

CURRICULUM VITAE

Dr. Marie MANCEAU

Born on June 5th, 1979

French Nationality

Center for Interdisciplinary Research in Biology (CIRB)

Collège de France

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Current Position

Group Leader

Center for Interdisciplinary Research in Biology (CIRB), Collège de France, Paris, France.

Education

2007 – 2013 Postdoctoral research fellow in Evolution and Developmental Biology
Harvard University; Advisor: Dr. Hopi Hoekstra

2003 – 2007 Ph.D. in Developmental Biology
University Aix-Marseille II, France ; Advisor: Dr. Christophe Marcelle

2002 – 2003 DEA (Valedictorian; Master II) in Developmental and Cellular Biology
University Aix-Marseille II, France ; Advisors: Drs. C. Marcelle and D. Gros

2001 – 2002 Maîtrise (Master I) in Developmental Biology and Genetics
University Aix-Marseille II, France.

1998 – 2001 License in Cell Biology and Genetics
Louis Pasteur University, France.

Visiting Scholar

Molecular Oncology Institute INSERM U119; Advisor: Dr. P. Pontarotti

Teaching Experience

2013 – 2018 Guest Lecturer, Colour Pattern Evolution and Genetics (6 lectures)
Ecole Normale Supérieure, Paris, France,

Guest Lecturer, Evo-Devo, Curie Institute Developmental Biology Course (1lecture).

2008 – 2011 Guest Lecturer, Model Organisms (3 lectures)

Dept. Molecular and Cellular Biology, Harvard University, USA.

Mentor for two graduate students and one undergraduate student

Dept. Organismic and Evolutionary Biology, Harvard University, USA.

2003 – 2006 Teaching Assistant and Guest Lecturer, Molecular and Cellular Biology

Mentor for two undergraduate students

University Aix-Marseille II, France.

Grants, Fellowships and Awards

2019 CNRS Bronze Medal Laureate

HSFP Collaborative Grant (with Matthew Shawkey; funding started in 07/2019)

2017 Labex MemoLife collaborative Grant (with Dr. Morin lab; funding started in 02/2017).

2015 European Research Council (ERC) Starting Grant (funding started in 06/2015).

2014 IDEX-PSL (Paris Science et Lettres) Research Grant (funding started in 01/2015).

2012 INSERM-CNRS ATIP / AVENIR Research Grant (funding started in 08/2013).

2012 Harvard University, Museum of Comparative Zoology Putnam Expeditionary Grant.

2008 Harvard University, Museum of Comparative Zoology Barbour Expeditionary Grant.

2007 French Association against Myopathy (AFM) PhD Fellowship.

2003 French Ministry of National Education Research and Technology PhD Fellowship.

French Ministry of National Education Research and Technology Teaching Assistant Fellowship.

2002 French Ministry of National Education Research and Technology DEA Fellowship.

2001 University Aix-Marseille II CROUS Master Fellowship.

Professional Service

Reviewer for *Science*, *Genes*, *Journal of Heredity*, *Journal of Zoology*, *Genetics*, *PloS Genetics*, *Evolution*, *Molecular and developmental Evolution*, *Development*, *PNAS*, *Current Biology*.

Field Work

Organization and collection of bird and rodent adult individuals, fertilized eggs, embryos, and specimens from natural populations, zoos, museums, and local suppliers in Massachusetts, Nebraska, New Mexico, Florida, The Falkland Islands, France, Australia, Ireland, the UK, Germany, and Italy.

Guiding Activity

IAATO and AECO Certified Expedition Guide and Lecturer in Greenland, Svalbard (Spitzbergen), South Georgia, the Falklands, and the Antarctic Peninsula for Ponant (France) and Oceanwide Expeditions (The Netherlands). Holder of zodiac and small boat driving licenses.

Memberships and Advisory Boards

Member of the ANR 2017 selection committee.
Member of the GDR "Groupe Aviaire", Paris, France.
Member of the French Society for Developmental Biology (SFBD).
Member of the Scientific Advisory Board of the Polar World Museum, Les Rousses, France.
Member of the Developmental Biology Jury for Young Researchers in Life Science, Pasteur Institute, France.

Invited Presentations

General public presentations:

2019 Session speaker, **Les 80 ans du CNRS au Collège de France: relève de l'excellence**, Paris, France.
2016 *Keynote Speaker*, **Mix-IT Conference**, (Basic Science and Evo-Devo), Lyon, France.
2015 *Keynote Speaker*, **Podcast Science, Freestyle 14** (Research and Antarctica), Paris, France
2014 – 2019 *Lecturer* onboard Expeditions Ships (Genetics, Ecology and Evo-Devo of Polar fauna; ~ 80 conferences).

Academic presentations:

2019 *Session speaker*, Biodiversity, Epigenetics and Evolution symposium, **Collège de France**, France
External Seminar series, Department of Zoology, Basel University, Switzerland
2018 *Session speaker*, 10th Avian Model System conference, **Pasteur Institute**, Paris, France.
Session speaker, "Morphogens on the move" symposium, **Collège de France**, Paris, France.
2017 *External Seminar series*, **Oceanographic observatory**, Banuyls-sur-Mer, France.
2016 *Session speaker*, Journées ATIP/Avenir, **Gif-sur-Yvette**, France.
Session speaker, School of Life and Env. Science, **Deakin University**, Australia.
External Seminar series, Department of Zoology, **Basel University**, Switzerland.
2015 *External Seminar Series*, Department of Developmental Biology, **Jussieu University**, France.
Session speaker, **Mechanisms of Evolutionary Changes Meeting**, Les Treilles, France.
External Seminar series, Department of Ecology, **Paul Sabatier University**, Toulouse, France.
2014 *External Seminar series*, Department of Zoology, **Oxford University**, UK.
External seminar series, **Paris Museum of Natural History** (MNHN), France.
External Seminar series, **Australian Regenerative Medicine Institute**, Melbourne, Australia.
Session speaker, Evolution and Development Club, **Jacques Monod Institute**, Paris, France
Session speaker, Journées PSL, **Ecole Normale Supérieure**, Paris, France.
2013 *Session speaker*, Journées du CIRB, **Collège de France**, Paris, France.
2012 *External Seminar series*, Institute of Developmental Biology, **Marseille University**, France.
Internal Seminar series, **Collège de France**, Paris, France.
External Seminar series, **Jacques Monod Institute**, Paris, France.
External Seminar series, **Institute of Functional Genomics of Lyon** (IGFL), France.
External seminar series, **The Rockefeller University**, New York, USA.
2011 *External Seminar series*, **Jacques Monod Institute**, Paris, France.
External Seminar series, **Pasteur Institute**, Paris, France.
External Seminar series, **Max Planck Institute (Mol. Cell Biol. and Gen.)**, Dresden, Germany.
External Seminar series, **Max Planck Institute (Dev. Biology)**, Tuebingen, Germany.
External Seminar series, **Max Planck Institute (Mol. Genetics)**, Berlin, Germany.
2010 *Session speaker*, **European Evo-Devo Conference**, Paris, France.
Session speaker, Evolution and Genetics of Pigmentation Symposium, **Radcliffe Institute**, USA.
External Seminar series, Cutaneous Biology Research Center, **Mass. General Hospital**, USA.
Internal Seminar series, Evo-Devo Club, **Harvard University**, USA.
2009 *Session speaker*, **Experimental Biology 2009 Conference**, New Orleans, USA.
Internal Seminar speaker, Evo-Devo Club, **Harvard University**, USA.
2007 *External Seminar series*, Dept. of Organismic and Evol. Biology, **Harvard University**, USA.
2006 *Session speaker*, **Myogenesis Meeting**, Paris, France

Academic position offers

2011 *Max Planck Research Group Leader*, Mol. Cell Biol. and Genetics Institute, Dresden, Germany.
Max Planck Research Group Leader, Institute for Dev. Biology, Tuebingen, Germany.
Max Planck Research Group Leader, Institute for Molecular Genetics, Berlin, Germany.
Group Leader, Department of Developmental Biology, Pasteur Institute, France.
2012 *Group Leader*, Center for Interdisciplinary Research in Biology, College de France, France (accepted in January 2013).
Group Leader, Institute of Functional Genomics of Lyon, France.

Group Leader, Institute Jacques Monod, Paris, France.

Publications

- Haupaix, N and Manceau, M. The embryonic origin of periodic color patterns. *Developmental Biology, in review*
- Bailleul, R., Desmarquet-Trin-Dinh, C., Hidalgo, M., Curantz, C., Touboul, J., and **Manceau, M.** Symmetry breaking in the embryonic skin triggers a directional and sequential front of competence during plumage patterning. *bioRxiv* 491092; doi: <https://doi.org/10.1101/491092> and *PLoS Biology, in review*
- Haupaix, N., Curantz, C., Bailleul, R., Beck, S., Robic, A. and **Manceau, M.** The periodic coloration in birds forms through a prepattern of somite origin. *Science* 361, 6408 (2018).
- Neguer, J. and **Manceau, M.** Embryonic Patterning of the Vertebrate Skin. *Reviews in Cell Biology and Molecular Medicine* 3; 1 (2017).
- R. Mallarino, H.E. Hoekstra and **M. Manceau**. 2016. Developmental genetics in emerging rodent models: case studies and perspectives. *Current Opinions in Genetics and Development*, 331:182-186.
- R. Mallarino, C. Henegar, M. Mirasierra, **M. Manceau**, C. Shradin, M. Vallejo, S. Beronja, G. S. Barsh, and H. E. Hoekstra. 2016. *A/x3* regulates the spatial differences in hair pigment underlying stripe patterns in rodents. *Nature*, 539:518-523.
- F. Friocourt, A.G., Lafont, B. Pain, **M. Manceau**, S. Dufour and A. Chedotal. Recurrent *Dcc* gene losses during bird evolution. 2017. *Scientific Reports*, 37569.
- **M. Manceau**, V. Domingues, R. Mallarino and H.E. Hoekstra. 2011. The developmental role of *Agouti* in the evolution of color pattern. *Science*, 331:1062-5.
- H.C. Metz, **M. Manceau**, H.E. Hoekstra. 2011. Turing patterns: how the fish got its spots. *Pigment Cell and Melanoma Research*, 24(1):12-4.
- **M. Manceau**, V. Domingues, C.R. Linnen, E.B. Rosenblum and H.E. Hoekstra. 2010. Convergence in pigmentation at multiple levels: mutations, genes and function. *Philosophical Transactions of the Royal Society B*, 365:2439-50.
- E.P. Kingsley, **M. Manceau**, C.D. Wiley and H.E. Hoekstra. 2009. Melanism in *Peromyscus* is caused by independent mutations in *Agouti*. *PLoS One*, 4:e6435.
- M. Lagha, J.D. Kormish, D. Rocancourt, **M. Manceau**, J.A. Epstein, K.S. Zaret, F. Relaix and M.E. Buckingham. 2008. Pax3 regulation of FGF signaling affects the progression of embryonic progenitor cells into the myogenic program. *Genes and Development*, 22(13):1828-37.
- **M. Manceau**, J. Gros, K. Savage, V. Thomé, A. McPherron, B. Paterson and C. Marcelle. 2008. Myostatin promotes the terminal differentiation of embryonic muscle progenitors. *Genes and Development*, 22(5):668-81.
- J. Gros, **M. Manceau**, V. Thomé and C. Marcelle. 2005. A common somitic origin for embryonic muscle progenitors and satellite cells. *Nature*, 435(7044):954-8.
- **M. Manceau**, C. Marcelle and J. Gros. 2005. A common somitic origin for embryonic muscle progenitors. *Med. Sciences*, 21(11):915-7.