

Resource Summary Report

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WEBMAXC EXTENDED

RRID:SCR_018807

Type: Tool

Proper Citation

WEBMAXC EXTENDED (RRID:SCR_018807)

Resource Information

URL:

<https://somapp.ucdmc.ucdavis.edu/pharmacology/bers/maxchelator/webmaxc/webmaxcE.htm>

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Description: Web tool for computing metal ion concentrations in physiological solutions. Used for determining free metal concentration in presence of chelators or total metal given desired free concentration.

Synonyms: WEBMAXC Extended

Resource Type: analysis service resource, data access protocol, production service resource, service resource, software resource, web service

Keywords: Metal ion concentration, physiological solution, free metal concentration, chelator, free concentration, free metal concentration calculation

Availability: Free, Freely available

Resource Name: WEBMAXC EXTENDED

Resource ID: SCR_018807

Record Creation Time: 20220129T080342+0000

Record Last Update: 20260905T132842+0000

Ratings and Alerts

No rating or validation information has been found for WEBMAXC EXTENDED.

No alerts have been found for WEBMAXC EXTENDED.

Data and Source Information

Usage and Citation Metrics

We found 24 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Borrego J, et al. (2026) A Fluorescent Protein-Tagged Scorpion Toxin with Picomolar Affinity for the Kv1.3 K⁺ Channel. ACS omega, 11(9), 14681.

Weninger G, et al. (2025) Structural basis for simvastatin-induced skeletal muscle weakness associated with type 1 ryanodine receptor T4709M mutation. The Journal of clinical investigation, 135(24).

Agarwal S, et al. (2025) Ball-and-chain inactivation of a human large conductance calcium-activated potassium channel. Nature communications, 16(1), 1769.

Cassell SJ, et al. (2025) Mechanism of SK2 channel gating and its modulation by the bee toxin apamin and small molecules. eLife, 14.

Shakeel K, et al. (2025) Cvi16 and Cvi17: Potent and Selective Peptide Blockers of Kv1.2 Ion Channel Isolated from Mexican Scorpion Centruroides villegasi. Toxins, 17(6).

Cozzolino M, et al. (2024) Intracellular acidity impedes KCa3.1 activation by Riluzole and SKA-31. Frontiers in pharmacology, 15, 1380655.

Weninger G, et al. (2024) Structural insights into the regulation of RyR1 by S100A1. Proceedings of the National Academy of Sciences of the United States of America, 121(27), e2400497121.

Dubaissi E, et al. (2024) The Tmem16a chloride channel is required for mucin maturation after secretion from goblet-like cells in the Xenopus tropicalis tadpole skin. Scientific reports, 14(1), 25555.

Chen Z, et al. (2023) Cryo-EM structures of human SPCA1a reveal the mechanism of Ca²⁺/Mn²⁺ transport into the Golgi apparatus. Science advances, 9(9), eadd9742.

Sanchez GM, et al. (2023) The ??-cell primary cilium is an autonomous Ca²⁺ compartment for paracrine GABA signaling. The Journal of cell biology, 222(1).

Combe CL, et al. (2023) Cholinergic modulation shifts the response of CA1 pyramidal cells to depolarizing ramps via TRPM4 channels with potential implications for place field firing. eLife, 12.

Dridi H, et al. (2023) Heart failure-induced cognitive dysfunction is mediated by intracellular Ca²⁺ leak through ryanodine receptor type 2. Nature neuroscience, 26(8), 1365.

Paknejad N, et al. (2023) Structural titration reveals Ca²⁺-dependent conformational landscape of the IP3 receptor. Nature communications, 14(1), 6897.

Ramanadane K, et al. (2023) Structural and functional properties of a plant NRAMP-related aluminum transporter. *eLife*, 12.

Dickinson MS, et al. (2022) Molecular basis of multistep voltage activation in plant two-pore channel 1. *Proceedings of the National Academy of Sciences of the United States of America*, 119(9).

Delgado BD, et al. (2022) Mechanisms of ion selectivity and throughput in the mitochondrial calcium uniporter. *Science advances*, 8(50), eade1516.

Aresta Branco MSL, et al. (2022) Mechanosensitive Hydrolysis of ATP and ADP in Lamina Propria of the Murine Bladder by Membrane-Bound and Soluble Nucleotidases. *Frontiers in physiology*, 13, 918100.

Conner GE, et al. (2021) Regulation of dual oxidase hydrogen peroxide synthesis results in an epithelial respiratory burst. *Redox biology*, 41, 101931.

Straub MS, et al. (2021) Cryo-EM structures of the caspase-activated protein XKR9 involved in apoptotic lipid scrambling. *eLife*, 10.

Yamashita M, et al. (2021) Interrogating permeation and gating of Orai channels using chemical modification of cysteine residues. *Methods in enzymology*, 652, 213.