CURRICULUM VITAE STEPHANIE MANEL

Name: Stéphanie Manel
Current activity: Directeur d'Études (Professor) 1ère classe
Professional Address: PSL University, École Pratique des Hautes Études (EPHE)

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Full publication list:
- https://www.researchgate.net/profile/Stephanie_Manel2/research
- https://sites.google.com/site/stephaniemanel/publications-2
- https://scholar.google.fr/citations?user=fCTX6G8AAAAJ&hl=en

Research themes

Genetic diversity, population genetics, conservation biology, spatial statistics, marine reserves, spatial modelling

Education and diplomas

2005 : Habilitation à diriger des recherches, University Joseph Fourier, Grenoble
1995 : PhD in Analysis and modelling of biological system, University Claude Bernard, Lyon
1992 : Master in Analysis and modelling of biological system; Master of molecular and cellular biology
1989-1993 : Ecole Normale Supérieure Lyon (high school)

Academic positions

2014 – now : Directeur d'Études, Ecole Pratique des Hautes Études, Paris France
2009-2014 : Professor, University of Marseille**,**
1999-2009 : Assistant Professor, University Joseph Fourier, Grenoble
2007-2009 : Delegation CNRS
1996-1999 : Engineer, University Pau & Pays de l'Adour, France

Awards, Distinction and Fellowships

2020: Keynote speaker to four-day conference on "Constraints on range limits along environmental gradients" (Monte Verita, Ascona, Switzerland, 19-23 July)
2019: Invited researcher in the working group "Dynamics of ecological systems: stakes, data and models", Institute Pascal, Paris Saclay (1 week in July)
2016: Visiting Professor: Ecole Polytechnique Fédérale de Lausanne (3 months)
2015: International Journal of Molecular Science 2015's Best Paper Award
2015-2018: Evaluation of candidate for promotion (advancement to Professor): University of Montreal, Canada; University of California, USA (2018) ; EPFL, Lausanne Switzerland
2013-2015: Invitation by NEscent (Durham, USA): Population Genetics R hackathon (2015;1 week); Landscape genomics working group (2013;1 week)
2011: Invitation by the NCEAS (Santa Barbara, USA), Landscape genetics (2 weeks)
2009: Nominated junior member at the French University Institute (Institut Universitaire de France) (2009)
2007: Bourse Fulbright, 3 months stay, University Utah, USA

Mains responsibilities

- **National**

2015-2018 : Scientific committee of the GDR « Approche Interdisciplinaire de l'Évolution Moléculaire (AIEM) » (http://wwwabi.snv.jussieu.fr/aiem/CS.html)

2014-2017: participation to 3 recruitment committees (2 PR, 1 MCF), section 67

2007-2009 : Appointed member of the «conseil national des universités (CNU, section 67) »

- **Local**

2020- xx: Direction of the Team Biogeography and Ecology of Vertebrates at CEFE

2010- 2019: Supervision of 10 PhD students and 7 post doc most of them occupying an position in research or industry, and 1 engineer.

2014- : Animation of the Journal club genomic at the CEFE (genomique@cefe.cnrs.fr)

2014-2019: Coordinator of the communication committee at the CEFE

- **Teaching**

2015-xx : In charge of the module "Conservation Sciences" M2 PSL-EPHE SDV, B&E

2014-xx: In charge of the module "Statistic 2" M2 BSE EPHE Co-responsability

Project coordination

Scientific leader of 11 research projects at the national and international levels for a total amount of about 3 million € among which:

Principal investigator of the following research projects in the last 5 years:

2020-2021*:* Montpellier Excellence University « *eDNA and population genetics*» 20 k€

2017-2020 : European project BIODIVERSA « benefit of marine reserves » 1199 k€

2017-2020 : Monaco Exploration: Megafaune. Co-PI with 4 other researchers, 1 200 k€

2017-2018: Paris Sciences et Lettres « Modelling population resilience» 27 k€

2016-2018 : CNRS -PICS Canada : «Marine genetic connectivity» ; 18 k€

2015-2018 : CNRS ECOS NORD « Landscape genetic of trout »: 2 travels to Mexico/year

2014-2017 : Foundation TOTAL « Optimizing the location of marine protected areas » 295 k€

2014-2017 : Company Florimond-Desprès «Genomic variation of sugar beet » 136 k€

2012-2014 : Foundation for Research and Biodiversity (FRB) « Modelling connectivity among MPA under climate change scenarios» 237 k€

Co-investigator of following research projects:

2018-2022 : ANR « SEAMONTS ». PI: Laurent Vigliola, UMR Entropie 505 k€

2014-2018 : European Climate Smart Agriculture « Grasslandscape » PI : JP Sampoux (INRA Lusignan); 1199 k€

Publications

Statistics: >7000 citations (3 Highly Cited papers in 2020), h=36 (ISI WEB, May 2020)

-Among those 100 articles: 1 in PNAS, 1 in Nature Communications, 2 in Ecology Letters, 6 in Trends in Ecology and Evolution

Ten selected recent papers

1-Manel S, Guerin PE , Mouillot D., Blanchet S., Velez L., Albouy C, Pellisser L (2020) Global determinants of freshwater and marine fish genetic diversity. Nature Communications. 2020.

2-Razgour O, Forester B., Taggard JB, Bekaert M, Juste J, Ibanez C, Puechmaille J, Fernandez-Novella R, Alberdi A, Manel S (2019) Considering adaptive genetic variation in climate change vulnerability assessment reduces species range loss projections. Proceedings of the National Academy of Sciences, 116:10418-10423.

3-Manel S, Loiseau N., Andrello M, et al (2019). Benefits of Marine Reserves: Myth or Reality? Trends in Ecology & Evolution. 34:342-354.

4-Dalongeville A., Andrello M., Mouillot D., Lobreaux S., Fortin M. J., Lasram F., Belmaker J., Rocklin D., Manel S. (2018) Geographic isolation and larval dispersal shape seascape genetic patterns differently according to spatial scale. Evolutionary Applications. 11: 1437-1447.

5-Boussarie Germain et al. (2018) Environmental DNA illuminates the dark diversity of shark. Sciences Advances. 4: eaap9661.

6-Magris RA, Andrello M, Pressey RL, Mouillot D, Dalongeville A, Jacobi MN, Manel S. (2018) Biologically representative and well-connected marine reserves enhance biodiversity in conservation planning. Conservation Letters. 11:UNSP e12439.

7-Razgour O, Taggard JB, Manel S, Juste J, Ibanez C, Rebelo H, ALberdi A, Gareth J, Park K (2018) An integrated framework to identify wildlife populations under threath from climate change. Molecular Ecology Resources. 18:18-31.

8-Andrello A, Guilhaumon F, Albouy C, Parravicini V, Scholtens J, Verley P, Barange M, Sumaila UR, Manel S, Mouillot (2017) Global mismatch between fishing dependency and larval supply from marine reserves? Nature Communications. 8:16039.

9- Kamvar ZN, Lopez-Uribe MM, Coughlan S, Grunwald NJ, Lapp H, Manel S (2017) Developping educational resources for population genetics in R: an open and collaborative approach. Mol Ecol Ress. 17: 120-128.

10- Andrello M. and S. Manel (2015) MetaPopGen: an R package to simulate population genetics in large size metapopulations. Molecular Ecology Ressources. 15: 1153-1162.