

## Marion VITTECOQ

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### Research focus

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I am interested in the dynamics of pathogens at the interface between wildlife, livestock and human populations. I obtained my PhD in 2012 following my work on the emerging infectious diseases in the Mediterranean wetlands in the context of global changes. I am currently developing a project aiming at understanding the role of wildlife in the dynamics of antimicrobial resistant bacteria. I also study the dynamics of fasciolosis in the Camargue and the fate of avian influenza viruses in wetland networks. I participate in several other projects from the study of bird ticks to the investigation of the role of cancers in natural ecosystems.

### Positions

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- **04/2014 to present:** Permanent position as a researcher in charge of the health ecology studies at the Tour du Valat research Institute.
- **11/2012-03/2014:** Research engineer, MIVEGEC (CNRS/IRD/UM), Montpellier France. Main research topics: evolutionary biology of cancer & antimicrobial resistances in wildlife

### Education

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- **2009-2012: PhD** funded by the AXA research fund at the Montpellier University, France: “Emerging infectious diseases in the Mediterranean wetlands in the context of global changes.”
- **2009: MSc in Biodiversity, Ecology and Evolution** at the Montpellier University, France. First thesis: “Is the parasite *Trypanosoma brucei gambiense* able to modify the attractivity of its vertebrate host for its vector?” Second thesis: “Communication signals in a plant-ant symbiosis”
- **2005-2007: BSc in Biology and Geology**, Aix-Marseille University, France.

### Participation in working groups

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- Member of the Health and Biodiversity Working Group in charge of the monitoring of the biodiversity actions of the french 3rd national health and environment plan (PNSE3).
- Member of the BIODIS international working group hosted by the CESAB which produces multidisciplinary research studies on the interaction between Biodiversity and pathogen dynamics.

### Publications

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<b>Source Google Scholar</b>
<b>Citations: 294</b>
<b>H-Index: 11</b>

<b>Scientific production</b>	<b>Total</b>
Peer reviewed papers	32
Books and book chapters	6

**Vittecoq M.**, Gauduin H., Oudart T., Bertrand O., Roche B., Guillemain M., Boutron O. 2017. Modeling the spread of avian influenza viruses in aquatic reservoirs: A novel hydrodynamic approach applied to the Rhône delta (southern France). *Science of the Total Environment* 595:787–800.

**Vittecoq M.**, Laurens C., Brazier L., Durand P., Elguero E., Arnal A., Thomas F., Aberkane S., Renaud N., Prugnolle F., Solassol J., Jean-Pierre H., Godreuil S., Renaud F. 2017. VIM-1 carbapenemase-producing *Escherichia coli* in gulls from southern France. *Ecology and Evolution*. doi: 10.1002/ece3.2707

**Vittecoq M.**, Godreuil S., Prugnolle F., Durand P., Brazier L., Renaud N., Arnal A., Aberkane S., Jean-Pierre H., Gauthier-Clerc M., Thomas F., Renaud F. 2016. Review: Antimicrobial resistance in wildlife. *Journal of Applied Ecology* 53: 519-529.

**Vittecoq M.**, Thomas F., Jourdain E., Moutou F., Renaud F. & Gauthier-Clerc M. 2014. Risks of emerging infectious diseases: evolving threats in a changing area, the Mediterranean basin. *Transboundary and Emerging Diseases*. 61: 17-27.

**Vittecoq M.**, Roche B., Daoust S.P., Ducasse H., Missé D., Abadie J., Labrut S., Renaud F., Gauthier-Clerc M. & Thomas F. 2013. Cancer: a missing link in ecosystem functioning? *Trends in Ecology and Evolution*. 28: 628-635.