

MAURIZIO BRUNORI

SELECTED PAPERS (OUT OF MORE THAN 700 PUBLICATIONS):

- E. Antonini and M. Brunori. (1971) Hemoglobin and Myoglobin in Their Reactions with ligands, North Holland, Amsterdam-London.
- M. Brunori. (1975) Molecular adaptation to physiological requirements: the hemoglobin system of trout, *Curr. Top. Cell. Regulation* 9: 1-39.
- M. F. Perutz and M. Brunori. (1982) Stereochemistry of cooperative effects in fish and amphibian haemoglobins. *Nature* 299: 421-426.
- G. De Sanctis, G. Falcioni, B. Giardina, F. Ascoli and M. Brunori. (1986) Mini-myoglobin: preparation and reaction with oxygen and carbon monoxide. *J. Mol. Biol.* 188: 73-76.
- M. Brunori, A. Giuffre, K. Nienhaus, G.U. Nienhaus, F.M. Scandurra and B. Vallone. (2005) Neuroglobin, nitric oxide, and oxygen: functional pathways and conformational changes. *Proc. Natl. Acad. Sci. USA* 102: 8483-8488.
- E. Antonini, M. Brunori, A. Colosimo, C. Greenwood and M.T. Wilson, (1977) Oxygen "pulsed" cytochrome c oxidase: functional properties and catalytic relevance. *Proc. Natl. Acad. Sci. USA*, 74: 3128-3132.
- G. Antonini, F. Malatesta, P. Sarti and M. Brunori. (1993) Proton pumping by cytochrome oxidase as studied by time-resolved stopped-flow spectrophotometry. *Proc. Natl. Acad. Sci. USA*, 90: 5949-5953.
- M. Brunori (2001) Nitric oxide, cytochrome-c-oxidase and myoglobin. *Trends Biochem. Sci.*, 26: 21-23.
- D. Bourgeois, B. Vallone, F. Schotte, A. Arcovito, A.E. Miele, G. Sciara, M.Wulff, P. Anfinrud and M. Brunori. (2003) Complex landscape of protein structural dynamics unveiled by nanosecond Laue crystallography. *Proc. Natl. Acad. Sci. USA*, 100: 8704-8709.
- D. Bourgeois, B. Vallone, A. Arcovito, G. Sciara, F. Schotte, P.A. Anfinrud and M. Brunori. (2006) Extended subnanosecond structural dynamics of myoglobin revealed by Laue crystallography. *Proc. Natl. Acad. Sci. USA* 103: 4924-4929.
- S. Gianni, Y. Ivarsson, A. De Simone, C. Travaglini-Allocatelli, M. Brunori and M. Vendruscolo. (2011) Structural characterization of a misfolded intermediate populated during the folding process of a PDZ domain. *Nature Struc. Mol. Biol.* 17: 1431-1437.
- R. Giri, A. Morrone, C. Travaglini, P. Jemth, M. Brunori and S. Gianni. (2012) Folding pathways of proteins with increasing degrees of sequence identities but different structure and function. *Proc. Natl. Acad. Sci. USA* 109: 17772-17776.
- R. Giri, A. Morrone, A. Toto, M. Brunori and S. Gianni. (2013) Structure of the transition state for the binding of c-Myb and KIX highlights an unexpected order for a disordered system. *Proc. Natl. Acad. Sci. USA* 110: 14942-14947.
- D. Bonetti, C. Camilloni, L. Visconti, S. Longhi, M. Brunori, M. Vendruscolo and S. Gianni. (2016) Identification and structural characterization of an intermediate in the folding of the Measles Virus X Domain. *J. Biol. Chem.* 291: 10886- 10892.
- M. Brunori and S. Gianni. (2016) Molecular Medicine, to be or not to be. *Biophys. Chem.* 241: 33-46.
- S. Gianni, M.E. McCully, Malagrino, D. Bonetti, A. De Simone, M. Brunori and V. Daggett. (2018) A carboxylate to amide substitution that switches protein folds. *Angew. Chem.* 57: 12795-12798.