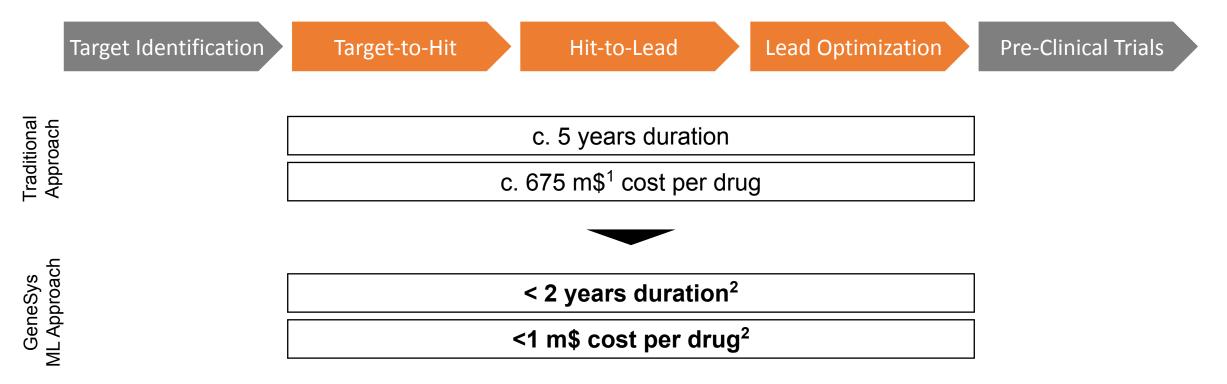




GeneSys: "Generative Molecular Synthesis for Drug Discovery"

GeneSys helps cutting the Drug Discovery process by 75%

The Drug Discovery Process



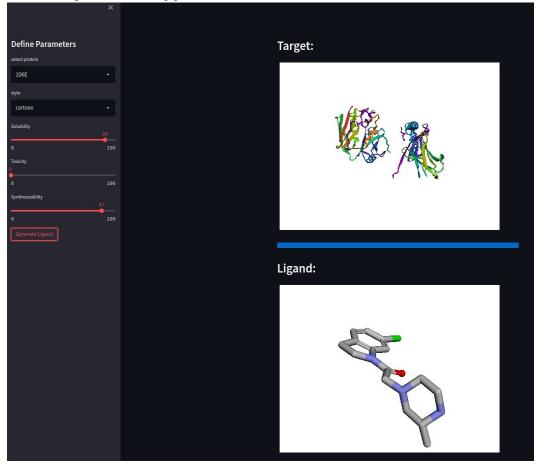


¹ Paul SM et al Nat. Rev. Drug Disc. 9:203-214. 2010.

² Capgemini 2021; Deep Pharma Intelligence 2022.

GeneSys is as software which designs optimized hit compounds (i.e. ligands) to a predefined target molecule

GeneSys Prototype



Workflow and Technical Description

- Customer provides a 3D model of the target (e.g. PDBx/mmCIF format)
- 2. The Customer Indicates Feature/ Criteria that the Ligand shall fulfil (e.g. toxicity)
- 3. GeneSys uses a Graph Neural Network to build a Representation of this Target
- 4. From the Representation and the Criteria a Transformer Neural Network Architecture determines the optimum ligand in SELFIE format
- 5. Another Neural Network transforms the SELFIE into a 3D model of the ligand



The Deep LS team brings all relevant expertise and experience

Leadership Team

Daniel Sorić

- Managing Director (Commercial)
- Industrial Engineer
- 14+ years various Business Development Roles











Felix Kamieth

- Managing Director (Technology)
- Electrical Engineer
- 14+ years Al and Data Science experience and teaching









Mentors

Prof. Dr. Igor Štagljar

- Mentorship via BIRD Incubation
- University of Toronto, Department of Biochemistry
- Member of European Molecular Biology Organization, Fellow of the Royal Society of Canada











