



# A Croatian Bioinformatics company that provides an Innovative Generative AI Drug Discovery Platform for Small Molecules and Peptides and is looking for partners from the Biotech or Pharma Sector

## Summary

	Profile type	Company's country	POD reference
	Technology offer	Croatia	TOHR20230628022
	Profile status	Type of partnership	Targeted countries
	PUBLISHED	Research and development cooperation agreement	• World
		Investment agreement	
		Commercial agreement with technical assistance	
	Contact Person	Term of validity	Last update
	Rita ELSTE - TOMSONE	28 Jun 2023	28 Jun 2023
		27 Jun 2024	
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### General Information

#### Short summary

With its generative AI platform, a Croatian company supports Pharma Research companies in accelerating their Drug Discovery Processes by applying a novel software solution for De Novo Drug Design. The company is looking for a partner from the Biotech or Pharma sector who is doing research on a dedicated target protein, has Biochemistry expertise, but wants to complement this newest AI technologies.

#### Full description

A Croatian Bioinformatics company provides a generative AI platform to support Pharma Research Companies in accelerating their Drug Discovery Processes by applying a novel software solution for De Novo Drug Design. Its software generates Small Molecules and Peptides, and also features embedded ADMET prediction capabilities. Clients provide a target protein as a sequence or as a 3d shape and the company generates the hit compound and returns it in SMILES or FASTA format. In addition to Pharma Companies, this technology may also be interesting to the Cosmetics, Nutrition, and Chemicals sectors.

Besides its core generative AI platform capabilities, the company also supports its clients along the whole Drug







Discovery Process, starting from target identification and reaching to the clinical phase. While the generation of ligands is the core functionality, its software also features on target/off target combinations or multiple targets. It can also be applied to other techniques, e.g. scaffold hopping.

The company is looking for a partner from the Biotech or Pharma sector who is doing research on a dedicated target protein, and has Biochemistry expertise, but wants to complement it with the most modern Bioinformatics and AI capabilities. The company is open to act as a consortia partner, co-develop a new drug, or act as a supplier.

Advantages and innovations

Compared to traditional screening methods, generative AI can cut drug discovery process durations by 75% and lower costs significantly.

Its proprietary AI technology yields superior results compared of other generative approaches (e.g. GAN or reinforcement learning) that recently entered the market of generative AI. The Structure Based approach is superior to sequence-based AI

The main USP is that it yields much better results in an environment with scarce data.

Technical specification or expertise sought

Stage of development

Available for demonstration

IPR Status

Secret know-how

Sustainable Development goals

- Goal 9: Industry, Innovation and Infrastructure
- Goal 3: Good Health and Well-being
- Goal 2: Zero Hunger
- Goal 6: Clean Water and Sanitation

# Partner Sought

Expected role of the partner

The company is looking for a partner from the Biotech or Pharma sector who is doing research on a dedicated target protein, and does have the Biochemistry expertise, but wants to complement this with the most modern Bioinformatics and AI capabilities. The company is open to act as a consortia partner, co-develop a new drug, or act as a supplier







Type of partnership

Research and development cooperation agreement

**Investment agreement** 

Commercial agreement with technical assistance

Type and size of the partner

- Other
- Big company
- SME <=10
- University
- SME 11-49
- SME 50 249
- R&D Institution

### Dissemination

Technology keywords

- 06002001 Biochemistry / Biophysics
- 01003003 Artificial Intelligence (AI)
- 06002009 Molecular design
- 05001002 Computational Chemistry and Modelling

Targeted countries

• World

Market keywords

- 04011 Molecular design
- 04006 Cellular and Molecular Biology
- 04012 Toxicology
- 04014 Bioinformatics

Sector groups involved

