Noah CUISSE

Lyon, France
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Driver's Licence

PROFILE

Ambitious biology student with a strong foundation in molecular, cell and developmental biology. Currently pursuing a Bachelor's degree at ENS Lyon, with extensive research experience in cutting-edge projects such as antibody delivery systems and nanoblades design. Looking for a 6-month internship in developmental biology to contribute to innovative research at Stanford University.

EDUCATION

École Normale Supérieure (ENS) de Lyon, Lyon, France
Bachelor's Degree in Biosciences *Since 2024*
- Coursework: Molecular Biology, Biochemistry, Cell Biology, Developmental Biology

Université du Littoral Côte d'Opale (ULCO), Calais, France
Diploma in Artificial Intelligence *2024*
- Focus: Introduction to Machine Learning (Python – Regression, Classification, Clustering)

Université du Littoral Côte d'Opale (ULCO), Calais, France
Bachelor's Degree in Biology *2022-2024*
- Coursework: Genetics, Embryology, Lab Techniques (ELISA, extractions, chromatography)

RESEARCH EXPERIENCES

Research Assistant – CIRI (INSERM), Lyon, France *January 2025 – July 2025 (Upcoming)*
- Developing antibody delivery systems via viral-like particles (VLPs) to target specific proteins in living cells.

Research Intern – ONCOLille (CNRS), Lille, France *November 2023 (1 week)*
- Investigated TRKA signaling pathways in triple-negative breast cancer.
- Techniques: Cell culture, Biomimesys® matrix seeding, Western blot.

Research Intern – MABLab (CHU Lille), Boulogne-sur-Mer, France *May 2023 (1 week)*
- Explored bone marrow organoid design.
- Techniques: Fluorescence microscopy, FRET biosensors, ImageJ analysis.

RESEARCH PROJECTS

- **Nanoblades Design (ENS Lyon):** Engineered VLPs for protein delivery, validating knock-out efficiency through molecular assays.

- **Molecular Cloning (ENS Lyon):** Cloning of *lacZ* and purification of β-galactosidase to analyze enzyme kinetics.

- **Anisakis Infestation Modeling (ULCO):** Relationship between Prey Consumption and Anisakis Infestation in *Trachurus trachurus* using bioinformatics models.

UPCOMING HANDS-ON LABORATORY TRAINING

- **Biochemistry :** Study of creatine kinase isoforms, enzymatic kinetics, and protein interactions using techniques like electrophoresis, photometry, fluorimetry, DSC, Biacore, and NMR

- **Developmental Biology :** Exploration of developmental biology questions using UAS-Gal4 and mutant genetics in Drosophila analyzed through confocal microscopy with quantifiable metrics such as cell or tissue migration speed.

SKILLS

Laboratory Techniques: PCR, plasmid construction, transfection, VLP transduction
Programming: Python (Biopython, Pymol, scikit-learn, pandas), R, ImageJ, LaTeX
Languages:
- French: Native
- English: Professional proficiency (B2+)

INTERESTS

- Competitive basketball (club and university level)
- Trekking and mid-mountain hiking
- Scientific literature
- Geopolitical news

REFERENCES

Stéphane Vincent, Maître de Conférences, stephane.vincent11@ens-lyon.fr
Robert-Alain Toillon, Full Professor, robert-alain.toillon@univ-lille.fr
François Sipieter, Maître de Conférences, francois.spieter@univ-littoral.fr