

Catherine VÉNIEN-BRYAN, born 12th May 1960, married 2 children.

PREX2, Sorbonne Université (SU) IMPMC UMR7590 4 Place Jussieu 75005 Paris
catherine.venien-bryan@sorbonne-universite.fr: tel +33 144 274 585

 n°: 0000-0002-7328-3764

President of the French Society of Microscopy (2020-2021)



1. Academic

- 1998: **Habilitation à diriger des recherches (HDR)** Univ. J. Fourier Grenoble
1988: **PhD in Molecular Biophysics** University- Univ. P. & M. Curie Paris 6
1984: **Master (M2) in Molecular Biophysics** Univ. P. & M. Curie Paris 6
1982: **Bachelor Physical Chemistry** University Univ. P. & M. Curie Paris 6

2. Position hold and awards

- 2020 **President of the French Society of Microscopy** (700 members, 2020-2021) Vice-president in 2019 and 2022.
2009 **Prof. in Biophysics and Structural Biology** at Sorbonne University, co-head of Biophysics and Bio-informatics team (Bibip) at the IMPMC, head of the group "Structure and dynamics of signaling proteins"
2000 **Associate professor at University of Oxford** Biochemistry Depart
Group leader "Structures of macromolecules"
1993 **Assist. Professor (Biophysics)** in Dr R. Wade group IBS Univ. J. Fourier Grenoble,
1991 **Post-doct. Fellow, Univ. of Oxford** Biochemistry Department with Profs A. Watts and H. Saibil FRS. **EEC Bridge** and **Wellcome Trust** fundings
1988 **Post-doct. Fellow, EMBL Heidelberg** in Dr S. Fuller Structural Biology Program **EMBO** fellowship.

3. Scientific supervision

Young Researchers (PhD and Post-docs)

In total supervision of 15 PhDs and 8 contracts (Post-docs and Engineers)

Group Supervision

Alternate direction of BiBIP team (2009-2017) (up to 22 members) which comprises 3 groups including the one I lead (Structure and dynamics of signaling proteins) composed of **1PR** (myself) **2 MCF** (SU) **1 IE** (SU), **Post-docs**, **PhDs** and **Master** students (6 to 9 members in total).

4. Fundings

National agencies and foundation:

Univ. Of Oxford period: (2000-10) **Wellcome Trust** and **BBSRC** (coord. CVB) **MRC** (Partner CVB)

Since 2009: **ANR-EQUIPEX/ CACSICE** (2012-2024, C VB Partner) this allowed the creation of the nanoimaging facility equipped with state-of-the-art cryo-microscopes (krios titan, Glacios) essential for my research. **ANR** 3 grants in 2009, 2017, 2020(Contribution of 340 k€ for my group)

AFM : (Coord. CVB 2020-2024, 360 k€)

Sorbonne-Université: Programme convergence(2011,2x 25k€,CVB) Initiative isim 2021 (75k€, C VB) emergence 2023 (70k€, part. C VB)

CNRS : Cristech (2014 10 k€, CVB) Défis Instrumentaux (2016 12 k€ CVB) Auto-organisation (2020 2X 25k€, C VB, partner)

International Agencies and foundations

European Union:

- 2004: European Commission HPRN-CT-2002-00252 (coord. M. Wilmans)
- 2006: European Commission 6th framework program No 513770 (coord. JL Popot)
- 2010 Marie-Curie program FP7 post-doc fellow for R. de Zorzi in my group
- 2021 Marie-Curie program Horizon 2020 post-doc fellow for C. Fernandes in my group

Human Frontier Science Program (HFSP) 2001 RG 223/2000, coord. JL Popot)

Campus France Tournesol 2013-2015 Collaboration with Prof. F. Sobott at Antwerp.

Industrial interactions/Collaborations/Contracts

Servier (from 2010-2018) 3 research contracts for a total of 430 k€ (coord. CVB)

Sanofi (2010-2012) Service contact (30 k€/an coord. CVB)

5. Participation to National and International Network

Local network : 2020- Isim « Initiative Sciences et ingénierie moléculaires » supported by SU
National networks (GDR “groupe de recherche » supported financially by CNRS) From 2009 to now my group was involved in 3 GDRs one is still active: GDR APPICOM (2002-2024).

International networks

- Since 2010, I was involved in 2 EU-Marie Curie grant. FP7 and Horizon2020 (2010 and 2021)
- EU COST action D22 lipid-protein interaction2000-2006

6. Expertise activities

- **Recurrent Participation in recruitments boards** in France and abroad (KTH Stockholm, University of Oxford, SU, Univ. Lyon, Bordeaux, Strasbourg, Agro-Paris-Tech)
- **Recurrent member of defense juries**
- 38 **Juries of PhDs** 23 as president in France and abroad (UK, Sweden and Canada)
- 6 **Juries of “Habilitation à Diriger des Recherches » HDR**, 5 as president (one in Sweden)
- **Referee for peer review journals:** eLife, Nature Com., Nature Struct & Mol. Biol., PNAS , ACSNano, Cur. Op. Struct. Biol., Biophysical J., Structure, J. Mol. Biol. FEBS Journal, ACS journals
- **Expert for grant agencies** Wellcome Trust, Medical Research Council, (MRC-UK) BBSRC, Human Frontier Science Program, British Heart Foundation, EC Grants Horizon 2020, Israel Science foundation (ISF). French ANR. Univ. Saclay, Nantes, Strasbourg.
- **Expert for proposals evaluation for European infrastructures: iNext-INSTRUCT** since 2017 and CERIC-ERIC since 2019 (about 60 proposals examined)
- **Member of various councils:**
- French National University Council (CNU64)** 2016-2020:
- Member of the High Council for Evaluation of Research and Higher Education (**Hcéres**) 2017 and 2021
- since 2023: Member of the Scientific Council for the installation of the cryo-EM facility in Athens** (National Hellenic Research Foundation)

7. Participation to Societies – Scientific animation (meeting organizations)

Participation to scholarly societies

- Sfmμ French Society of Microscopy** *president elected* (2020-21) *Vice president* (2019 and 2022) about 700 members <https://sfmu.fr/fr/> .
- From 2023: *secretary* of the board of the **European Microscopy Society (EMS)**
- College of academic French societies** Participation of the creation in 2019 <https://societes-savantes.fr>
- BPS:** American Biophys. Soc. (US)

Meeting Organization/ workshops:

National From 2013 to 23: participation to the organization of the 6 congresses of the **Sfmμ**.

International:

- 2024: **EMC2024** Advisory board European Microscopy Congress Copenhagen (July 2024)
 - 2016 **EMC2016** Scientific Committee European Microscopy Congress, Lyon <http://www.emc2016.fr/en/>
 - 2014: Steering committee “**International year of the crystallography**” AICR2014 at **UNESCO** Paris.
 - 2012 Organization “**Oxford-CNRS membrane proteins**” Paris
 - 2014 co-organization “**3D Electron Microscopy from Molecule to Organism**” Paris (150 attendees)
- Participation to 9 International Workshops see details page 32

5. Media/outreach/other actions bringing science to the general public

- 2023 Participation at “**1000 chercheurs**” organized by AFM-téléthon in order to raise awareness of medical research and scientific professions.50 minutes in college A. Camus, Bois-Colombes.
- 2022- Member of the **steering committee for the Plan Science at school** (see p. 33) “Repenser collectivement la formation initiale des enseignements.”
- 2016- **Recurrent Seminars for the general public** at the Romanian Embassy (hotel de Béhague), invited by Melania Kiel.
- 2014: During **AICR2014, organization of a crystal growing competition** in high schools in various French regions.
- 2011: **National mathematical games committee**_booklet Maths Chimie Express

Summary of the scientific production

-**75 peer-reviewed publications in international journals**, including 1 Science advances 1 Circulation, 1 Nature Nanotechn, 1 Angew. Chem. Int Ed, 2 PNAS, 1 Nat Struct Mol Biol, 1 EMBO J, 1 Mol Cell, 1 Nat. Com., 6 J. Mol Biol., 2 Structure...

-**1 Book, 4 book chapters**

(h = 34 Google Scholar)

- **2 Guest Editor**

- **20 Conference proceedings**

- **63 invited conferences & seminars** including Gordon conferences; Biophysical Society Meeting (San Francisco, Virtual, Baltimore, San Francisco); International Union of Physiological Sciences (IUPS) Birghmingham; MRC Cambridge; University of Oxford; University California (UC) Davies; Birkbeck College London; University of Warwick; University of Sheffield; Max Planck Institute Frankfurt; Paul Scherrer Institute (PSI) Zurich; Biozentrum, Basel; EMBL Heidelberg;; Université de Montréal; Institut Pasteur Paris; ENS Paris-Saclay; LPS Orsay; LP2M-Nice; IBS Grenoble; LEBS-CNRS; IBCP-LYON; SERVIER (Croissy s/Seine), SANOFI (Vitry s/Seine)

- 27 selected oral communications in meetings

- 29 posters communications

-**15 Protein structures deposited** at the Protein Data Bank PDB and EMDB

- One Software « **MDeNM-EMfit** »