

## Prof. Andrea Battistoni

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(room 372)



### Curriculum Vitae

#### Education:

Biology degree (1986) 110/110 cum laude. University of Rome La Sapienza  
PhD in Cellular and Molecular Biology (1991). University of Rome Tor Vergata

#### Positions:

Since 1993 Andrea Battistoni is a stable member of the Department of Biology of the University of Rome Tor Vergata. Since February 2013 he is a full professor of Biochemistry

#### Main research interests during the last years:

Since several years my research interests are mainly focused on the role of antioxidant metalloenzymes and transition metal ion in the host-pathogen interaction. In this context, my laboratory has contributed to establish that bacterial pathogens compete with their host for zinc binding and that the high affinity zinc transporter ZnuABC is key for bacterial ability to colonize the host successfully. In parallel, I have started researches on the role of metals and antioxidants in the infections typical of Cystic Fibrosis, with the support of the Italian Foundation for Cystic Fibrosis Research. Main topics are:

- 1) investigation of the structural properties, of the mechanism of action and of the biological function of superoxide dismutases, with special interest for the structural properties and role in pathogenesis of the bacterial Cu,Zn superoxide dismutase;
- 2) Analysis of the role of transition metals and metalloproteins in bacterial virulence, with special focus on the role of the ZnuABC transporter in the pathogenicity of Gram-negative bacteria.
- 3) Metals and antioxidants in Cystic Fibrosis pathogenesis.
- 4) Novel antibacterial strategies based on the interference with metal homeostasis

**Publications:** Andrea Battistoni is co-author of more than 100 papers in international Journals indexed by PubMed (H index 28).

**Grants:** His research has received support from CNR, MURST, Ministry of Health, Fondazione Roma and Fondazione Ricerca Fibrosi Cistica.

**Other:** He is a member of the Editorial board of the Open Journal of Microbiology and of the World Journal of Biological Chemistry. Member of the following Scientific Societies: American Society for Microbiology (ASM); Italian Society for Biochemistry (SIB); Italian Society for the study of Cystic Fibrosis (SIFC); International Biometals Society (IBS).

#### Link to Pubmed publications:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/1PQe7ezc6tG5b/bibliography/48264692/public/?sort=date&direction=descending>