Curriculum Vitae Dr Julien Massoni
Department Ecology and Evolutionary Biology
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Mail: Massoni.julien@gmail.com
Born 26/10/1984 in Paris, France
French citizenship

Education / Professional experience

2015-present: Postdoc position on the evolution of functional traits and plasticity in the angiosperm genus *Pelargonium*

2013-2014: Temporary lecturer and research assistant at University Paris-Sud, France (one-year contract allowing me to finish my PhD while gaining further teaching experience)

2010-2014: PhD on "Phylogeny, molecular dating and floral evolution of Magnoliidae (angiosperms)", University Paris-Sud, France / Advisor: Dr Hervé Sauquet / Molecular phylogeny, floral morphology, molecular dating, diversification, reconstruction of ancestral traits

2008-2010: Master's degree in Systematics, Evolution and Paleo-biodiversity, University Pierre et Marie Curie, France / Internship: systematic and phylogeny of parasitic nematodes / Internship advisors: Dr Fabienne Audebert (University Pierre et Marie Curie) and Dr Marie-Claude Durette-Desset (Museum National d'Histoire naturelle de Paris)

2004-2008: Biology undergraduate studies, University Pierre et Marie Curie, France / Volunteer internship: taxonomy and biology of parasitic nematodes of mammals / Internship advisors: Dr Fabienne Audebert, Jimmy Cassone (Engineer, Museum National d'Histoire naturelle de Paris) and Dr Marie-Claude Durette-Desset

Publications

6. Massoni J., Couvreur L.P.T. and Sauquet H. (2015) Five major shifts of diversification through the long evolutionary history of Magnoliidae (angiosperms). BMC Evolutionary Biology 15:49.

5. Massoni J., Doyle J. and Sauquet H. (2015). Fossil calibration of Magnoliidae, an ancient lineage of angiosperms. Palaeontologia Electronica 18.1.2FC: 1-25.

4. Massoni J., Forest F. and Sauquet H. (2014). Increased sampling of both genes and taxa improves resolution of phylogenetic relationships within Magnoliidae, a large and early-diverging clade of angiosperms. Molecular Phylogenetics and Evolution 70:84-93.

3. Massoni J., Durette-Desset M.C., Quéré J.P. and Audebert F. (2012). Redescription of *Heligmosomoides neopolygyrus*, Asakawa and Ohbayashi, 1986 (Nematoda: Heligmosomidae) from a chinese rodent, *Apodemus peninsulae* (Rodentia: Muridae); with comments on *Heligmosomoides polygyrus polygyrus* (Dujardin, 1845) and related species in China and Japan. Parasite 19: 367-374.

2. Massoni J., Cassone J., Durette-Desset M.C. and Audebert F. (2011). Morphogenesis and life cycle of *Graphidium strigosum* (Trichostrongylina, Haemonchidae) in the rabbit (*Oryctolagus cuniculus*) comparison with Haemonchidae parasites of ruminants. Parasitology Research 109: 25-36.

1. Massoni J., Durette-Desset M.C., Quéré J.P. and Audebert F. (2010). Description of a new species of *Heligmosomoides* (Nematoda: Heligmosomidae) parasitic in *Microtus limnophilus* (Rodentia: Cricetidae) from Rangtang, Sichuan, China. Parasite 17: 17-22.

Publications in preparation

- **Massoni J.**, von Balthazar M., Couvreur L.P.T., Staedler Y., Schönenberger J. and Sauquet S. Tracing floral evolution with higher taxonomic resolution leads to alternative portraits of the ancestral flowers of Magnoliidae.

- Petit Jean C. & **Massoni J.** Evolution of methanogenesis and additional intrinsic traits in the archeae domain of life.

- **Massoni J.** Pollination systems of Magnoliidae and their link with floral diversification.

- Sauquet H., Schönenberger J., von Balthazar M., Bailes E., Barroso de Morais E., Bull-Hereñu K., Carrive L., Chartier M., Chomicki G., Coiro M., El Ottra J.H.L., Epicoco C., Jabbour F., Haevermans T., Hernández R., Löfstrand S., Luna J.A.**, Massoni J.**, Nadot S., Prieu C., Reyes E., dos Santos P., Schoonderwoerd K., Simonnet F., Soulebeau A., Städler Y., Tschan G., Leung A.W.-S., Magallón S. eFLOWER: A framework for understanding the evolution and diversification of flowers.

Oral communications

Carrive L., **Massoni J.**, Sauquet H. (2014). Perianth Evolution in Magnoliidae (Angiospermae). Is there a link between phyllotaxis and fusion? Journée 2014 de la Société Française de Systématique (Paris, France)

Sauquet H., Schönenberger J., von Balthazar M., Bailes E., Barroso de Morais E., Bull-Hereñu K., Carrive L., Chartier M., Chomicki G., Coiro M., El Ottra J.H.L., Epicoco C., Jabbour F., Haevermans T., Hernández R., Löfstrand S., Luna J.A.**, Massoni J.**, Nadot S., Prieu C., Reyes E., dos Santos P., Schoonderwoerd K., Simonnet F., Soulebeau A., Städler Y., Tschan G., Leung A.W.-S., Magallón S. (2014). eFLOWER: Synthesizing data on flowers in the 21st century. UNESCO International Conference: "Botanists of the Twenty-first Century: Roles, Challenges and Opportunities" (Paris, France)

Sauquet H., Schönenberger J., von Balthazar M., Bailes E., Barroso de Morais E., Bull-Hereñu K., Carrive L., Chartier M., Chomicki G., Coiro M., El Ottra J.H.L., Epicoco C., Jabbour F., Haevermans T., Hernández R., Löfstrand S., Luna J.A.**, Massoni J.**, Nadot S., Prieu C., Reyes E., dos Santos P., Schoonderwoerd K., Simonnet F., Soulebeau A., Städler Y., Tschan G., Leung A.W.-S., Magallón S. (2014). eFLOWER: A framework for understanding the evolution and diversification of flowers. Evolutionary Plant Radiations Meeting (Zurich, Switzerland)

Massoni J. (2014). Phylogeny, molecular dating, and floral evolution of Magnoliidae (Angiospermae). **Invited seminar talk** at the institute of Systematics, Evolution, and Biodiversity of the Muséum National d'Histoire naturelle (Paris, France)

Massoni J. (2014). Evolutionary history of a large clade of angiosperms, Magnoliidae. **Invited seminar talk** at Institute of Microbiology of the ETH of Zurich (Switzerland)

Sauquet H., von Balthazar M., Carrive L., Epicoco C., Haevermans T., Jabbour F., **Massoni J.**, Nadot S., Prieu C., Simonnet F., Tschan G., Schönenberger J.. (2013). eFLOWER: A framework for

understanding the evolution and diversification of extant and fossil flowers. Botany 2013 (New Orleans, U.S.A.)

Massoni J., von Balthazar M., Carrive L., Couvreur T., Schönenberger J., Städler Y., Sauquet H. (2013). Fossil calibration of Magnoliidae: Thorough background research significantly improves reliability of molecular age estimates. **Invited communication**. Botany, 2013 (New Orleans, Louisiana, U.S.A.)

Massoni J., Felix Forest F., Sauquet H. (2012). Evolutionary history of a 10,000-species clade of angiosperms: reconstructing the phylogeny of magnoliids as a whole. Journées d'automne de la Société Française de Systématique 2012 (Paris, France)

Massoni J., Forest F., Sauquet H. (2012). Evolutionary history of a 10,000-species clade of angiosperms: reconstructing the phylogeny of magnoliids as a whole. Botany 2012 (Columbus, U.S.A.)

Massoni J., Forest F., Sauquet H. (2012). Evolutionary history of a 10,000-species clade of angiosperms: reconstructing the phylogeny of magnoliids as a whole. **Invited seminar talk** at the laboratory of Tropical Botany of the University of Göteborg (Sweden)

Massoni J., Forest F., Sauquet H. (2012). Evolutionary history of a 10,000-species clade of angiosperms: reconstructing the phylogeny of magnoliids as a whole. PhD days (Orsay, France)

Massoni J. & Sauquet H.. (2011). Evolutionary history of a 10,000-species clade of angiosperms: reconstructing the phylogeny of magnoliids as a whole. 8th Biennial meeting of the Systematic Association 2011 (Belfast, UK)

Massoni J. & Sauquet H. (2011). Evolutionary history of a 10,000-species clade of angiosperms: reconstructing the phylogeny of magnoliids as a whole. Young Systematists' Forum 2011 (London, UK)

Posters

Carrive L., **Massoni J.**, Sauquet H. (2014). Phylogenetic analysis of Magnoliidae fossil flowers. Young Natural History Scientists' Meeting (Paris, France).

Massoni J., Durette-Desset M.-C., Audebert F. (2010). The enigma of *Paraustrostrongylus bettongia* (Nematoda) in Australia. International Congress of Parasitology 2010 (Melbourne, Australia)

Grants

Collaborator on 2013-2016, **Research grant from the French National Research Agency** (ANR Jeunes Chercheuses et Jeunes Chercheurs) coordinated by Hervé Sauquet. Floral evolution in Magnoliidae: an integrated phylogenetic and Evo-Devo approach (MAGNIPHY). 250,000 €

Vernon I. Cheadle Student Travel Award. Botanical Society of America (2013): 500 Dollars

Travel grant from the Institut Diversité, Ecologie et Evolution du Vivant (2013): 500 Euros

Travel grant from the Institut Diversité, Ecologie et Evolution du Vivant (2012): 480 Euros

Travel grant from the Institut Diversité, Ecologie et Evolution du Vivant (2011): 387 Euros

Grant from the Société Botanique de France (2011): 2000 Euros

Student Grant of Systematic Association (2011): 149.5 Euros

Thesis scholarship from the Ministry of Sciences and higher education of France (2010-2013)

Teaching experience

DLBI 153 Flowering plant identification (University Paris-Sud): 26 hours

DLBI 102 Diversity of life (University Paris-Sud): 54 hours

DLBI 103 Genetics and ecology (University Paris-Sud): 92 hours

DLBI 207 Field work L2 (University Paris-Sud): 49 hours

DLBI 322 Botanic systematics (University Paris-Sud): 30 hours

DLBI 321 Botany applied to natural environments (University Paris-Sud): 26 hours

DLBI 301P Biodiversity (University Paris-Sud): 3 hours

DLBI 300P/309P Referee of two students during their professional internship: 25 hours

Supervision

2013: Laetitia Carrive (Master student): integration of the fossil record in the extant phylogeny of Magnoliidae

2012: Lucie Rabeau (Master student): evolution of the pollination in Magnoliidae

Memberships

2010-2013: Elected member in the board of the French Society of Systematics (website manager)

2010-present: member of the French Society of Systematic

2010- present: Member of the Botanical Society of America

2010- present: Member of the American Society of Plant Taxonomists

2010- present: Member of the Systematic Association

Lab responsibilities

Associate representative of non-permanent staff of Ecologie, Systématique et Evolution laboratory (2012-2013)

Person in charge for a molecular lab room of the laboratory Ecologie, Systématique et Evolution laboratory (2012-2013)

Field work

October 2013: Mount Cameroun, Campo Ma'an Park (Cameroun) / Collecting of plants with Dr Hervé Sauquet and Dr Thomas Couvreur (Institut de Recherche pour le Développement, France)

March 2008 & 2009: Banyuls sur mer (France) / Collecting of biological material for parasitic checkup with Dr Gilles Petit (University Pierre et Maire Curie) et Dr Fabienne Misdguish (University Versailles Saint Quentin, France)

December 2007: Normandie (France) / Trapping of rabbits in order to develop a parasitic strain. Fabienne Audebert, S. Marchandeau and J. Letty (Office national de la chasse, France).

Computer skills

Experience of the Unix environment

Programming experience in Python and R

Website design experience

Solid understanding and experience of digital imaging (incl. Adobe Photoshop and Illustrator)

Fluency in a variety of DNA extraction, PCR, sequencing, phylogenetic analysis, molecular dating, ancestral state reconstruction and statistical software (incl. Sequencher, BioEdit, PAUP*, MrBayes, RAxML, r8s, BEAST, R [MEDUSA, ape, geiger, corHMM], Mesquite, BayesTrait)

Languages

French (mother language), English (read, spoken, written), Spanish (read)