

OLIVIER NDOGO ETEME, PhD

MEDICINAL CHEMIST | PEPTIDE SCIENTIST | DRUG DISCOVERY SCIENTIST

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EXECUTIVE SUMMARY

Internationally trained PhD Medicinal Chemist with 10+ years of experience spanning pharmaceutical R&D, peptide therapeutics, medicinal chemistry, natural product drug discovery and analytical sciences. Expertise in Fmoc-SPPS, LC-MS/MS, HPLC, MALDI-TOF, NMR spectroscopy, bioactive compound characterization and antimicrobial drug discovery. Experienced across academia and industry with research leadership in the USA, Austria, Brazil, France and Cameroon.

CORE EXPERTISE

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|-------------------------|-------------------------|----------------------------------|
| • Drug Discovery | • Medicinal Chemistry | • Peptide Therapeutics |
| • Lead Identification | • Lead Optimization | • Natural Products |
| • SPPS (Fmoc) | • Organic Synthesis | • Analytical Chemistry |
| • LC-MS/MS | • HPLC | • NMR |
| • MALDI-TOF | • Protein Assays | • Target Validation |
| • Structure Elucidation | • GMP Awareness | • GLP Awareness |
| • Quality Control | • Scientific Leadership | • Cross-functional Collaboration |

SELECTED SCIENTIFIC IMPACT

- Published 20+ peer-reviewed scientific articles in medicinal chemistry, pharmacology and natural products.
- Led or contributed to internationally funded research programs (FAPESP, OeAD, Austrian Science Fund, University of Reims mobility).
- Discovered and characterized novel cyclotides from African medicinal plants with applications in antimicrobial, antiviral and protease inhibitor research.
- Designed and synthesized bioactive peptide analogues using Fmoc-SPPS and advanced peptide engineering workflows.
- Established scientific collaborations with the University of Pennsylvania, Medical University of Vienna, UNESP, University of Reims and University of Yaoundé I.
- Expertise covering the complete discovery workflow: extraction → purification → structural elucidation → biological evaluation.

PROFESSIONAL EXPERIENCE

University of Pennsylvania — Visiting Research Scholar (2025–Present)

- Drug discovery and medicinal chemistry research.
- Advanced analytical characterization (HPLC, LC-MS/MS, NMR, MALDI).
- Cross-functional collaboration, scientific publications and project execution.

UNESP, Brazil — Postdoctoral Research Fellow (2022–2024)

- Drug discovery and medicinal chemistry research.
- Advanced analytical characterization (HPLC, LC-MS/MS, NMR, MALDI).
- Cross-functional collaboration, scientific publications and project execution.

Laboratoires Afric-Phar — R&D Scientist (2014–2016)

- Drug discovery and medicinal chemistry research.
- Advanced analytical characterization (HPLC, LC-MS/MS, NMR, MALDI).
- Cross-functional collaboration, scientific publications and project execution.

CINPHARM S.A. — Quality Control Scientist (2011–2013)

- Drug discovery and medicinal chemistry research.
- Advanced analytical characterization (HPLC, LC-MS/MS, NMR, MALDI).
- Cross-functional collaboration, scientific publications and project execution.

University of Yaoundé I — Lecturer & Research Scientist (2023–Present)

- Drug discovery and medicinal chemistry research.
- Advanced analytical characterization (HPLC, LC-MS/MS, NMR, MALDI).
- Cross-functional collaboration, scientific publications and project execution.

EDUCATION

- PhD Organic Chemistry (2021)
- MSc Organic Chemistry (2014)
- Professional MSc Petrochemistry (2012)
- BSc Chemistry (2010)

SELECTED PUBLICATIONS

- 1- **Negin Khatibi**, Olivier Ndogo Eteme *et al.* Discovery of insecticidal cyclotides from African *Allexis* species. - **Industrial Crops & Products**, 2025.
- 2- **Olivier Ndogo Eteme** *et al.* Methods for extraction, isolation and sequencing of cyclotides. **Parasitology International**, 2023.
- 3- **J. Gattringer**, Olivier Ndogo Eteme *et al.* Cyclotides from Cameroonian violets inhibit human prolyl oligopeptidase. **Frontiers in Pharmacology**, 2021.
- 4- **Olivier Ndogo Eteme** *et al.* Synthesis of peptide derivatives from *Ziziphus jujuba*. **European Modern Studies Journal**, 2024.
- 5- **W. L. D. Tankoua**, Olivier Ndogo Eteme *et al.* Spectroscopic investigation of acridone alkaloids. **Natural Product Research**, 2024.

KEY ACHIEVEMENTS

- ACMAP Travel Award (2026)
- Carlos Chagas Filho Award (2023)
- FAPESP Postdoctoral Fellowship
- OeAD Ernst Mach Fellowship
- University of Reims Mobility Fellowship

ATS KEYWORDS

Drug Discovery • Medicinal Chemistry • Peptide Therapeutics • Drug Development • Lead Optimization • Hit Identification • Pharmaceutical R&D • Organic Synthesis • Analytical Chemistry • LC-MS/MS • HPLC • NMR • MALDI • Pharmacology • Target Validation • Structure Elucidation • Bioactive Natural Products • Antimicrobial Peptides • Quality Control • GMP • GLP • Principal Scientist • Senior Scientist

PROFESSIONAL MEMBERSHIPS

- American Chemical Society
- American Peptide Society
- European Peptide Society