

Resource Summary Report

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Gnarus Systems

RRID:SCR_012681

Type: Tool

Proper Citation

Gnarus Systems (RRID:SCR_012681)

Resource Information

URL: <http://www.scienceexchange.com/facilities/gnarus-systems>

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Description: Gnarus Systems is pleased to offer cat-SAR; a peer-reviewed in silico toxicity prediction expert system. The cat-SAR system associates 2-dimensional chemical fragments with active or inactive compounds in a learning set. Unlike many other approaches, cat-SAR is transparent and model parameter selection is controlled by the user. As such, the approach is sharable and allows unrestricted user scrutiny, intervention and model optimization throughout the SAR modeling process. This rationale negates any a priori requirements that a given set of data must fit the attributes of a predefined and often proprietary modeling process. The cat-SAR system essentially learns about the biological activity of chemicals by analyzing learning sets of data. These are endpoint specific databases of toxicological or pharmacological chemical activity (e.g., carcinogens and developmental toxicants) that are assembled by us or others. Currently, we have validated and usable learning sets for a variety of health endpoints including cancer, anticancer, genotoxicity, developmental toxicity, and chemical allergy. Currently, cat-SAR models are available for: Rats, mice, and rodents carcinogenesis including gender-specific submodels Mammary Cancer in Rodents Tissue/organ specific carcinogenesis for 12 tumor types Salmonella mutagenicity (i.e. the Ames Assay) Developmental Toxicity Allergic Contact Dermatitis Respiratory Hypersensitivity Mouse Local Lymph Node Assay Ocular toxicity Estrogen mimics based on the E-SCREEN assay Anticancer activity to several different breast cancer cell lines

Abbreviations: Gnarus Systems

Resource Type: access service resource, commercial organization, core facility, service resource

Resource Name: Gnarus Systems

Resource ID: SCR_012681

Alternate IDs: SciEx_8830

Record Creation Time: 20220129T080311+0000

Record Last Update: 20260912T195751+0000

Ratings and Alerts

No rating or validation information has been found for Gnarus Systems.

No alerts have been found for Gnarus Systems.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.