

Problem





There are so many **incurable diseases** around the world that **need adequate novel compounds** for the treatment, like:

- Chronic pain still a pandemic in the 21st century and affecting 1.5bn people worldwide
- There are, 7 000 know Rare & Ultra Rare Diseases affects as many as 350 million people in worldwide, 50-66% of which affect children.
- No time to waste: Collaborative efforts in disease drug discovery

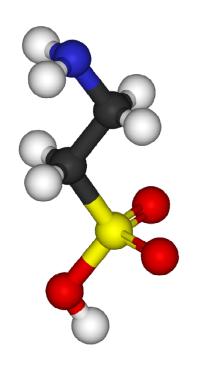
Direct economic healthcare costs for treating diseases worldwide are about \$ 5 000 billion

13 847 diseases, 5 000 treated, 2 300 drugs

Solution



Novel drug molecule is the KEY



Drug Discovery Factory created & provided:

- Drug molecules for treatments of diversity pandemic,
 Rare & Ultra Rare, diseases with unprecedented speed,
 accuracy and diversity Drug Discovery
- Indirect Reduce direct economic healthcare costs
- Positive social and economic impact

Make people smile & healthy

Product proof in Pipeline



novel drug molecule is the KEY

Discover our Drug Discovery Research results for last 1 year:

MIC4578 Chronic Pain (Preclinical)

MIC9211 Alcoholism: AUD (Lead optimization)

MIC2211 Hyperekplexia rare disease (Hit to Lead)

MIC2231 Stiff PS rare disease (Hit to Lead)

MIC2634 Iminoglycinuria rare disease (Hit to Lead)

MIC6479 Pancreatic Cancer (Preclinical)

MIC6701 Colorectal cancer (Lead optimization)

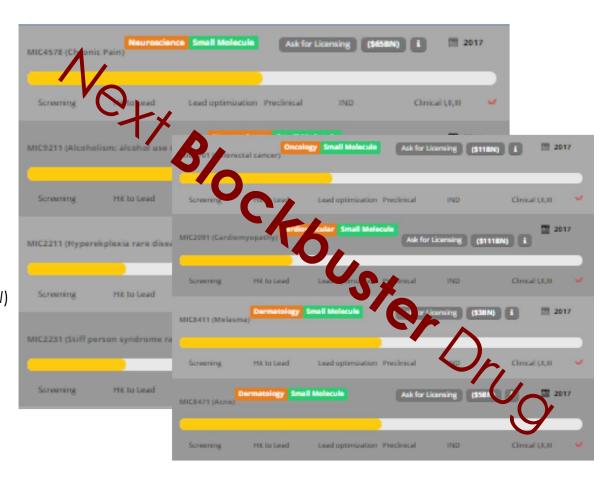
MIC2091 Cardiomyopathy (Hit to Lead)

MIC8411 Melasma(Hyperpigmentation) (Preclinical)

MIC8471 **Acne** (Preclinical)

Therapeutic areas

Neuroscience // Oncology // Cardiovascular // Dermatology // Rare & Ultra Rare diseases



The platform Micar21



The platform Micar21 – Micar Innovation drug discovery platform which enables efficient discovery of novel small molecule drug candidates.

The platform Micar21 provides access to screening of billions of molecules and efficient optimization of drug properties in the process of identifying the drug candidate.

The platform Micar21 - structure based in silico drug design & Al

Generation of highly quality structures

We find the target protein (gene) which is involved in certain disease (usually membrane proteins) and then design highly quality structure

New hit compounds discovery by state of art approaches (more than 70% success rate) + Lead

Screening **800 million** molecules

(we look the protein key and refine searching)

Lead optimization of the discovered hits by FEP+ method & computer guided ADMET

7-10 small highly potent and selective molecules with all predicted ADMET

Novel drug candidate (small molecule) is ready to go next Preclinical phase with ADMET - refined structure, absorptions, membranes, toxicology, etc and validated Non Clinical Proof Of Concept.

usually **1-2** small molecules

Our main expertise



Discovering novel small molecule and the demonstration of **true non-clinical proof-of-concept** is a key value-creation step in the clinical development of a medicine.



Micar Innovation seeks to develop product candidates that:

- Address currently unmet medical needs
- Suggest a clear-cut development profile
- Provide an opportunity to be first-in-class or best-in-class

Drug Discovery

Pre-Clinical

IND Enabling Ph

Phase 1

Phase 3

Approval

Marketing

- ← 0.5 1 years →
- Generation of highly quality structures
- Target Validation
- Hit to Lead
- Lead Optimization
- Computed aided ADMET refined structure, absorptions, membranes, toxicology, etc

- Non-Clinical
 Proof of Concept
- PK/PD
- Pilot Tox

GPL Tox Pharmacology CMC

Phase 1 SAD/MAD Phase 2 Clinical PoC

Phase 2



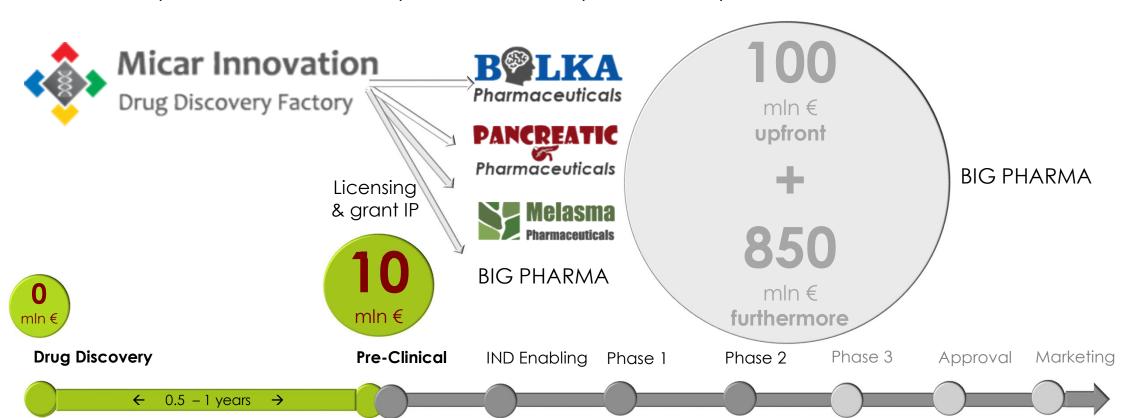
Micar Innovation is actively developing promising first-in-class or best-inclass therapies to treat rare genetic diseases, which mostly affect children. The company has a growing product pipeline, with multiple preclinical candidates in development.

IND (Investigation New Drug application)

Business Model



Business model based on discovering and developing novel drug candidate until **Preclinical phase** – with strong science data of Non-Clinical "Proof of concept" (PoC) and **licensing** them to the best possible commercial partner or new spin out companies.



Spin out companies



novel drug molecule for the treatment of

Chronic Pain



novel drug molecule for the treatment of

Pancreatic Cancer





novel drug molecule for the treatment of

Melasma

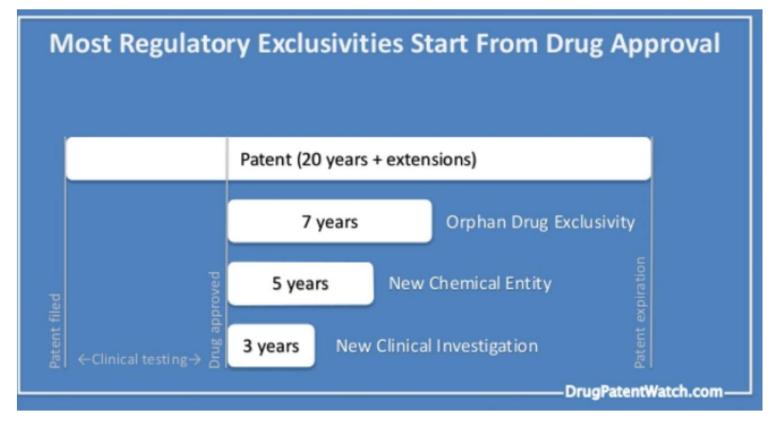
Intellectual property





Patent familySmall Molecule for the treatment of

Priority date Publication number



small molecule is the key

Publications



Publications are only in highly visible prominent international scientific journals



















Micar Innovation, is one of the world's 250 companies in the report alongside corporations such as Sanofi, Merck in Roots Analysis Study on "Computer-Aided Drug Discovery Services Market 2018-2030"

Source: https://www.rootsanalysis.com/reports/view_document/computer-aided-drug-discovery-services-market-2018-2030/207.html

1. Aaranya Biosciences ... 146. Merck ... 147. Micar Innovation

Awards and nominations 🗱

One year - 3 awards

The National Competition "Innovative Enterprise of the Year" Micar Innovation (Micar21) Innovative Enterprise of the Year – 2018

CIDIC - European Centre of Economic Diplomacy Micar Innovation (Micar21) "European CIDIC Award".

Central European Startup Awards Micar Innovation (Micar21) Best Biotech Startup 2017 in CEE

Startup World Cup & Summit

- Regional Finals
- TOP 8 Biotech Award // TOP 50 of the 2018 Startup // World Cup & Summit // Regional Finals!









Micar Innovation Drug Discovery Factory for novel drua molecules















Financial



We looking investment 5 mln EUR



Bolka Pharmaceuticals - Chronic Pain novel molecule for next 15 months financing to reach Clinical Phase I





Pancreatic Pharmaceuticals – Pancreatic Cancer novel molecule for next 15 months financing to reach Clinical Phase I



*Initial investment opportunity



Melasma Pharmaceuticals - Melasma (Hyperpigmentation) for next 15 months financing to reach Clinical Phase I

0.5 mln EUR

*Initial investment opportunity

GENNOME.COM

Precision Medicine (Pharmacogenomics) system for next 15 months financing to reach Clinical Phase I

1.5 mln EUR
*Initial investment opportunity

* ask for Business Plans

