

# Resource Summary Report

Generated by [NIF](#) on Aug 27, 2026

## Ion Simulator Interface

RRID:SCR\_008267

Type: Tool

### Proper Citation

Ion Simulator Interface (RRID:SCR\_008267)

### Resource Information

**URL:** [https://simtk.org/home/isim\\_interface](https://simtk.org/home/isim_interface)

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**Description:** A simple Java graphical user interface for running the program ISIM. ISIM is a package that simulates the thermodynamic ensemble of ions around a macromolecule using a grand canonical Monte Carlo scheme and simple hard sphere ion models. It is meant to provide an alternative mechanism to mean field approaches to allow the calculation of ion distributions around a highly charged molecule using a simple model that takes into account ion-ion correlations and steric interactions. The original source was created in the McCammon group at UCSD but is no longer available. The version of ISIM used is available in the ISIM project on simtk.org.

**Abbreviations:** ISIM

**Synonyms:** SimTK ISIM, SimTK Ion Simulator Interface

**Resource Type:** simulation software, software application, software resource

**Keywords:** grand canonical ensemble, monte carlo, Java, calculation, ion distribution

**Resource Name:** Ion Simulator Interface

**Resource ID:** SCR\_008267

**Alternate IDs:** nif-0000-23306

**Record Creation Time:** 20220129T080246+0000

**Record Last Update:** 20260821T193839+0000

### Ratings and Alerts

No rating or validation information has been found for Ion Simulator Interface.

No alerts have been found for Ion Simulator Interface.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.