

## Biography of David Lecchini

12 March 1976

Professor EPHE, CRIOBE USR 3278, Moorea, French Polynesia ([www.criobe.pf](http://www.criobe.pf))

Associate director of IRCP, Institute for Pacific Coral Reefs ([www.ircp.pf](http://www.ircp.pf))

### Professional Preparation

Jan 2011	Professor EPHE	Ecology of fish larvae
2004-2005	Postdoctoral fellow, Lab Ecology and Systematics, Univ. Ryukyus, Japan	
2003	Postdoctoral fellow, Smithsonian Institution, Washington, USA	
2000-2003	Phd. Student, Lab Tropical Ichthyoecology, USR3278 CNRS-EPHE	
1997-2000	Predoctoral fellow, Lab Tropical Ichthyoecology, Univ. Paris	
1994-1997	Undergraduate teaching assistant, Department of Science, Univ. Marseille	

### Publications (81 articles and 17 workshops)

**Lecchini D.**, Shima J., Banaigs B. & R. Galzin, 2005. Larval sensory abilities and mechanisms of habitat selection of a coral reef fish during settlement. *Oecologia*, 143 : 326-334.

**Lecchini D.**, Osenberg C.W.O., Shima J.S., St Mary C. & R. Galzin, 2007. Ontogenetic changes in habitat selection during settlement in a coral reef fish: ecological determinants and sensory mechanisms. *Coral Reefs*, 26 : 423-432.

**Lecchini D.**, Mills S.C., Brié C., Maurin R. & B. Banaigs, 2010. Ecological determinants and sensory mechanisms in habitat selection of crustacean larvae. *Behavioral Ecology*, 21 : 599-607.

Lo-Yat A., Simpson S.D., Meekan M., **Lecchini D.**, Martinez E. & R. Galzin, 2011. Extreme climatic events reduce ocean productivity and larval supply in a tropical reef ecosystem. *Global Change Biology*, 17 : 1695-1702.

**Lecchini D.**, Waqalevu V.P., Parmentier E., Radford C.A., Banaigs B., 2013. Fish larvae prefer coral above algal water cues: Implications of coral reef degradation. *Marine Ecology Progress Series*, 475 : 303-307.

**Lecchini D.**, Lecellier G., Lanyon R.G., Holles S., Poucet B., Duran E., 2014. Variation in brain organization of coral reef fish larvae according to life history traits. *Brain, Behavior and Evolution*, 83 : 17-31.

**Lecchini D.**, Miura T., Lecellier G., Banaigs B., Nakamura Y., 2014. Transmission distance of chemical cues from coral habitats: Implications for marine larval settlement in context of reef degradation. *Marine Biology*, vol. 161 : 1677-1686

Nedelec S., Radford A.N., Simpson S.D., Nedelec B., **Lecchini D.**, Mills S.C., 2014. Anthropogenic noise playback impairs embryonic development and increases mortality in a marine invertebrate. *Scientific Reports*, vol. 4 : 5891-5895.

Nedelec S., Simpson S.D., Holderied M., Radford A.N., Lecellier G., Radford C., **Lecchini D.**, 2015. Soundscapes and living communities in coral reefs: temporal and spatial variation. *Marine Ecology Progress Series*, vol. 524 : 125-135.

Parmentier E., Berten L., Rigo P., Aubrun F., Nedelec S., Simpson S.D., **Lecchini D.**, 2015. The influence of various reef sounds on coral reef fish behavior. *Journal of Fish Biology*, vol. 86 : 1507-1518.

Barth P., Berenshtein I., Besson M., Roux N., Parmentier E., Banaigs B., **Lecchini D.**, 2015. From the ocean to a reef habitat: how do the larvae of coral reef fishes find their way home? A state of art on the latest advances. *Life and Environment*, vol. 65: 91-100.

Bertucci F., Parmentier E., Berten L., Brooker R., **Lecchini D.**, 2015. Temporal and Spatial Comparisons of Underwater Sound Signatures of Different Reef Habitats in Moorea Island, French Polynesia. *Plos One*, 10(9): e0135733.

O'Connor J., **Lecchini D.**, Beck H., Cadiou G., Lecellier G., Booth D.J., Nakamura Y., 2016. Sediment pollution impacts sensory ability and performance of settling coral reef fish. *Oecologia*, vol. 180: 11-21.

Roux N., Duran E., Lanyon R.G., Frédéric B., Berthe C., Besson M., Dixon D.L., **Lecchini D.**, 2016. Brain lateralization involved in visual recognition of conspecifics in coral reef fish at recruitment. *Animal Behaviour*, vol. 117: 3-8.

Research gate: [https://www.researchgate.net/profile/David\\_Lecchini](https://www.researchgate.net/profile/David_Lecchini)

### Teaching and training course

**Student Advisors 35** students in Licence, Master and Phd.

Responsible of an **e-learning on coral reefs**: [www.ensad.pf](http://www.ensad.pf)

Responsible of EPHE **Master "coral reefs"**: <http://www.criobe.pf/enseignements>

Responsible of **IRCP grant** for Phd and post-doctorate (4 500 € per grant each year):

<http://www.ircp.pf/en/ircp-actions/ircp-grants/>

Responsible of IRCP **training course in the South Pacific islands**: <http://www.ircp.pf/en/ircp-actions/international-workshop/>