



Noémie Tentillier

Date of birth: 14/01/1986 | **Nationality:** French | **Gender:** Female |

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Address: Chemin de la Damataire 8, 1009, Pully, Switzerland (Home)

● ABOUT ME

- Ph.D. in Health Sciences
- 10+ years of experience in Therapeutic Research
- Expert in quantification and functional characterization of biomolecules
- Design, planning, execution of experiments, data analysis & reporting
- Autonomous, adaptable, flexible, pro-active, collaborative and solution oriented
- Strong timeline management and communication skills

● WORK EXPERIENCE

15/07/2020 – 31/12/2022 Lausanne, Switzerland

LEAD BIOLOGIST – IMMUNOANALYTICAL BIOMARKER RESEARCH GROUP AC IMMUNE SA

Missions:

- Responsible for the **development** and **qualification** of new ultra-sensitive **analytical immunoassay systems** for **protein quantification** in biofluids
- Responsible for the **generation** and **characterization** of novel antibodies
- Designed and handled **purification of plasma proteins** for Mass Spectrometry analysis
- Developed and troubleshoot assays for **functional characterization** of novel protein therapeutics (mechanism of action and binding properties) for **internal collaboration** with the preclinical team
- Identification of new platforms for ultrasensitive **protein detection**
- Developed microfluidic nano-immunoassays for protein detection in biofluids

Achievements:

- Selected **lead targets** and generated 10 novel ultrasensitive immunoassays for **detection** and **quantification** of proteins of interest
- Generated** (via CRO) and **characterized** (in house) 12 novel antibodies via **flow-based biosensor interaction assays** (SPR), Immunohistochemistry, **mass photometry** and **ELISA**.
- Supervised **feasibility assays** at CRO, **organized** protocols, materials needed, follow up, ensured good project progression and positive outcome
- Led external collaborations**, organized timely meeting and led discussion on short and long-term project goals
- Maintained **Good Laboratory Practice** compliance, ensuring internal SOPs and regulatory standards
- Led and supervised 3 junior scientists and technicians** to develop projects
- Implemented new analytical technology (SIMOA technology)
- Co-authored scientific publication on target binding of lead antibody in biofluids
- Developed** 4 microfluidic nano-immunoassays and **analyzed** their performance as screening method in collaboration with the Institute of Bioengineering, EPFL

01/01/2019 – 31/12/2019 Lausanne

SCIENTIST – UNIT OF RETINAL DEGENERATION AND REGENERATION EYE HOSPITAL JULES-GONIN

Missions:

- Responsible for **proof-of-concept studies** of epigenetic inhibitory therapeutic treatments for retinal degeneration on animal and cellular models

Achievements:

-Successfully implemented and monitored the safety and efficacy of 3 **therapeutic molecules** using a set of cellular and molecular techniques

01/01/2018 – 31/12/2018 Aarhus, Denmark

PARENTAL LEAVE HOME

01/02/2013 – 01/07/2017 Aarhus, Denmark

PHD AND POSTDOCTORAL FELLOW – CNS DISEASE MODELING GROUP, BIOCHEMISTRY DEPARTMENT AARHUS UNIVERSITY

Missions:

-Responsible for the studies of targeted modification and depletion of CD163 macrophages in a Parkinson's disease model

Achievements:

-Successfully **designed, implemented experiments, and monitored** the safety and efficacy of 2 **therapeutic compounds**, on in vivo and in vitro models

-Established **international collaborations** for research projects

-**Presentation** of several projects at international conferences

● EDUCATION AND TRAINING

01/02/2013 – 30/09/2016 Aarhus, Denmark

PH.D HEALTH SCIENCES, SPECIALIZATION IN NEUROSCIENCES Aarhus University

Website <https://phd.health.au.dk/>

01/09/2009 – 30/06/2011 Grenoble, France

MASTER OF SCIENCE, CELLULAR AND INTEGRATIVE BIOLOGY Joseph Fourier University

01/09/2005 – 30/06/2009 Grenoble, France

MASTER OF SCIENCE, CELLULAR AND INTEGRATIVE BIOLOGY Joseph Fourier University

● LANGUAGE SKILLS

Mother tongue(s): **FRENCH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Microsoft Office | graph pad prism | electronic lab book