



# Dipartimento di Scienze e Tecnologie

Dottorato di Ricerca in Scienze e Tecnologie per l'Ambiente e la Salute

## Seminari ed incontri del DST

### **Dr. Enrique M. Rodríguez**

Department of Biodiversity and Experimental Biology  
University of Buenos Aires, IBBEA-CONICET (Argentina)

## **Endocrine disruption in crustaceans by pesticides, heavy metals and other pollutants**

**VENERDÌ 18 MAGGIO 2018 ORE 11:00**  
**Dipartimento di Scienze e Tecnologie**  
**Via Port'Arsa, 11, Benevento**

After a brief introduction about the different kinds of endocrine disrupting compounds (EDCs) that can be found in the aquatic environment, and after presenting some examples in fishes, the talk will be oriented to the endocrine disruptions in crustaceans. To this purpose, a brief overview of crustacean endocrinology will be first presented, to further deep in some relevant results we have obtained in the last years. Concerning pesticides, several effects on the ovarian growth of crabs caused by two widely used herbicides, glyphosate and atrazine, will be commented, emphasizing the current evidences we found about the possible endocrine imbalances caused by both pollutants; in addition, some other evidences about endocrine disruption caused by atrazine on two crayfish species will be presented, concerning both ovarian maturation and sexual differentiation. The presentation will also include the effects of some heavy metals, particularly cadmium and copper, as endocrine disruptors of gonadal growth, glycemia and molting of crustaceans. With respect to the effects of heavy metals on molting, an integrated research made in both juveniles and adults of crabs will be presented.

Informazioni: [paolucci@unisannio.it](mailto:paolucci@unisannio.it)  
DST - Via Port'Arsa, 11 - 82100 Benevento