

(i) **Name:** Stefano Cannicci

(ii) **Academic qualifications:** PhD, Animal Biology and Behaviour, University of Florence  
MSc & BSc Biology, University of Florence

(iii) **Previous academic positions held:**

01/07/2015 31/08/2015 Associate Professor, University of Florence

01/05/2005 31/06/2015 Assistant Professor, University of Florence

01/01/1995 30/04/2005 Post-doctoral Fellow, University of Florence

(iv) **Present academic position:**

01/09/2015 to present Associate Professor, School of Biological Sciences  
& Swire Institute of Marine Sciences, University of  
Hong Kong

(v) **Previous relevant research work:**

My research focuses on mangrove macrobenthos ecology, population genetic of decapods and behavioural ecology of mangrove macrofauna. My studies on the biology, ecology and evolutionary adaptations of flora and fauna of Indo-Pacific mangrove forests, and on the evolution of morpho-functional, physiological and behavioural adaptations to the intertidal terrestrial habit in decapods have been funded by prestigious competitive grants.

(vi) **Publication records:**

A total of 100 published papers and 3 book chapters. H index = 33, > 4200 cites

**Five most representative publications in recent five years**

1. Fusi M., **Cannicci S.**, Daffonchio D., Mostert B., Pörtner H.-O., Giomi F., 2016. The trade-off between heat tolerance and metabolic cost drives the bimodal life strategy at the air-water interface. *Scientific Reports*, 6, 19158.
2. Fusi M., Beone G.M., Suciu N.A., Sacchi A., Trevisan M., Capri E., Daffonchio D., Din N., Dahdouh-Guebas F., **Cannicci S.**, 2016. Ecological status and sources of anthropogenic contaminants in mangroves of the Wouri River Estuary (Cameroon). *Mar. Pollut. Bull.* 109: 723-733.
3. Fusi M., Giomi F., Babbini S., Daffonchio D., McQuaid C., Porri F., **Cannicci S.**, 2015. Thermal specialization across large geographical scales predicts the resilience of mangrove crab populations to global warming. *Oikos*, 124 (6), pp. 784-795.
4. Giomi F., Fusi M., Barausse A., Mostert B., Pörtner H.-O., **Cannicci S.**, 2014. Improved heat tolerance in air drives the recurrent evolution of air-breathing. *Proceedings of the Royal Society B: Biological Sciences*, 281(1782), 20132927.
5. Lee S.Y., Primavera J.H., Dahdouh-Guebas F., McKee K., Bosire J.O., **Cannicci S.**, Diele K., Fromard F., Koedam N., Marchand C., Mendelssohn I., Mukherjee N., Record S., 2014. Ecological role and services of tropical mangrove ecosystems: A reassessment. *Global Ecol. Biogeogr.*, 23: 595-609.

**Five representative publications beyond the recent five-year period with the latest publication entered first**

1. Penha-Lopes G., Torres P., **Cannicci S.**, Narciso L., Paula J., 2011. Monitoring anthropogenic sewage pollution on mangrove creeks in southern Mozambique: a test of *Palaemon concinnus* Dana, 1852 (Palaemonidae) as a biological indicator. *Environ. Pollut.*, 159: 636-645.
2. **Cannicci S.**, Bartolini F., Dahdouh-Guebas F., Fratini S., Litulo C., Macia A., Mrabu E. J. Penha-Lopes G., Paula J., 2009. Effects of urban wastewater on crab and mollusc assemblages in equatorial and subtropical mangroves of East Africa, *Estuar. Coast. Shelf Sci.*, 84: 305-317.
3. Bartolini F., Penha-Lopes G., Limbu S., Paula J., **Cannicci S.**, 2009. Behavioural responses of the mangrove fiddler crabs (*Uca annulipes* and *U. inversa*) to urban sewage loadings: results of a mesocosm approach. *Mar. Pollut. Bull.*, 58: 1860-1867.
4. Fratini S., Zane L., Ragionieri L., Vannini M., **Cannicci S.**, 2008. Relationship between heavy metal (As, Cd, Cu, Pb) accumulation and genetic variability decrease in the intertidal crab *Pachygrapsus marmoratus* (Decapoda: Grapsidae). *Estuar. Coast. Shelf Sci.*, 79: 679-686.
5. Duke N. C., J.-O. Meynecke, S. Dittmann, Ellison A. M., Anger K., Berger U., **Cannicci S.**, Diele K., Ewel K. C., Field C. D., Koedam N., Lee S. Y., Marchand C., Nordhaus I., Dahdouh-Guebas F., 2007. A world without mangroves? *Science*, 317: 41-42.

**(vii) Research grants (as a PI)**

1. The sky's the limit: the irresistible ascent to land and trees by crabs. TUYF Charitable Trust. Amount: 2,066,800. Status: on going.
2. How small things can result in massive changes: the role of microbiomes in the conquest of land by animals. Faculty RAE Improvement Fund, HKU. Amount: 500,000. Status: on going.
3. Hong Kong mangroves: where are they now? – Environmental and Conservation Fund, Hong Kong, ECF Project 69/2016. Funding Period: 2017-2019. Amount: 2,394,740. Status: on going.
4. Coastal Research Network On Environmental Changes (CREC) - European Commission 7th FP, PEOPLE Marie Curie Actions, IRSES, Project no. 247514, 2010 – 2015.
5. Principal Investigator of the Project Artificial reefs along the Tuscany coasts: their role within the management of coastal biodiversity (BiBAT) -funded by Tuscany Regional Council, in the frame of European Commission funds POR FSE 2007-2013 Obiettivo 2, 2010 – 2014.
6. Principal Investigator of the Project Mangrove fauna and flora: pattern of reproductive biology and dispersal mechanisms - Ministry of Education, University and Scientific Research, Italy, contract no. RBAU01H5C3\_001, University of Florence, 2004 – 2007.

**(viii) Others:**

1. Awarded the Fellowship of the Royal Institute of Navigation, UK, for my “important contribution in the field of animal homing and orientation”, in 2010.
2. Selected Member of the International Union for Conservation of Nature (IUCN) Species Survival Commission (SSC) Mangrove Specialist Group (2013- ).