

Hugues Berry

Inria Senior Researcher (DR1)

Deputy scientific director of Inria

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

Career summary

Since 2018, I have been serving as deputy scientific director of Inria, in charge of the research in digital biology and health. My mission consists 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 and in propounding potential new perspectives to our research teams working in those fields.

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 publication track comprises more than 70 articles, mostly in journals for experimental and computational 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-
- Associate editor of *PLoS Computational Biology*, 2018-
- 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 Research Center, 2014-2016.
- *Main committee memberships* :
 - 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-
 - Comité de la Recherche en Matière Biomedicale et de Sante Publique (CRMBSP) de l'AP-HP (Paris area University Hospitals), 2019-
 - Board of Aviesan, the French national alliance for life sciences and health, 2019-
 - Monitoring committee of the French Health Data Hub, 2018-2019
 - Monitoring committee, Action de Recherche Prospective Biologie Predictive INRA, 2018
 - Comité de Pilotage et de Programmation of the ANR, interCPP "Santé Numérique", 2018-2019

A selection of 8 publications

My publications include 53 articles in journals, 23 in international peer-reviewed conferences and 2 books.

- 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
- Xu H, Perez S, Cornil A, Detraux B, Prokin I, Cui Y, Degos B, Berry H, De Kerchove d'Exaerde A & Venance L (2018) *Nature Communications*, 9:4118
- 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