

Olivier Walker

Associate Professor (Maître de Conférences, Hors Classe) · Structural Biology & NMR

Claude Bernard University Lyon 1 · Institute of Analytical Sciences · Head of the BIOSYS Research Team

[Personal website](#) · [NMR BiolChem research team](#) ·

EDUCATION

2008	Habilitation to Supervise Research (HDR)
2001	PhD in Physical Chemistry, University of Lorraine

ACADEMIC APPOINTMENTS

Since 2015	Founder and Head of the BIOSYS research team (“Biophysics of Complex Systems”), Institute of Analytical Sciences
Since 2004	Associate Professor, Claude Bernard University Lyon 1, Laboratory of Analytical Sciences
2003	Teaching and Research Assistant (ATER), University of Lorraine
2002–2003	Postdoctoral Researcher, University of Maryland (USA), Department of Life Sciences

INSTITUTIONAL RESPONSIBILITIES

- Member of the Scientific Board of the Institute of Analytical Sciences (ISA)
- **Head of the ATHEXIM research axis**, Institute of Analytical Sciences

SCIENTIFIC OUTPUT

- **41 peer-reviewed publications** (1,129 citations · h-index 19)
- 32 invited or contributed oral presentations · 30 poster presentations
- 3 conference proceedings · 1 book chapter

SOFTWARE DEVELOPMENT

- **Rotdif**: dynamic analysis of spin relaxation data
- **Altens**: determination of alignment tensors from residual dipolar couplings
- **SpinRelax**: prediction of heteronuclear spin relaxation parameters (R_1 , R_2 , NOE) [GitHub repository](#)

RESEARCH GRANTS

2023–2026	ANR PRME “Resist2Silver”, PI
2023–2026	MITI CNRS 80 Prime, partner;
2021–2022	MITI CNRS “Modeling of Living Systems”; PI
2021–2022	MITI CNRS “Metalomix”, PI
2019–2022	Research contract with Allergan Industry, PI
2019–2022	FINOVI, partner
2015–2019	ANR OH Risque “Metadyn”, PI
2016–2017	Regional grant, partner

INTERNATIONAL SCIENTIFIC EVALUATION

- Expert reviewer: **Israel Science Foundation & Czech Science Foundation** (Starting Grants)
- Member of the expert panel for the **Swiss National Science Foundation**/Swiss Roadmap for Research Infrastructures

EDITORIAL ACTIVITIES

- **Editorial Board Member:** International Journal of Molecular Sciences; Frontiers in Biophysics; ISRN Computational Biology
- **Reviewer:** Molecular Biology of the Cell, Structure, Physical Chemistry Chemical Physics, J. Phys. Chem. Letters

RESEARCH NETWORKS

2022–2026	COST ML4NGP CA21160; Non-globular proteins in the era of Machine Learning
2016–2019	EIPOD programme, European Molecular Biology Laboratory
2015–2019	COST NGP BM1405; Non-globular proteins: from sequence to structure, function and application
2014–2018	COST PROTEOSTASIS BM1307; Intracellular proteolysis pathways in health and disease
Since 2016	BioSyl network
Since 2022	ARBRE network; Association of Resources for Biophysical Research in Europe

INTERNATIONAL RESEARCH VISITS

2011	Visiting researcher, group of Prof. David Fushman, University of Maryland <i>Lys27-linked polyubiquitin chains</i>
2010	Visiting researcher, group of Prof. David Fushman, University of Maryland <i>Ubistatin / ubiquitin interaction</i>
2004	Visiting researcher, University of Maryland <i>Theoretical study of polyubiquitin chains</i>

THESIS AND HDR COMMITTEES

HDR Committees: 4 expertise

PhD Committees: 6 expertise (2 as examiner)

STUDENT SUPERVISION

Postdoctoral Researchers: 6 supervised

PhD Students: 8 supervised

Master's Students: 6 Master's (M2) students and 14 Master's (M1) students supervised