

Biological Effects of Human Exposure to Environmental Cadmium

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Supplementary Material

Table S1. Percentage distribution of geometries for Cd²⁺ complexed with proteins according to RCSB PDB database

Geometry	N° entry	%
octahedron	60	12,7%
square pyramid with a vacancy (equatorial)	68	14,3%
square pyramid	31	6,5%
square plane	15	3,2%
square plane with a vacancy (regular)	30	6,3%
tetrahedron with vacancy	51	10,8%
tetrahedron	24	5,1%
trigonal plane with a vacancy	85	17,9%
trigonal bipyramid with a vacancy (axial)	21	4,4%
trigonal bipyramid with a vacancy (equatorial)	17	3,6%
trigonal bipyramid	4	0,8%
pentagonal bipyramid with a vacancy (equatorial)	33	7,0%
pentagonal bipyramid	16	3,4%
others	19	4,0%

Table S2. Percentage distribution of metal ions substituted by Cd²⁺ according to the RCSB PDB database

Metals	% of Cd substitution in Metal-protein	n° of Cd substitution in Metal-protein	% of Cd substitution in Metal-proteins
Zn	4,1%	1245	29,7%
Mg	2,1%	623	14,0%
Ca	2,2%	590	14,1%
Co	1,6%	417	10,0%
Mn	1,1%	368	8,8%
Fe	3,2%	309	7,4%
Na	1,1%	286	6,8%
Cu	1,6%	167	4,0%
Ni	0,9%	134	3,2%
K	0,5%	50	1,2%

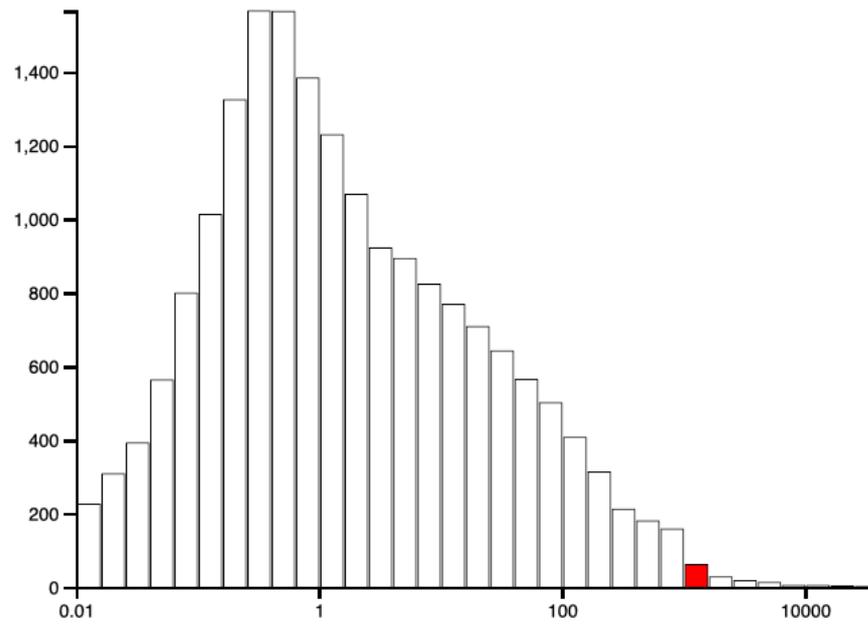


Figure S1. Protein abundance histogram of human proteins. In red the abundance of Heat Shock protein HSP 90-beta.