

CURRICULUM VITAE

Cédric Vaillant

Born on 21/03/1972, three children

Chargé de Recherche CNRS (CR1)

PhD in Biological Physics

Engineer (Supélec)

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EDUCATION

1998-2001 : PhD thesis in biological physics.

1995-1996 : Master of Science in Physics : "Champs, Particules, Matières" (Univ. Paris VI).

1993-1996 : Engineering high school "Supélec".

RESEARCH EXPERIENCE

2006-present : CR1 CNRS, Laboratoire de Physique de l'ENS de Lyon

2004-2006 : Post-doctoral fellow at CNRS-Genopole in the group of Bernard Prum ("Laboratoire Statistique et Génome", Univ. of Evry, France). Project : "Genome and nucleosomes"

2002-2004 : Post-doctoral fellow at the Ecole Polytechnique Fédérale de Lausanne in the group of John Maddocks ("Laboratory for Computation and Visualization in Mathematics and Mechanics", EPFL, Lausanne, Suisse). Project : "Influence of the genome on DNA spatial organisation".

1998-2001 : PhD student at the Centre de Recherche Paul Pascal (CNRS, Bordeaux) with Alain Arnéodo. Project : "Influence of the genomic sequence on DNA elasticity".

1996-1998 : Scientific civil service at the Centre of Seismology of Mongolia (Ulan Bator).

PUBLICATIONS : 42

FUNDINGS :

-2016-2019 FRM Project : "The physicochemistry of nuclear reorganisation during cellular senescence" (Collaborator, Coord. : G. Cavalli)

-2016-2019 Inserm Project : "EpiLung : Discovery and modeling of epigenetically regulated genomic domains in lung cancer" (Collaborator, Coord : D. Jost, TIMC-IMAG Grenoble)

-2016-2019 ANR Project : "EpiDevoMath : Epigenetic regulation of development : towards a predictive mathematical modeling of three-dimensional genome folding and cellular memory" (Collaborator, Coord. : G. Cavalli, IGH Montpellier)

-2015-2017 : CNES-CADMOS MATISS Project : "Expérience embarquée pour le vol Thomas Pesquet (ESA 2016) pour étudier l'impact des surfaces innovantes sur la contamination bactérienne dans la Station Spatiale Internationale (coll. Saint Gobain, CEA LETI, Lab. Physique). (Collaborator, Coord. : L. Lemelle, LGL-ENSL)

-2013-2014 PEPS-PTI CNRS ("Physique Théorique et ses interfaces"). Project : "Folding of the Epigenome" (Coord.)

-2014 IXXI Rhône-Alpes. Project : "Theoretical modeling of the heterochromatin" (Coord.)

-2011-2013 : ANRS (National Research Agency for AIDS). Project : "Role of the chromatin in HIV-1 integration" (Collaborator, Coord. : Marc Lavigne, Inst. Pasteur)

-2006-2009 : ANR (National Research Agency). Project : “DNA sequence effects on the structure and dynamics of nucleosomes” (Collaborator, Coord. : Alain Arnéodo, ENS de Lyon)

PEOPLE TRAINING :

2 PhD students, 3 post-doctoral research fellows, 13 Master students.

RESPONSABILITIES :

- Associate member of the Epigenesys EC research network (<http://www.epigenesys.eu/en/>)
- Reviewer of international journals : Genome Research, Nucleic Acids Research, Journal of Molecular Biology, BMC Bioinformatics, Bioinformatics.
- Member of the scientific committee of SeMoVi (Séminaire rhône-alpin de modélisation du vivant : <http://www.biosyl.org/resources/semovi>)
- Member of the GDR “Architecture et Dynamique Nucléaire” (CNRS GDR3536)
- Member of the Scientific Advisory Board of the MuG project : <http://www.multiscalegenomics.eu/MuGVRE/>