



Bruno Manta

Institut Pasteur Montevideo
/ Universidad de la Republica

Biochemistry
Genetics
Microbiology
Biophysics
Enzymes

GET MY OWN PROFILE

	All	Since 2018
Citations	1656	907
h-index	16	16
i10-index	20	19

3 articles	15 articles
not available	available

Based on funding mandates

TITLE	CITED BY	YEAR
Factors affecting protein thiol reactivity and specificity in peroxide reduction G Ferrer-Sueta, B Manta, H Botti, R Radi, M Trujillo, A Denicola Chemical research in toxicology 24 (4), 434-450	299	2011
The peroxidase and peroxynitrite reductase activity of human erythrocyte peroxiredoxin 2 B Manta, M Hugo, C Ortiz, G Ferrer-Sueta, M Trujillo, A Denicola Archives of biochemistry and biophysics 484 (2), 146-154	217	2009
Pre-steady state kinetic characterization of human peroxiredoxin 5: taking advantage of Trp84 fluorescence increase upon oxidation M Trujillo, A Clippe, B Manta, G Ferrer-Sueta, A Smeets, JP Declercq, ... Archives of biochemistry and biophysics 467 (1), 95-106	173	2007
SIRT6 is responsible for more efficient DNA double-strand break repair in long-lived species X Tian, D Firsanov, Z Zhang, Y Cheng, L Luo, G Tomblin, R Tan, ... Cell 177 (3), 622-638. e22	169	2019
Thiol and Sulfenic Acid Oxidation of AhpE, the One-Cysteine Peroxiredoxin from <i>Mycobacterium tuberculosis</i>: Kinetics, Acidity Constants, and Conformational ... M Hugo, L Turell, B Manta, H Botti, G Monteiro, LES Netto, B Alvarez, ... Biochemistry 48 (40), 9416-9426	135	2009
Trypanothione: a unique bis-glutathionyl derivative in trypanosomatids B Manta, M Comini, A Medeiros, M Hugo, M Trujillo, R Radi Biochimica et Biophysica Acta (BBA)-General Subjects 1830 (5), 3199-3216	129	2013
Deconstructing the catalytic efficiency of peroxiredoxin-5 peroxidatic cysteine S Portillo-Ledesma, F Sardi, B Manta, MV Tourn, A Clippe, B Knoops, ... Biochemistry 53 (38), 6113-6125	72	2014
Regulated methionine oxidation by monooxygenases B Manta, VN Gladyshev Free Radical Biology and Medicine 109, 141-155	67	2017
Determination of acidity and nucleophilicity in thiols by reaction with monobromobimane and fluorescence detection F Sardi, B Manta, S Portillo-Ledesma, B Knoops, MA Comini, ... Analytical Biochemistry 435 (1), 74-82	53	2013

TITLE	CITED BY	YEAR
<p>Nitration transforms a sensitive peroxiredoxin 2 into a more active and robust peroxidase</p> <p>LM Randall, B Manta, M Hugo, M Gil, C Batthyány, M Trujillo, LB Poole, ... Journal of Biological Chemistry 289 (22), 15536-15543</p>	51	2014
<p>Iron–sulfur cluster binding by mitochondrial monothiol glutaredoxin-1 of <i>Trypanosoma brucei</i>: molecular basis of iron–sulfur cluster coordination and relevance for parasite ...</p> <p>B Manta, C Pavan, M Sturlese, A Medeiros, M Crispo, C Berndt, ... Antioxidants & redox signaling 19 (7), 665-682</p>	42	2013
<p><i>Lokiarchaeota</i> Marks the Transition between the Archaeal and Eukaryotic Selenocysteine Encoding Systems</p> <p>M Mariotti, AV Lobanov, B Manta, D Santesmasses, A Bofill, R Guigó, ... Molecular biology and evolution 33 (9), 2441-2453</p>	39	2016
<p>Disulfide Bond Formation in the Periplasm of <i>Escherichia coli</i></p> <p>B Manta, D Boyd, M Berkmen EcoSal Plus 8 (2)</p>	29	2019
<p>Polyamine-based thiols in trypanosomatids: evolution, protein structural adaptations, and biological functions</p> <p>B Manta, M Bonilla, L Fiestas, M Sturlese, G Salinas, M Bellanda, ... Antioxidants & Redox Signaling 28 (6), 463-486</p>	29	2018
<p>Tools to evaluate the conformation of protein products</p> <p>B Manta, G Obal, A Ricciardi, O Pritsch, A Denicola Biotechnology Journal 6 (6), 731-741</p>	25	2011
<p>Structural changes upon peroxynitrite-mediated nitration of peroxiredoxin 2; nitrated Prx2 resembles its disulfide-oxidized form</p> <p>L Randall, B Manta, KJ Nelson, J Santos, LB Poole, A Denicola Archives of biochemistry and biophysics 590, 101-108</p>	19	2016
<p>MICAL1 constrains cardiac stress responses and protects against disease by oxidizing CaMKII</p> <p>K Konstantinidis, VJ Bezzerides, L Lai, HM Isbell, AC Wei, Y Wu, ... The Journal of clinical investigation 130 (9), 4663-4678</p>	16	2020
<p>A glutaredoxin in the mitochondrial intermembrane space has stage-specific functions in the thermo-tolerance and proliferation of African trypanosomes</p> <p>S Ebersoll, B Musunda, T Schmenger, N Dirdjaja, M Bonilla, B Manta, ... Redox biology 15, 532-547</p>	15	2018
<p>Structural variability of <i>E. coli</i> thioredoxin captured in the crystal structures of single-point mutants</p> <p>ME Noguera, DS Vazquez, G Ferrer-Sueta, WA Agudelo, E Howard, ... Scientific reports 7 (1), 1-12</p>	14	2017
<p>Kinetic studies reveal a key role of a redox-active glutaredoxin in the evolution of the thiol-redox metabolism of trypanosomatid parasites</p> <p>B Manta, MN Möller, M Bonilla, M Deambrosi, K Grunberg, M Bellanda, ... Journal of Biological Chemistry 294 (9), 3235-3248</p>	10	2019

