



Curriculum Vitae of Borin Sara

Photo



Education

Master degree in "Food Science and Technology", Milan University PhD in "Pesticides Chemistry, Biochemistry and Ecology", Milan University

Professional experiences

Sara Borin was graduated in Food Science and Technology on 1996 and achieved on 2001 at the Milan University the PhD title in "Pesticide Chemistry, Biochemistry and Ecology".

After a 18 months research contract with the National Interuniversity Consortium for Marine Sciences (CoNISMa), on 2002 she was employed by the Milan University as full time researcher in Agricultural Microbiology at the Department of Food Science and Microbiology (DiSTAM).

In 2007, awarded with a Fulbright grant, spent 6 months at the Institute for Marine and Coastal Sciences of the Rutgers University (New Brunswick, NJ USA).

Since October 2008 is permanently employed as Associate Professor in Agriculture Microbiology at DiSTAM.

Sara Borin completed her scientific training in several european reference laboratories in different areas of environmental microbiology, and during the last 9 years participated to national and international research expeditions on the Mediterranean Sea, the Pacific ocean, the high arctic, the Tunisian Sahara.

Research fields



Microbial ecology of extreme environments. Isolation and characterisation of microorganisms and microbial communities with biotechnologically relevant potential for bioremediation, bioenergies, agriculture



Most significant publications

Van der Wielen P.W.J.J., Bolhuis H., Borin S., Daffonchio D., Corselli C., Giuliano L., de Lange G.J., Varnavas S.P., Thompson J., Tamburini C., Marty D., McGenity T.J., Timmis K., BioDeep Scientific Party (2005) The enigma of prokaryotic life in deep hypersaline anoxic basins. *Science*, 307, 121-123.

Daffonchio D., Borin S., Brusa T., Brusetti L., van der Wielen P., Bolhuis H., Yakimov M., D'Auria G., Giuliano L., Marty D., Tamburini C., McGenity T., Hallsworth J., Sass A., Timmis K., Tselepidis A., de Lange G., Hübner H., Thomson J., Varnavas S., Gasparoni F., Gerber H., Elisa Malinverno, Corselli C. & Biodeep Scientific Party (2006). Stratified prokaryote network in the oxic-anoxic transition of a deep sea halocline. *Nature* 440, 203-207

Favia G, Ricci I, Damiani C, Raddadi N, Crotti E, Marzorati M, Rizzi A, Urso R, Brusetti L, Borin S., Mora D, Scuppa P, Pasqualini L, Clementi E, Genchi M, Corona S, Negri I, Grandi G, Alma A, Kramer L, Esposito F, Bandi C, Sacchi L, Daffonchio D. (2007). Bacteria of the genus *Asaia* stably associate with *Anopheles stephensi*, an Asian malarial mosquito vector. *Proceedings Of The National Academy Of Sciences Of The United States Of America*. 104, 9047-9051.

Borin S., L. Brusetti, F. Mapelli, G. D'Auria, T. Brusa, M. Marzorati, A. Rizzi, M. Yakimov, D. Marty, G.J. De Lange, P. Van der Wielen, H. Bolhuis, T.J. McGenity, P.N. Polymenakou, E. Malinverno, L. Giuliano, C. Corselli, D. Daffonchio (2009) Sulfur cycling and methanogenesis primarily drive microbial colonization of the highly sulfidic Urania deep hypersaline basin. *Proceedings Of The National Academy Of Sciences Of The United States Of America*, 106:9151-9156.

Borin S, Ventura S, Tambone F, Mapelli F, Schubotz F, Brusetti L, Scaglia B, D'Acqui LP, Solheim B, Turicchia S, Marasco R, Hinrichs K-U, Baldi F, Adani F, Daffonchio D (2009) Rock weathering creates oases of life in a High Arctic desert. *Environmental Microbiology*, Early Online publication

Web page

<http://www.distam.unimi.it/~borins/index.htm>