



Carlo Rossetti

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Biography

Born on 17 October 1958

1982 degree in Biological Sciences - Università degli Studi di Milano.

1986-1987 collaboration with the Department of Physiology and Cell Biology at the Emory University of Atlanta (USA).

1990 visiting professor at Animal Physiology, AFRC of Cambridge (UK).

1991-1996 head of the research of a Biotech Company (Biosensori S.p.A., IRI group).

1991-1992 visiting professor at Biotechnology Center of Cranfield (UK).

2001 supervisor professor for the PhD courses at University of New South Wales of Sidney (Australia).

2001-2003 member of the European team of EC-network "Cyanobacteria Toxins Water Quality and Health".

Research interests

Drug discovery using microorganisms living in extreme environments.

Biological effects of the emerging pollutants like pharmaceutical residues in the environment.

Teaching experience and appointments

Applied Biology and Cell Biology.

Intracellular signaling

Biosensors

Representative publications

1. F. Pomati, C. Rossetti, D. Calamari and B. A. Neilan. 2003. Effects of Saxitoxin and Veratridine on Bacterial Na⁺/K⁺ Fluxes: a Prokaryotic-based STX Bioassay. Applied and Environmental Microbiology 69:7371-7376.

2. F. Pomati, C. Rossetti, G. Manarolla, B. P. Burns and B. A. Neilan. 2004.

Combined variations Intracellular Na⁺ Levels and Saxitoxin Production

in *Cylindrospermopsis raciborskii* T3. *Microbiology*, 150:455-61.

3. F. Pomati, B. A. Neilan, G. Manarolla, T. Suzuki, C. Rossetti. 2003. Enhancement of intracellular saxitoxin accumulation by lidocaine hydrochloride in the cyanobacterium *Cylindrospermopsis raciborskii* T3 (Nostocales). *Journal of Phycology* 39:535-542

4. Sacchi S., Lorenzi S., Molla G., Pilone S. M., Rossetti C., Pollegioni L.: Engineering the substrate specificity of D-amino acid oxidase. *Journal of Biological Chemistry* 277: 27510-27516, 2002

5. Molteni M., Kohn LD., Rossetti C., Scrofani S., Bonara P., Scorza R.: Co-expression of CD8 receptor in human CD4+ T-cell clone influences proliferation, cytosolic Ca²⁺ release and cytokine production. *Immunology letters* 83:110-117, 2002

6. Prati M., Molteni M., Pomati F., Rossetti C., Bernardini G. Biological effect of the *Planktothrix* sp. FP1 cyanobacterial extract. *Toxicon* 40: 267-272, 2002

7. Rossetti C., Pomati F., Calamari D. Microorganisms Activity and Energy Fluxes in Lake Varese (Italy): A Field Method. *Water Research* 35: 1318-1324, 2001.

8. Pomati F., Sacchi S., Rossetti C., Giovannardi S., Onodera H., Oshima Y., Neilan B.A. The Freshwater Cyanobacterium *Leptolymba* sp. FP1: PSP Toxins detection and genetic identification. *J. Phycol.* 36: 553-562, 2000.

9. Giovannardi S., Pollegioni L., Pomati F., Rossetti C., Sacchi S., Sessa L., Calamari D. Toxic cyanobacterial blooms in lake Varese (Italy): a multidisciplinary approach. *J. Env. Tox. Water Quality* 14: 127-134, 1999.

10. Rossetti C., Gilli I., Terruzzi A., Martino P.A. A new sensor for the rapid determination of the total bacterial charge in fluid samples. *Life Chemistry Reports* 11: 373-389, 1994.

11. Rossetti C., Gilli I., Terruzzi A., Martino P.A. Determination of the total bacterial count in waste water treatment plants with a biosensor. *Life Chemistry Reports* 10: 209-215, 1994.

12. James P.S., Rossetti C., Smith M.W., Cremaschi D. Confocal microscopical analysis of epithelial cell heterogeneity in mouse Peyer's patches. *Histochemical Journal*. 24: 243-250, 1992.

13. Cremaschi D., Rossetti C., Draghetti M.T., Manzoni C., Aliverti V. Active transport of polypeptides in rabbit nasal mucosa: Possible role in the sampling of potential antigens. *Pflugers Archiv - European Journal of Physiology* 419: 425-432, 1991.

14. Cremaschi D., Rossetti C., Draghetti M.T., Manzoni C., Porta C., Aliverti V. Transepithelial electrophysiological parameters in rabbit respiratory nasal mucosa isolated in vitro. *Comparative Biochemistry & Physiology* 99: 361-364, 1991.

15. Meyer G., Botta G., Rossetti C., Cremaschi D. The nature of the neutral Na⁺-Cl⁻ coupled entry at the apical membrane of rabbit gallbladder epithelium: III. Analysis of transports on membrane vesicles. *Journal of Membrane Biology* 118: 107-120, 1990.
16. Comolli R., Rossetti C., Cremaschi D. Measurement with microelectrodes of intracellular Na, K, H and Cl activities and of membrane potential in normal rat liver slices and during the induced rat hepatocarcinogenesis *Cancer Biochem. Biophys.* 11: 13-22, 1990.
17. Brown D., Cremaschi D., James P.S., Rossetti C., Smith M.W. Brush-border membrane alkaline phosphatase activity in mouse Peyer's patch follicle-associated enterocytes. *Journal of Physiology* 427: 81-88, 1990.
18. Cremaschi D., James P.S., Rossetti C., Smith M.W. Chloride conductance and intracellular chloride accumulation in mouse Peyer's patch enterocytes. *Journal of Physiology* 427 :71-80, 1990.
19. Meyer G., Botta G., Rossetti C., Cremaschi D. Enkephalin regulation of L-valine transport in rabbit ileum. *Archives Internationales de Physiologie et de Biochimie* 97 :65-69, 1989.
20. Cremaschi D., James P.S., Rossetti C., Smith M.W. Enterocyte-lymphocyte interactions in the follicle-associated epithelium of the mouse Peyer's patch. *Journal of Physiology* 408: 605-616, 1989.
21. Cremaschi D., Meyer G., Botta G., Rossetti C. Uncoupling of Na⁺H⁺ from Cl⁻HCO₃⁻ exchange under some steady state conditions in rabbit gallbladder. *Pflugers Archiv - European Journal of Physiology* 413: 102-104, 1988.
22. Cremaschi D., Meyer G., Rossetti C. The nature of the neutral Na⁺-Cl⁻-coupled entry at the apical membrane of rabbit gallbladder epithelium: I. Na⁺/H⁺, Cl⁻/HCO₃⁻ double exchange and Na⁺-Cl⁻ symport. *Journal of Membrane Biology* 95: 209-218, 1987.
23. Cremaschi D., Meyer G., Botta' G., Rossetti C. The nature of the neutral Na⁺-Cl⁻-coupled entry at the apical membrane of rabbit gallbladder epithelium II. *Journal of Membrane Biology* 95: 219-228, 1987.
24. Botta G., Meyer G., Rossetti C., Cremaschi D. Isolation of apical plasma membrane in rabbit gallbladder epithelium by Percoll density gradient centrifugation. *Biochimica et Biophysica Acta* 897: 315-323, 1987.
25. Cremaschi D., James P.S., Meyer G., Rossetti C., Smith M. Intracellular potassium as possible inducer of aminoacid transport across hamster jejunal enterocytes *Journal of Physiology* 375: 107-119, 1986.
26. Meyer G., Rossetti C., Botta G., Cremaschi D. Construction of K⁺-

and Na⁺-sensitive theta-microelectrodes with fine tips: an easy method with high yield. *Pflugers Archiv - European Journal of Physiology* 404: 378-381, 1985.

27. Cremaschi D., James P.S., Meyer G., Rossetti C., Smith M. Developmental changes in intra-enterocyte cation activities in hamster terminal ileum. *Journal of Physiology* 354: 363-373, 1984.

28. Cremaschi D., Meyer G., Rossetti C. Bicarbonate effects, electromotive forces and potassium effluxes in rabbit and guinea-pig gall-bladder. *Journal of Physiology* 335: 51-64, 1983.