

# Resource Summary Report

Generated by SPARC SAWG on Jul 28, 2026

## 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:** service resource, web service, analysis service resource, software resource, production service resource, data access protocol

**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:** 20260728T043548+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 20 mentions in open access literature.

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

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

Shakeel K, et al. (2025) Cvill6 and Cvill7: Potent and Selective Peptide Blockers of Kv1.2 Ion Channel Isolated from Mexican Scorpion *Centruroides villegasi*. *Toxins*, 17(6).

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

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.

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

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.

Sanchez GM, et al. (2023) The ??-cell primary cilium is an autonomous Ca<sup>2+</sup> compartment for paracrine GABA signaling. *The Journal of cell biology*, 222(1).

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

Paknejad N, et al. (2023) Structural titration reveals Ca<sup>2+</sup>-dependent conformational landscape of the IP3 receptor. *Nature communications*, 14(1), 6897.

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.

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

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

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).

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.

Dayal A, et al. (2021) Pore mutation N617D in the skeletal muscle DHPR blocks  $\text{Ca}^{2+}$  influx due to atypical high-affinity  $\text{Ca}^{2+}$  binding. *eLife*, 10.

Lariccia V, et al. (2020) Cracking the code of sodium/calcium exchanger (NCX) gating: Old and new complexities surfacing from the deep web of secondary regulations. *Cell calcium*, 87, 102169.

Bai JP, et al. (2020) Calcium-induced calcium release in proximity to hair cell BK channels revealed by PKA activation. *Physiological reports*, 8(15), e14449.

Seifert C, et al. (2020) Modulation of Kv4.2/KChIP3 interaction by the ceroid lipofuscinosis neuronal 3 protein CLN3. *The Journal of biological chemistry*, 295(34), 12099.