

## **Serving the Medicinal Chemistry Community with Royal Society of Chemistry Cheminformatics Platforms**

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The Royal Society of Chemistry (RSC) is a major participant in providing access to chemistry related data via the web. As an internationally renowned society for the chemical sciences, a scientific publisher and the host of the ChemSpider database for the community, RSC continues to make dramatic strides in providing online access to data. ChemSpider provides access to over 30 million chemicals sourced from over 500 data suppliers and linked out to related information on the web. The platform is a crowdsourcing environment whereby members of the community can participate in validating and expanding the content of the database. With a set of application programming interfaces ChemSpider is used by various organizations and projects to serve up data for various purposes. These include structure identification for mass spectrometry instrument vendors, RSC databases such as the Marinlit natural products database and a European grant-based project from the Innovative Medicines Initiative fund. This presentation will provide an overview of various cheminformatics activities and projects that RSC is involved with to serve the medicinal chemistry community. This will include the Open PHACTS semantic web project, the PharmaSea project to identify new pharmaceutical leads from the ocean and the UK National Compound Collection to identify new lead compounds contained within PhD theses.