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## Christine GUÉRARD-HÉLAINE

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<https://iccf.uca.fr/recherche/biocatalyse-et-metabolisme/biocatalyse#/admin>

### Background

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**2018** Habilitation (HDR), University Clermont Auvergne, Clermont-Ferrand (France).  
**Since 2008** Assistant professor (MCF), University Clermont Auvergne, Clermont-Ferrand (France).  
**2003-2008** childcare obligations.  
**2000-2003** Assistant professor (MCF), University Pierre et Marie Curie, Paris 6 (France)  
**2000** Contractual assistant professor at University Blaise Pascal, Clermont-Ferrand (France)  
**1999** Postdoctoral researcher at McGill University, Montréal (Canada), supervision: Pr. R. Kazlauskas.  
**1995-1999** PhD at University Blaise Pascal, Clermont-Ferrand (France), supervision: Pr. J. Bolte.

### Responsibilities

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**Since 2021** Elected member of the UFR Chemistry council at UCA.  
**2017-2020** Elected member of the Scientific council at ICCF-UMR 6296.  
**Since 2017** Head of the team “Biocatalysis” (6 researchers) at ICCF-UMR 6296.  
**2010-2011** Elected member of the laboratory council at ICCF-UMR 6296.

### Research grants/awards

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**2021-2022** I-site AAP Emergence: project NOVEAM coordinated by Pr. M. Lemaire (UCA).  
**2020-2021** I-site AAP Emergence: project CATHY coordinated by Dr. A. Gautier (UCA).  
**2017-2018** I-site AAP Emergence: project ENCAPSMET coordinated by Pr. C. Forano (UCA).  
**2013-2017** Member of the European program COST CM1303 (SysBiotat) chaired by Prof. S. Riva, Milan (Italy)  
**2012-2015** Member of the BIO3 project funded by the Auvergne region (CPER 2012: innovapole axis).  
**2010-2012** New Researcher Prize awarded by the Auvergne region.  
**2009-2012** ANR-PRC “Genozyme” coordinated by Dr. M. Salanoubat, Génoscope Evry, France.  
**2008-2012** Member of the European program COST CM0701 (CASCAT) chaired by Prof. S. Riva, Milan (Italy)  
**1999** “Excellence” grant from the Auvergne region.

### Bibliometrics

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42 peer-reviewed publications, 3 books chapters, 2 patents.

### Research topics

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Use of enzymes (synthase, aldolases, transketolase, lipases, oxydo-reductases...) for the preparation of biologically active chiral compounds. Implementation of one-pot one-step cascade reactions. Biocatalysts immobilization, compartmentalization, for engagement in hybrid catalysis. Research of new catalytic activities, enzyme discovery or engineering.