perform structure-function studies of intrinsically disordered proteins using combinatorial protein synthesis. The proteins of interest are involved in gene transcription and we aim at developing new inhibitors of protein-protein interactions important for new cancer therapeutics. The main requested techniques are solid-phase peptide synthesis and peptide ligation chemistries. The knowledge and experience with protein NMR or X-ray crystallography are highly valued

REQUIREMENTS

- Experience in solid-phase peptide synthesis and peptide ligation chemistries
- Skills in organic synthesis
- Ability to perform and interpret the results of biophysical experiments (*e.g.* CD, fluorescent spectroscopy, analytical ultracentrifugation)
- Knowledge of structural biology methods (protein NMR and X-ray crystallography)
- The ability to plan and execute experimental work without close supervision
- The ability to work as the team

HOW TO APPLY

Qualified applicants should submit an application by email, including a letter outlining research interests, the CV, and the contact information of three referees to Dr. Vladimir Torbeev (torbeev@unistra.fr)

RELEVANT PUBLICATIONS

1. Enhancing binding affinity of an intrinsically disordered protein by α -methylation of key amino acid residues. V. Bauer, B. Schmidtgal, G. Gógl, J. Dolenc, J. Osz, Y. Nominé, C. Kostmann, A. Cousido-Siah, A. Mitschler, N. Rochel, G. Travé, B. Kieffer, V. Torbeev, ChemRxiv <https://doi.org/10.26434/chemrxiv.10113128.v1>
2. Chemical synthesis of transactivation domain (TAD) of tumor suppressor protein p53 by native chemical ligation of three peptide segments. A. Baral, A. Asokan, V. Bauer, B. Kieffer, V. Torbeev, *Tetrahedron* **2019**, 75, 703
3. Dissecting mechanism of coupled folding and binding of an intrinsically disordered protein by chemical synthesis of conformationally constrained analogues. B. Schmidtgal, O. Chaloin, V. Bauer, M. Sumyk, C. Birck, V. Torbeev, *Chem. Commun.* **2017**, 53, 7369