

Hugues Berry

Inria Senior Researcher (DR1)

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A detailed CV, including full publication list is available at www.inrialpes.fr/Berry/Images/shortCVHB.pdf

Career summary

Since 2023, I am co-head of [AlstroSight](#), a joint research team between Inria, Hospices Civils de Lyon (Lyon University Hospital), Université Claude Bernard Lyon 1 and Theranexus, a biotech Company. Our overall goal is to develop innovative numerical methods for neuropharmacology, the search of new drug candidates to treat brain diseases.

From 2018 to 2023, I have served as deputy scientific director of Inria, in charge of the research in digital biology and health. My mission consisted in implementing Inria's strategy vis-à-vis our academic and industrial collaborators on the application of numerical sciences (applied mathematics, computer science, artificial intelligence) to biology or health.

I have been a tenured researcher with Inria since 2004, first in Saclay then in Lyon, France. Before that, I was an associate professor with the biology department of Cergy-Pontoise University (2000-2004).

A computational cell biologist, my research focuses on mathematical and computer models of the spatio-temporal dynamics of biochemical reactions involved in cell signaling, in particular in brain cells. My publications are mostly in journals for computational or experimental biology but also in computer science and applied mathematics.

Education

2008 – “Habilitation à diriger les recherches” in Computer Science, Orsay University, France

1999 – Ph.D. in Biochemistry, Université de Technologie de Compiègne, France

1994 – Engineering degree in Biotechnology, Université de Technologie de Compiègne, France

Major organizational activities

- Deputy scientific director of Inria for digital biology and health, 2018-2023
- Associate editor of *PLoS Computational Biology*, 2018-
- Elaboration of the [PEPR “Digital Health”](#), the French national program to fund research in digital health until 2030, 2021-2023
- Vice-chair of Inria's Evaluation Committee (vice-pdt Commission d'Evaluation), 2016-2018
- Chair of the search committee for junior research scientists (pdt jury CR2) of Inria Grenoble, 2014-2016.
- *Main committee memberships* :
 - Appointed member of INSERM's specialized committee for health technologies ([CSS7](#)), 2022-
 - Comité d'Expertise et Scientifique pour les Recherches, les Etudes et les Evaluations dans le domaine de la Santé ([CESREES](#)) of the French Health Data Hub, 2020-
 - Board of Aviesan, the French national alliance for life sciences and health, 2019-2023
 - Monitoring committee of the French Health Data Hub, 2018-2019
 - Steering committee, ARP “BiolPred” + Metaprogram “[DigitBio](#)” INRAe, 2018-

A selection of 8 publications

My publications include 60 articles in journals, 25 in international peer-reviewed conferences and 2 books.

- Dembitskaya Y, Perez S, Piette C, [Berry H](#), Magistretti PJ & Venance L (2022). *Proceedings of the National Academy of Sciences of the U.S.A.*, 119(47):e2212004119.
- De Pitta M & [Berry H](#), editors (2019) *Computational Glioscience*, Springer, 505 p
- Cui Y, Yang Y, Ni Z, Dong Y, Cai G, Foncelle A, Ma S, Sang K, Tang S, Li Y, Shen Y, [Berry H](#), Wu S & Hu H (2018) *Nature*, 554:323–327
- Cui Y, Prokin I, Xu H, Delord B, Genet S, Venance L & [Berry H](#) (2016) *eLife*, 5:e13185
- [Berry H](#), Lepoutre T & Mateos González Á (2016) *Acta Applicandae Mathematicae*, 145:15–45
- Coquel A, Jacob J, Primet M, Demarez A, Dimiccoli M, Julou T, Moisan L, Lindner A & [Berry H](#) (2013) *PLoS Computational Biology*, 9(4):e1003038
- Hashmi A, [Berry H](#), Temam O & Lipasti M (2011) in *38th ACM/IEEE International Symposium on Computer Architecture, ISCA*, San Jose, CA, USA
- [Berry H](#) (2002) *Biophysical Journal*, 83:1891–61901