

Curriculum vitae

Personal data

Name: Agnes Regina BANRETI

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Address: Institute of Biology Valrose (iBV)- UMR1091 INSERM/UMR7277-CNRS, Centre de Biochimie, Parc Valrose, 06108 Nice, France

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Workplaces and professional practice

From 2024 December Principal Investigator at Institute of Biology Valrose (iBV), UCA, Nice, France

From 2023 October INSERM Chargé de recherche at the iBV, Principal Investigator: Dr. Stéphane Noselli

2018 November to 2023 October CNRS IdEx researcher at iBV, Principal Investigator: Dr. Stéphane Noselli

From 2018 November Visiting member of the Nice Institute of Chemistry (ICN), UMR7272 CNRS, UCA, Nice, France

2015 March to 2018 August: Postdoctoral Research fellow with EMBO-Marie Curie COFUND Long-Term Fellowship at Institute of Cancer Research (ICR), London, United Kingdom, Principal Investigator: Prof. Pascal Meier

Education

2015 Ph.D. degree at Eotvos Lorand University, ELTE, Budapest, Hungary, Passed with Summa cum laude
Supervisor: Emeritus Professor Miklos Sass (ELTE, Budapest, Hungary) and co-tutor: Dr. Yacine Graba (IBDM, UMR7288 CNRS, Marseille, France)

2009 September – 2014 March: Ph.D. fellow at Eotvos Lorand University, ELTE, Budapest, Hungary and at Marseille Developmental Biology Institute (IBDM)

Scientific Grants and Funding

2024-2029 ANR JCJC Grant

2024-2029 INSERM IRP grant

2025 Erasmus Plus fellowship for M.Sc. students

2024-2026 ARC PJA1 Grant

2023-2026 IdEx Welcome package

2025 Academy 4 Transdisciplinary "Complexité et Diversité du Vivant" de l'IdEx grant

2024-2025 Erasmus Plus fellowship for M.Sc. students

2024-2025 Diamond Light Source Synchrotron Grant

2023-2024 SOLEIL Synchrotron Project Grant

2023 Lendulet Momentum Laureate (Hungarian equivalent of the ERC Starting grant)

2020-2021 SOLEIL Synchrotron Project Grant

2019 SOLEIL Synchrotron Project Grant

2018-2020 IDEX- Initiative d'excellence Grant

2018 SOLEIL Synchrotron Project Grant

2015-2018, Post-Doc: EMBO - Marie Curie COFUND, Long-Term Post-Doctoral Fellowship

2009-2014, Ph.D.: Hungarian National Ph.D. fellowship and 9 short-term international PhD grants

(Richter Gedeon Predoctoral Fellowship, EMBO Short-term fellowship, two times STSM COST Short-Term Fellowships, Bourse de l'Espace Campus France Hongrie Ambassade de France en Hongrie, STSM COST Grant to young investigators for conference participation, two times Special Scientific Support from ELTE, Erasmus Fellowship).

Publications on the subject:

Banreti A[✉], Bhattacharya S, Wien F, Matsuo K, Réfrégiers M, Meinert C, Meierhenrich U, Hudry B, Thompson D, Noselli S,

Biological effects of the loss of homochirality in a multicellular organism. *Nat Commun.* 2022, 13(1):7059., Impact Factor (2022): 17.694

[✉]**corresponding author**

Banreti A[✉], Meier P[✉]

The NMDA receptor regulates competition of epithelial cells in the Drosophila wing. *Nat Commun.* 2020 ;11(1):2228., Independent citation: 9, Impact Factor (2020): 14.919, Impact Factor (2022): 17.694

[✉]**co-corresponding authors**

Klionsky DJ[✉], Abdel-Aziz AK, Abdelfatah S,.. **Banreti A**... Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). *Autophagy.* 2021 ;17(1):1-382., Independent citation: 184, Impact Factor (2021): 16.016, Impact Factor (2022): 13.391

Duffraisse M, Paul R, Carnesecchi J, Hudry B, **Banreti A**, Reboulet J, Ajuria L, Lohmann I, Merabet S[✉].

Role of a versatile peptide motif controlling Hox nuclear export and autophagy in the Drosophila fat body.

J Cell Sci. 2020 ;133(18):jcs241943., Independent citation: 3, Impact Factor (2020): 5.285, Impact Factor (2022): 5.235

Meier P[✉], **Banreti A**[✉]

Tissue Repair: How to Inflamm Your Neighbours. *Curr Biol.* 2016 ;26(5):R192-4., Independent citation: 3, Impact Factor (2016): 8.851, Impact Factor (2022): 10.900

[✉]**co-corresponding authors**

Banreti A[✉], Hudry B, Saurin A, Sass M, and Graba Y[✉]

Hox proteins mediate developmental and environmental control of autophagy. *Dev Cell.* 2014 ;28(1):56-69., Independent citation: 30, Impact Factor (2014): 9.708, Impact Factor (2022): 13.417

[✉]**co-corresponding authors**

Banreti A[✉], Sass M, and Graba Y

The emerging role of acetylation in the regulation of autophagy, Autophagy. *Autophagy.* 2013 ;9(6):819-29., Independent citation: 137, Impact Factor (2013): 11.423 , Impact Factor (2022): 13.391

[✉]**corresponding author**

Banreti A, Lukacsovich T, Csikos G, Erdelyi M, and Sass M✉

PP2A regulates autophagy in two alternative ways in *Drosophila*, *Autophagy*. 2012 ;8(4):623-36.

Independent citation: 42, Impact Factor (2012): 12.042 , Impact Factor (2022): 13.391

Invited oral communications: 5

(France, 2024; Ireland, 2020; France, 2018 and 2017; UK, 2017)

Other oral communications: 8

International poster presentations: 4

Scientific Awards

2024 ANR JCJC Laureate

2023 Lendulet Momentum Laureate

2011 “The best EMBO poster of the conference” award at the EMBO meetings - Autophagy in health and disease, Ma'ale Hachamisha, Israel

2008 Excellent Student of the Faculty of Science, ELTE

2008 1st award of Medical and Pharmaceutics Conference of Scientific Students' Associations, Semmelweis University

2008 3rd award of Biologist Conference of Scientific Students' Associations, ELTE

Memberships and conference organizations

2026 7th International Conference on D-Amino Acid Research, Chair of the meeting, Nice, France

2024 August Nominated member of the International Committee on D-Amino Acid Research, Japan

2018 First European Asymmetry Symposium (FEAS) Nice, France, Member of the organizing committee

Courses

2017 EMBO Laboratory Management Course for Group Leaders, Leimen, Germany

Languages

English (full professional level)

French (basic level)

German (basic level)

Hungarian (Mother tongue)

Professional skills

Molecular biology: cloning, semi-quantitative and quantitative PCR

Genetics: *Drosophila* genetics

Biochemistry: DNA- and protein electrophoresis, western blot, affinity chromatography

Models: *Drosophila*, cell cultures (*Drosophila*, mouse, and human)

Histology: immunohistochemistry, postembedding immunocytochemistry, fluorescent-, confocal and electronmicroscopy, *in situ* hybridization, histopathology, cryo- and resin embedding and sectioning, second harmonic generation microscopy

Physicochemistry: Synchrotron Radiation Circular Dichroism (SRCD) spectroscopy (trained at CNRS Synchrotron SOLEIL, France)

Others: *Drosophila* germ line transformation (trained at the BRC, Szeged, Hungary)

Teaching activity

University lecturer (as Ph.D. student), Comparative Anatomy practical course for B.Sc. students (during three semesters) and Comparative Histology for M.Sc. students (during one semester) at ELTE, Budapest, Hungary

Teaching assistant Comparative Anatomy practical course for B.Sc. students (during four semesters) at ELTE, Budapest, Hungary

Reviewing activity

2018-present *Autophagy*

2016-present *Current Biology*