

Prof. Martine MAIBECHE-COISNE, 47 year-old
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Institute of Ecology and Environmental Sciences of Paris (iEES Paris)
Dpt of Sensory Ecology
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Education

Habilitation à Diriger les Recherches (2005, UPMC)
PhD, Life Sciences, Invertebrate Physiology (1997, UPMC).
PhD, Veterinary Medicine (National Veterinary School of Maisons-Alfort, 1993)

Training and experience

2013 - ... Deputy-director of iEES Paris
2011-12 Director of the UMR-A 1272 Insect Physiology, Signaling and Communication
2009-2011 Deputy-director of the UMR-A 1272
2005- 2011 Professor, UPMC Dpt of Zoology, co-leader of a team
1997 - 2005 Associate Professor, UPMC
1996-1997 Post-doc, EA 3501, UPMC
1994 – 1997 PhD, “Odorant-Binding in the noctuid moth *Mamestra brassicae*” (INRA Versailles).

Teaching

Licence and Master degrees: 192 hours/year of teaching.
Student training: 4 MSc, 6 masters, 4 theses

Publications (33 papers, 65 congresses, 3 book chapters)

Durand N., Carot-Sans G., Cheretemps T., Bozzolan F., Party V., Renou M., Debernard S., Rosell G. and Maïbèche-Coisne M. 2010. Characterization of an antennal carboxylesterase from the pest moth *Spodoptera littoralis* degrading a host plant odorant. *Plos One* 5, e15026.
Durand N., Carot-Sans G., Bozzolan F., Rosell G., Siauxat D., Debernard S., Cheretemps T. and Maïbèche-Coisne M. (2011) Degradation of pheromone and plant volatile components by a same odorant-degrading enzyme in the cotton leafworm, *Spodoptera littoralis*. *Plos One* 6, e29147.
Legeai F., Malpel S., Montagné N., Monsempe C., Cousserans F., Merlin C., François M.-C., Maïbèche-Coisne M., Gavory F., Poulain J. and Jacquin-Joly E. (2011) An Expressed Sequence Tag collection from the male antennae of the noctuid moth *Spodoptera littoralis*: a resource for olfactory and pheromone detection research. *BMC Genomics* 12, 86.
Cheretemps T., François A., Durand N., Rosell G., Dekker T., Lucas P., and Maïbèche-Coisne M. 2012. A carboxylesterase, Esterase-6, modulates sensory physiological and behavioural response dynamics to pheromone in *Drosophila*. *BMC Biology* 10, 56.
Cheretemps T., Montagné N., Bozzolan F., Maria A., Durand N. and Maïbèche-Coisne M. (2012) Characterization of maspardin, responsible for human Mast syndrome, in an insect species and analysis of its evolution in metazoans. *Naturwissenschaften*, 99, 537-543.
Pottier M.-A., Bozzolan F., Cheretemps T., Jacquin-Joly E., Lalouette L., Siauxat D., and Maïbèche-Coisne M. (2012) Cytochrome P450s and Cytochrome P450 Reductase in the olfactory organ of the cotton leafworm *Spodoptera littoralis*. *Insect Mol. Biol.* 21, 568-580. (Younis F., Cheretemps T., Pearce S.L., Pandey G., Bozzolan F., Coppin C.W., Russell R.J., Maïbèche-Coisne M., Oakshott J.G. 2014. Identification of candidate odorant degrading gene/enzyme systems in the antennal transcriptome of *Drosophila melanogaster*. *Insect Biochem. Mol. Biol.* 53:30-43.
Bozzolan F., Siauxat D., Maria A., Durand N., Pottier M.A., Cheretemps T., Maïbèche-Coisne M. 2014. Antennal uridine diphosphate (UDP)-glycosyltransferases in a pest insect: diversity and putative function in odorant and xenobiotics clearance. *Insect Mol. Biol.* 23(5):539-49.

Main Grants

2005 BQR project “molecular and cellular mechanisms of pheromone perception”, 25 k€, UPMC, PI
2005 France-Spain bilateral program Picasso “Moth antennal esterases”, 10 k€, participant
2010 -2012 Emergence project, “Impact of anthropic pollutants on insect olfaction”, 105 k€, UPMC, PI
2011-2012 Post-doctoral grant, Mairie de Paris “research in Paris”
2010- 2011 France-Australia bilateral program Fast “Evolution of carboxylesterases in two moth species”, 10.2 k€, PI
2013-2015 ANR Biodapt “Pherotox: pheromone perception in polluted environment”, 220 k€, Co-PI
2013-2015 ANR blanc “ChemSenz: chemosensory enzymes and sex pheromone communication in *Drosophila*”, 300 k€, PI