



Publications

No	Authors	Title	Publication	Year
2007				
1	Jung KM, Astarita G, Zhu C, Wallace M, Mackie K, Piomelli D.	A key role for diacylglycerol lipase- α in metabotropic glutamate receptor-dependent endocannabinoid mobilization	Mol Pharmacol 72, 612-621.	2007
2	Piomelli D, Astarita G, Rapaka R.	A neuroscientist's guide to lipid-omics	Nature Reviews Neuroscience 8: 743-754	2007
2008				
1	Fu J, Kim J, Oveisi F, Astarita G, Piomelli D.	Targeted enhancement of oleoylethanolamide production in proximal small intestine induces across-meal satiety in rats.	Am J Physiol Regul Integr Comp Physiol, 295, R45-50.	2008
2	Genovese T, Esposito E, Mazzon E, Di Paola R, Meli R, Bramanti P, Piomelli D, Calignano A, Cuzzocrea S.	Effects of palmitoylethanolamide on signaling pathways implicated in the development of spinal cord injury	J Pharmacol Exp Ther 326, 12-23.	2008
3	Justinova Z, Mangieri RA, Bortolato M, Chefer SI, Mukhin AG, Clapper JR, King AR, Redhi GH, Yasar S, Piomelli D, Goldberg SR,	Fatty acid amide hydrolase inhibition heightens anandamide signaling without producing reinforcing effects in primates.	Biol Psychiatry, 64, 930-937.	2008
4	Mor M, Lodola A, Rivara S, Vacondio F, Duranti A, Tontini A, Sanchini S, G. Piersanti, Clapper J.R, King AR, Tarzia G. Piomelli D.	Synthesis and Quantitative Structure-Activity Relationship of Fatty Acid Amide Hydrolase Inhibitors: Modulation at the N-Portion of Biphenyl-3-yl Alkylcarbamates	J Med Chem 51, 3487-3498.	2008
5	Piomelli D.	The element of surprise	Nat Med 14, 720-721.	2008
6	Schwartz GJ, Fu J, Astarita G, Li X, Gaetani S, Campolongo P, Cuomo V, Piomelli D.	The lipid messenger OEA links dietary fat intake to satiety.	Cell Metab 8, 281-288.	2008
7	Colizzi F, Recanatini M, Cavalli A	Mechanical Features of Plasmodium falciparum Acyl Carrier Protein in the Delivery of Substates	J. Chem. Inf. Model., 48 (12), 2289-2293	2008
2009				
1	Bolognesi M.L., Cavalli A. and Melchiorre C.	Memoquin: a multi-target-directed ligand as an innovative therapeutic opportunity for Alzheimer's disease.	Neurotherapeutics 6(1), 152-162	2009
2	Berteotti A., Cavalli A., Branduardi D., Gervasio F.L., Recanatini M., and Parrinello M.	Protein Conformational Transitions: The Closure Mechanism of a Kinase Explored by Atomistic Simulations	J. Am. Chem. Soc., 131 (1), 244-250	2009

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3	Masetti M., Cavalli A., Recanatini M. and Gervasio F.L.	Exploring Complex Protein-Ligand Recognition Mechanisms with Coarse Metadynamics	J. Phys. Chem. B., 113 (14), 4807-4816	2009
4	Rizzo S., Cavalli A., Ceccarini L., Bartolini M., Belluti F., Bisi A., Andrisano V., Recanatini M. and Rampa A.	Structure-Activity Relationships and Binding Mode in the Human Acetylcholinesterase Active Site of Pseudo-Irreversible Inhibitors Related to Xanthostigmine.	ChemMedChem 4 (4), 670-679	2009
5	Cucinotta C.S., Kosa M., Melchiorre P., Cavalli A. and Gervasio F.L.	Bifunctional Catalysis by Natural Cinchona Alkaloids: a Mechanism Explained	Chem. Eur. J. 15: 7913-7921	2009
6	Sgrigani J., Bonaccini C., Grazioso G., Chioccioli M., Cavalli A. and Gratteri P.	Insights into docking and scoring neuronal $\alpha 4\beta 2$ nicotinic receptor agonists using Molecular Dynamics simulations and QM/MM calculations	J. Comput. Chem. 30: 2443-2454	2009
7	Atkin A.J., Williams S., Sawle P., Motterlini R., Lynam J.M. and Fairlamb I.J.S.	$\mu 2$ -Alkyne dicobalt(0)hexacarbonyl complexes as carbon monoxide-releasing molecules (CO-RMs): probing the release mechanism.	Dalton Trans. 19: 3653-3656	2009
8	Pizarro M.D., Rodriguez J.V., Mamprin M.E., Fuller B.J., Mann B.E., Motterlini R. and Guibert E.E.	Protective effects of a carbon monoxide-releasing molecule (CORM-3) during hepatic cold preservation	Cryobiology (In press)	2009
9	Althaus M., Fronius M., Buchäcker Y., Vadász I., Clauss W.G., Seeger W., Motterlini R. and Morty RE.	Carbon monoxide rapidly impairs alveolar fluid clearance by inhibiting epithelial sodium channels	Am. J. Resp. Cell Mol. Biol. (In press)	2009
10	Lancel S., Hassoun S.M., Favory R., Decoster B., Motterlini R. and Neviere R.	Carbon monoxide rescues mice from lethal sepsis by supporting mitochondrial energetic metabolism and activating mitochondrial biogenesis	J. Pharmacol. Exp. Therap. 329 (2): 641-648	2009
11	De Backer O., Elinck E., Blanckaert B., Leybaert L., Motterlini R. and Lefebvre R.A.	Water-soluble CO-releasing molecules reduce the development of postoperative ileus via modulation of MAPK/HO-1 signalling and reduction of oxidative stress	Gut 58: 347-356	2009
12	Clark J.E., Kottam A., Motterlini R. and Marber M.S.	Measuring left ventricular function in the normal, infarcted and CORM-3-preconditioned mouse heart using complex admittance-derived pressure volume loops.	J. Pharmacol. Toxicol. Methods 59 (2): 94-99	2009
13	Davidge K.S., Sanguinetti G., Yee C.H., Cox A.G., McLeod C.W., Monk C.E., Mann B.E., Motterlini R. and Poole R.K.	Carbon monoxide-releasing antibacterial molecules target respiration and global transcription regulators	J. Biol. Chem. 284: 4516-4524	2009
14	Di Fenza A., Rocchia W. and Tozzini V.	Complexes of HIV-1 integrase with HAT proteins: Multiscale models, dynamics, and hypotheses on allosteric sites of inhibition	Proteins 76: 946-958	2009

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15	Desmard M., Davidge K., Bouvet O., Morin D., Roux D., Foresti R., Ricard J.D., Denamur E., Poole R.K., Montravers P., Motterlini R. and Boczkowski J.	A carbon monoxide-releasing molecule (CORM-3) exerts bactericidal activity against <i>Pseudomonas aeruginosa</i> and improves survival in an animal model of bacteraemia	FASEB Journal 23 (4): 1023-1031	2009
16	Clapper J.R., Mangieri R.A. and Piomelli D.	The endocannabinoid system as a target for the treatment of cannabis dependence	Neuropharmacology 56: 235-243	2009
17	Campolongo P., Roozendaal B., Trezza V., Cuomo V., Astarita G., Fu J., McGaugh J.L. and Piomelli D.	Fat-induced satiety factor oleoylethanolamide enhances memory consolidation	Proc. Natl. Acad. Sci. USA 106: 8027-8031	2009
18	Cavalli A., Lizzi F., Bongarzone S., Brun R., Krauth-Siegel R.L., and Bolognesi M.L.	Privileged structure-guided synthesis of quinazoline derivatives as inhibitors of trypanothione reductase	Bioorg. Med. Chem. Lett. 19: 3031-3035	2009
19	Bonella S., Rocchia W., Amat P., Nifosi R. and Tozzini V.	SDPhound, a mutual information-based method to investigate specificity-determining positions	Algorithms 2: 764-789	2009
20	Ho M-H., De Vivo M., Dal Peraro M., and Klein M.L.	Unraveling the Catalytic Pathway of Metalloenzyme	J. Chem. Theory Comput. 5, 1657-1666	2009
21	Kranjc A., Bongarzone S., Rossetti G., Biarnés X., Cavalli A., Bolognesi M.L., Roberti M., Legname G. and Carloni P.	Docking ligands on protein surfaces: The case study of prion protein	J. Chem. Theory Comput. 5: 2565-2573	2009
22	Vacondio F., Silva C., Lodola A., Fioni A., Rivara S., Duranti A., Tontini A., Sanchini S., Clapper J.R., Piomelli D., Mor M. and Tarzia G.	Structure-property relationships of a class of carbamate-based fatty acid amide hydrolase (FAAH) inhibitors: Chemical and biological stability	ChemMedChem 4: 1495-1504	2009
23	Clapper J.R., Vacondio F., King A.R., Duranti A., Tontini A., Silva C., Sanchini S., Tarzia G., Mor M. and Piomelli D.	A second generation of carbamate-based fatty acid amide hydrolase inhibitors with improved activity in vivo	ChemMedChem 4: 1505-1513	2009
24	King A.R., Lodola A., Carmi C., Fu J., Mor M. and Piomelli D.	A critical cysteine residue in monoacylglycerol lipase is targeted by a new class of isothiazolinone-based enzyme inhibitors	Br. J. Pharmacol. 157: 974-983	2009
25	Mangieri R.A., Hong K-I. A., Piomelli D. and Sinha R.	An endocannabinoid signal associated with desire for alcohol is suppressed in recently abstinent alcoholics	Psychopharmacology 205: 63-72	2009
26	LoVerme J., Duranti A., Tontini A., Spadoni G., Mor M., Rivara S., Stella N., Xu C., Tarzia G. and Piomelli D.	Synthesis and characterization of a peripherally restricted CB1 cannabinoid antagonist, URB447, that reduces feeding and body-weight gain in mice	Bioorg. Med. Chem. Lett. 19: 639-643	2009