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Innovative TechniquesOpen NewAvenessin Drgu Discoveryfor Brain Diseases

The Latest from SLAS Discovery Besearch

Oak Brook, IL – <u>Volume 29</u>, <u>Issue</u> of SLAS Discovenegatures two review articles, six original research articles covering phenotypic screening perspectives, medulloblastoma therapies and interventions for neurodegenetate SLAS2023 International Conference. Collectively, the group members' perspectives

highlight various challenges, progress and proposed solutions to pheio stype ening. Screening for molecular glue Challenges and opportunities

This article provides an overview of molecular glues, smaller molecules that stabilize protein interactions, particularly between a target and an E3 ligase. It discusses how induced proximity can enhance activity or inhibit natural effector binding, review/rrent methods for identifying molecular glues and suggests screening approaches for their discovery.

Original Research

<u>The openOCHEM consensus model is the **best**orming opensource predictive model in the First EUOS/SLAS joint compound solubility challenge</u>

The subject of this article is the EUOS/SLAS challenge, a competition aimed at developing accurate algorithms for predicting the aqueous solubility of small molecules using experimental data from 100,000 compounds he winning model underscores the effectivess of Natural Language Processing methods, particularly the Transformer CNN, and suggests that incorporating information about aleatoric uncertainty could further enhance understanding and utilization of the challenge data. The subject of this article is the EUOS/SLAS challenge, a competition aimed at developing accurate algorithms for predicting the aqueous solubility of small molecules using experimental data from 100,000 compou**Trates** winning model underscores the effectiveness of Natural Language Processing methods, particularly the

Transformer CNN, and suggests that incorporating information about aleatoric uncertainty could further enhance understanding and utilization of the challenge data.

<u>Development of a high-throughput screening platform to identify new therapeutic agents for</u> <u>Medulloblastoma Group</u> 3

Thisarticle discusses pediatric brain tumors, emphasizing the prevalence of medulloblastoma (MB), which accounts for a significant portion of pediatric cancer deaths. The authors introduce a highthroughput screeningHTSplatform specifically tailored to identify new therapies for MB G3, showcasing promising results from a pilot HTS campaign that identified active compounds with potential clinical significance.

Screening approaches for the identification of NM2ap1 proteirprotein interaction inhibitors targeting hot spot residues

Thisarticle explores the challenges of targeting prot**ein**otein interactionsin drug discovery and focuses on hot spot residues within the Kelke ECH-associated protein 1 (Keap1) substrate binding pockethe study identifies small molecule compoundselog(r)-1.7 (p)-0.6 (o)-4.1 (d-0.6