

10 March 2020



# Open PhD 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 motivated and skilled Ph.D. candidate with an 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

## REQUIREMENTS

- Good knowledge of organic chemistry (experience in chemical synthesis with prior experience in peptide/protein chemistry is considered strong advantage)
- Knowledge of biophysical methods (protein NMR in particular)
- PhD Candidates must have a Master or an equivalent degree
- Excellent command of the English language in writing and presentation

## 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](mailto:torbeev@unistra.fr))

## RELEVANT PUBLICATIONS

1. Enhancing binding affinity of an intrinsically disordered protein by  $\alpha$ -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.