

Standigm[®]

AI for new drug R&D

SPICA

AI-Powered Novelty Assessment

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Elevating AI-Driven Novelty Evaluation with Standigm's SPICA

SPICA is the exclusive tool that swiftly computes novelty prospects for the vast array of new molecular structures born from AI synthesis. SPICA delivers rapid, precise evaluations, ensuring your novel compounds have a clear path toward patent protection.

Discover SPICA: Your Strategic Partner in the Quest for Novelty

SPICA Key Features

- 🌀 **Rapid Novelty Assessment**
Instantly receive a novelty score, transforming hours of analysis into mere seconds.
- 🌀 **Advanced Similarity Search**
Easily locate similar molecules in the embedding space, streamlining the validation process.
- 🌀 **Comprehensive Patent Insights**
Gain a succinct summary of related patents to navigate the intellectual property landscape effectively.

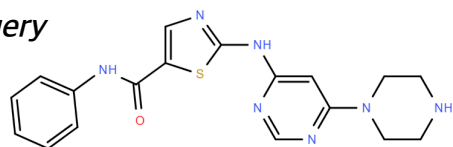
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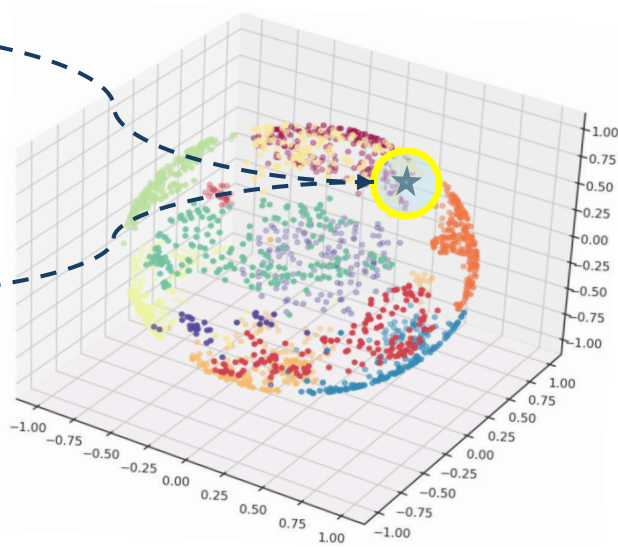
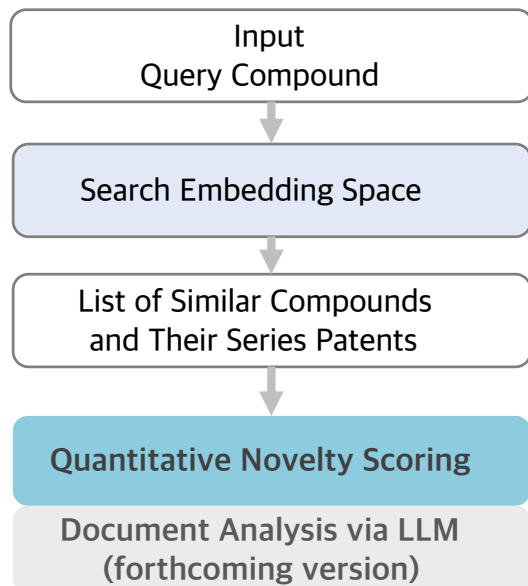
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SPICA Workflow and Example

Query



Molecule Embedded Space
Learned from molecules in Patent DB



Human's 4hr-work to a few seconds

Molecule	Novelty Score	Patent Conflict	Related Patents	Pharmaceutical Patent?	Related Disease Described	Related Targets Described
O1C=NN=C...	0.62	Neutral	WO2005...	Yes	Gastric Cancer	None
O=C(NC1=N...	0.59	Not conflict	WO2015...	Yes	Diabetes	TPL2

US 20220005608A1

(19) **United States**
 (12) **Patent Application Publication** (10) **Pub. No.: US 2022/0005608 A1**
 KOO et al. (43) **Pub. Date: Jan. 6, 2022**

(54) **METHOD OF PREDICTING DISEASE, GENE OR PROTEIN RELATED TO QUERIED ENTITY AND PREDICTION SYSTEM BUILT BY USING THE SAME** (30) **Foreign Application Priority Data**
 Jan. 31, 2020 (KR) 10-2020-0012169
 Dec. 23, 2020 (KR) 10-2020-0182375

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