# Louise Pinet
**louise.pinet@ens-lyon.fr**

# Assistant Professor (MCF) at CRMN - ENS de Lyon

## Main expertise

I am a structural biologist specialized in NMR spectroscopy and single-molecule fluorescence of biomolecules. I am particularly interested in intrinsically disordered proteins (IDPs) in the context of cell signalling.

## Academic path

2023 - present **Assistant Professor (Maîtresse de conférences) at CRMN - ENS de Lyon**
Very-high field NMR Center of Lyon (Lyon, France)

2020 - 2023 **Post-doctoral researcher**
*Dissecting chromatin decompaction by poly(ADP-ribose) at the single-molecule level*.
Schuler group, Department of Biochemistry, University of Zürich (Zürich, Switzerland)

2016 - 2019 **PhD in Biochemistry and Structural Biology**
Institut de Chimie des Substances Naturelles, CNRS UPR2301 (Gif-sur-Yvette, France), Université Paris-Saclay. Thesis defended on 17 October 2019.
*Structural and functional investigation of the intrinsically disordered C-terminal tail of ErbB2 by NMR*
Supervisors : Carine van Heijenoort and Nadine Assrir

## Pre-doctoral training

2013-2016 **ENS de Paris student, Department of Chemistry**
ENS de Paris (Paris, France)

> 2016 **MSc in Biophysics**
> Université Pierre et Marie Curie (now Sorbonne Université, Paris, France)
>
> February - July 2016 **Intern**
> Institut de Chimie des Substances Naturelles, CNRS UPR2301 (Gif-sur-Yvette, France)
> *Structural and functional investigation of the intrinsically disordered C-terminal tail of ErbB2 by NMR*
> Supervisors : Carine van Heijenoort and Nadine Assrir
>
> February - July 2015 **Intern**
> Gierasch Lab, Department of Biochemistry and molecular Biology, Umass Amherst (Amherst, MA, USA)
> *Mutagenesis of the interface NDB/linker residues of DnaK*
> Supervisors : Lila Gierasch et Eugenia Clerico
>
> 2014 **BSc in Chemistry**
> Université Pierre et Marie Curie (now Sorbonne Université, Paris, France)

2011-2013 **Physics and Chemistry intensive training (CPGE PCSI - PC*)**
Lycée du Parc (Lyon, France)

# Publications

## Original research papers

A1 Wang, B.; Kronenberg-Tenga, R.; Rosti, V.; Di Patrizio Soldateschi, E.; Luo, Q.; Iannacchero, U. M.; Pinet, L.; Eibauer, M.; Boujemaa-Paterski, R.; Schuler, B.; Lanzuolo, C.; Medalia, O. The Molecular Basis of Lamin-Specific Chromatin Interactions. Nat Struct Mol Biol 2025, 1–13. https://doi.org/10.1038/s41594-025-01622-5.

A2 Pinet, L.; Wang, Y.-H.; Deville, C.; Lescop, E.; Guerlesquin, F.; Badache, A.; Bontems, F.; Morellet, N.; Durand, D.; Assrir, N.; van Heijenoort, C. Structural and Dynamic Characterization of the C-Terminal Tail of ErbB2 : Disordered but Not Random. Biophysical Journal 2021, 120 (10), 1869–1882. https://doi.org/10.1016/j.bpj.2021.03.005.

A3 Pinet, L.; Wang, Y.-H.; Vogel, A.; Guerlesquin, F.; Assrir, N.; van Heijenoort, C. 1H, 13C and 15N Assignments of Human Grb2 Free of Ligands. Biomol NMR Assign 2020, 14 (2), 323–327. https://doi.org/10.1007/s12104-020-09970-7.

A4 Chan-Yao-Chong, M., Deville, C., Pinet, L., van Heijenoort, C., Durand, D., Ha-Duong, T. Structural Characterization of N-WASP Domain V Using MD Simulations with NMR and SAXS Data. Biophysical Journal 2019, 116 (7), 1216–1227. https://doi.org/10.1016/j.bpj.2019.02.015.

A5 Wang, Y. H., Pinet, L., Assrir, N., Elantak, L., Guerlesquin, F., Badache, A., Lescop, E., van Heijenoort, C. 1H, 13C and 15N Assignments of the C-Terminal Intrinsically Disordered Cytosolic Fragment of the Receptor Tyrosine Kinase ErbB2. Biomol NMR Assign 2018, 12 (1), 23–26. https://doi.org/10.1007/s12104-017-9773-4.

## Review papers

R1 Pinet, L.; Assrir, N.; van Heijenoort, C. Expanding the Disorder-Function Paradigm in the C-Terminal Tails of Erbbs. Biomolecules 2021, 11 (11), 1690. https://doi.org/10.3390/biom11111690.

# Teaching

2023-present Lecturer, Department of Chemistry, ENS de Lyon (Lyon, France) - 192 hours / year
2020-2023 Teaching Assistant at the Bachelor level, Department of Biochemistry, University of Zürich (Zürich, Switzerland) - 40 hours
2016 - 2019 Teaching Assistant at the Bachelor and Masters level, Department of Chemistry, Université Paris-Sud (Orsay, France) - 64 hours / year

# Other responsibilities

2023 - present Equality correspondent for the CRMN (Lyon, France)
2023 - present International Correspondent for the Department of Chemistry, ENS de Lyon (Lyon, France)