Etienne Meunier – Section 29 - Collège A1

Last name, First name:	Date of birth:	ORCID ID:	Current position:
MEUNIER, Etienne	03/01/1986	org/0000-0002-3651-4877	DR2-CNRS/Head of the team "Detection and Elimination of Pathogens"/IPBS-UMR5089 Toulouse, France

EDUCATION

INSTITUTION AND LOCATION	DEGREE	Completion date	FIELD OF STUDY
University of Toulouse/IPBS/CNRS	HDR	03/2020	Immunity and Infectious Diseases
University of Toulouse	PhD	12/2012	Immunity and Infectious Diseases

1- Summary of the scientific background

After obtaining my Master degree in 2009, I started my PhD training in the laboratory of Dr. Bernard Pipy, Toulouse, France. There I described divergent roles for several membrane-bound receptors, namely the C-type lectin receptors MRC1, SignR3 and Dectin 1 in macrophage-mediated microbicidal response to the parasite Leishmania infantum.
Aiming to broaden my knowledge on innate immune sensing of pathogens, I joined as a postdoctoral fellow the group of Petr Broz in Basel, Switzerland in 2013. There I studied the molecular and cellular mechanisms that regulate activation of cytosolic inflammatory complexes, namely the inflammasomes. I discovered an unexpected link between host cytosolic anti-bacterial immunity and microbial sensing. Indeed, I demonstrated that upon induction by interferons, the GTPases Guanylate Binding Proteins (GBPs) bridge bacterial sensing to inflammasomes-forming receptors/sensors in the context of cell-autonomous immunity.
In 2017-2018, with a strong support from the CNRS, the University of Toulouse and the Fondation pour la Recherche Médicale, I moved to Toulouse and set up my own laboratory at the Institut de Pharmacologie et de Biologie Structurale (IPBS, CNRS UMR5089). The IPBS is a multidisciplinary research institute whose themes range from understanding the molecular mechanisms governing living organisms to physiopathological implications including cancer, infections, inflammation. Hence, our thematic embed in this amazing and transversal context by addressing the importance of immune signaling pathways and virulence from pathogens and cancer cells to circumvent those restricting processes developed by our cells at the molecular, cellular, tissue and whole organism level.
Building on previous achievements, I now aim to expand and strengthen the knowledge already developed in the group but also to tackle the challenges of tomorrow in the field of cell death, immunity, host pathogen interactions but also environmental exposure. Hence, based on recent studies and unpublished results, the group has developed a global program that embeds basic to translational research in order to better understand the Human physiology and virulence of respiratory viruses, bacteria and fungi, anti-microbial immunity as well as pathological environment-driven inflammation.

2- Positions and scientific appointements

2018-now - Head of the team "Immune detection and elimination of Pathogens"
Institute of Pharmacology & Structural Biology (IPBS) - UMR5089
2017-now - Researcher in Immunology- CNRS researcher
Institute of Pharmacology & Structural Biology (IPBS) - UMR5089
2013-2016 - Post-doctoral position Biozentrum
Basel University, Switzerland Focal area in infection biology, Petr Broz group, "The innate immune response against bacterial pathogens". 50/70 Klingerlbergstrasse, 4056 Basel, CH.
2013 - Temporary position in teaching and research (ATER)/ Assistant professor.
Paul Sabatier University, Toulouse, France
2010-2013 - PhD Degree
UMR-152, Team Macrophages polarization and nuclear receptors in infection and inflammation (Mrn2i), Rangueil Hospital, 1 avenue Jean Poulhès, 31403 Toulouse Cedex4, France. Laboratory of Agnes Coste and Laurent Alric.

3- Honors and Awards

2018	Fonroga foundation Price for young investigators
2022	Médaille de Bronze Award from CNRS

4- Supervision of students and postdoctoral fellows during the last 10 years

Name/Year	Level	Articles
Elif Eren 2018-2021	Post doc	(3) PMIDs: -34516571-33124769-29313961

Remi Planes 2018-2022	Post doc	(9) PMIDs:-36362409-35899491-35849616-35759203-35594856-35311462-34516571 -33124769-30581112
Stephen Adonai 2019-2024	PhD/ Post doc	(6) PMIDs:-36362409-35849616-35594856-35332201-34605588-34516571
Caïo Bonfim 2024-	Post doc	0
Karin Santoni 2019-2023 (100%)	PhD training	(6) PMIDs:-35899491- 35849616- 35759203- 35594856- 34516571- 33124769
Salimata Bagayoko 2018-2021 (100%)	PhD training	(6) PMIDs:- 35849616- 35594856- 35311462- 34670020- 34516571- 33124769
Miriam Pinilla 2020- (100%)	PhD training	(4) PMIDs:- 35849616- 35594856- 34516571- 33124769
Lea Fromont 2022- (50%)	PhD training	(2) PMID: 36988579- 36524131
Leana Gorse 2022- (100%)	PhD training	(1) PMIDs:- 35849616
Ron Ortega 2022- (50%)	PhD training	0
Léa Ravon-Katossky 2024- (100%)	PhD training	(1) PMID: 39840902
Margaux Paradis2023- (100%)	PhD training	(1) PMID: 37642996

5- Major grants obtained over the last 10 years

Year	Grant	Purpose	Amount	Lab funds	Position
2024-2027	ANR “COMETH-”	Inflammasomes in skin diseases	850k€	350k€	**Leader**
2023-2026	Horizons (EU) « Ithemycs »	Novel anti microbial coumpounds	3M€	300k€	Partner lab
2023	Fondation CNRS	microscope acquisition	100k€	100k€	**Leader**
2023-2026	JPIAMR “AcoMA” (ANR-EU Horizons)	Antibiotic resistance	1M€	230k€	**Partner/WP co-leader**
2022-2026	TBVI/Bill & Melinda Gates Fondation	Novel systems of innate immunity to infections	6M€	400k€	Partner/WP member
2022-2026	ANR “Psicopak”	Inflammasomes in Psoriasis	600k€	190k€	**Partner/WP leader**
2022-2026	Air Liquide Fondation	Novel drug targets against respiratory infections	150k€	150k€	**Leader**
2022-2024	Region Occitanie	Anti-infectious compounds	120k€	120k€	**Partner/WP member**
2023-2027	Invivogen	CIFRE	170k€	170k	**Leader**
2021-2023	VLM Fondation	Organoids and infections	65k€	65k€	Partner lab
2021-2023	Invivogen	Inflammasomes in Covid19	120k€	120k€	**Leader**
2019-2022	Invivogen	CIFRE	170k€	170k€	**Leader**
2018-2023	ERC StG	Novels concepts in inflammasome biology	1.5M€	1.5M€	**Leader**
2018-2022	ANR “Endiabac”	Metabolism and inflammation	400k€	100k€	**Partner/WP leader**
2017-2020	FRM “Amorçage”	Starting the lab	300k€	300k€	**Leader**
2017-2022	ATIP-Avenir	Starting the lab	180k€	180k€	**Leader**

6- Major invited conferences over the last 2 years

2025 – Invited speaker: British Society of Immunology congress, Liverpool
2025 – Invited speaker: ISSAID 2025, Paris
2025 – Invited speaker: Bacterial Pathogens and Host Cell Interactions, Viet Nam
2023 – Organizing committee of the InnascO congress
2023 – “Cells & Inflammation: Live and Let Die!” - GREMI/Paris/Keynote

7- Other activities

– Member of the ANR evaluation panel, section Physiopathology (CE14, since **2022**)
– HCERES committee (**2023-2024**)
– Editor of FEMS Pathogens (since **2023**)
– Reviewer for Nature, Nature Microbiology/immunology, PNAS, Cell Host & Microbes, FEBS, Cellular Microbiology, JEM, AMJPathol…
– Reviewing of ANR, Poland National Funding Agency (**2020**), University grants (Grenoble, France, Basel, Switzerland), ANSES
– Memberships : Société Française d’Immunologie/ Société Française de Microbiologie/ECCMID
– **2017** Co-founder of the startup Enterosys
– Scientific advisory board of Vibiosphen company