



XVI FORESIGHT TRAINING COURSE

Repurposing to cover unmet needs: the current scenario in Europe and the proposed changes to the Pharmaceutical Legislation

REMEDI4ALL -

A new European consortium to drive <u>patient-centric</u> drug repurposing in rare disease and beyond

Claudia Fuchs

EURORDIS: Rare Disease Europe

claudia.fuchs@eurordis.org





Drug Repurposing, a promising opportunity for rare diseases?

Repurposing NITISINONE for ALKAPTONURIA (Black Bone disease)



Inherited genetic condition; due to mutations in the HGD gene >> accumulation of homogenistic acid (HGA) and its oxidized form alkapton.

Progressive disorder.

NITISINONE

Initially developed as weed killer.
It blocks the production of HGA.





Long-lasting and fruitful collaboration between patient group and academia >> Nitisinone is the first licensed drug for Alkaptonuria



Drug Repurposing, a promising opportunity for rare diseases?

Repurposing LONAFARNIB for Hutchinson-Gilford PROGERIA



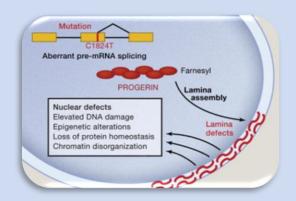
Ultra-rare autosomal dominant genetic condition; due to mutations in the LMNA gene >> altered nuclear protein Lamin A >> cells die prematurely.

Rapid and drastic aging beginning in early childhood.

LONAFARNIB

Initially developed to treat cancer.

It acts as farnesyltransferase inhibitor >> reduces the farnesylation of prelamin A (progerin) and inhibits its accumulation







A phase II trial showed an increase in the lifespan of HGPS patients treated with Lonafarnib >> in 2022 Lonafarnib FDA and EMA approval



Drug Repurposing is promising opportunity for rare diseases, but....

...there are currently <u>several hurdles</u> that hamper the wider adoption of drug repurposing as an alternative solution to increase the throughput of therapeutic solutions for patients...



Lack of a dedicated regulatory pathway in the EU with clarity on role of market authorization holders



Investigators lacking drug development experience in a fragmented ecosystem



Unrecognized benefits of repurposing as a form of innovation in pricing and reimbursement







Current EU-funded inititaives on Drug Repurposing



Develop a European industry-level online platform for validated **precision** drug repurposing

Radboudumc

SIMPATHIC

Accelerate drug repurposing for rare neurological, neurometabolic and neuromuscular disorders



Develop a sustainable
European innovation
platform to enhance
patient-centric
repurposing of medicines
for all







REMEDi4ALL strategic vision



Develop and implement a European platform that facilitates <u>fast and cost-effective patient-centric</u> development and implementation of repurposed medicines, <u>meeting high unmet medical needs in any disease area.</u>



Build a complete, visible and accessible value chain for patient-centric drug repurposing



Create a think-tank that develops and advances drug repurposing policy





How we try to do this...

THE REMEDI4ALL **CONSORTIUM IN NUMBERS**

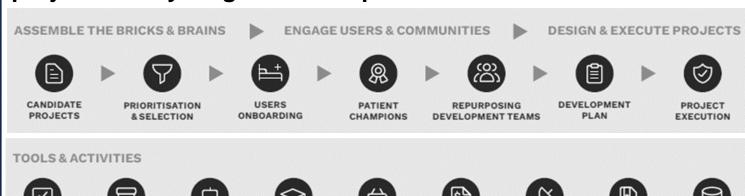
DEMONSTRATOR PROJECT

> 24 **PARTNERS**

YEARS OF WORK (start Sep. 2022)

PILLAR 1

Assembling EU's "Bricks and Brains" to support high impact DR projects at any stage of development



PROVIDERS

PILLAR 2

PORTAL

Future-proofing the repurposing process







OF SERVICES



ACADEMIC-DRIVEN

DEMONSTRATORS MARKETPLACE





AGREEMENT



FUNDING





THAT

A PLATFORM

is tested and sustainable

is a complete value chain

is patient-centric

has a vibrant community of practice

> improves framework conditions



The REMEDI4ALL PATIENT-CENTRIC APPROACH

Making medicines not just for patients, but with patients!





- Patients as partners/ co-owners
- Meaningful engagement (clearly planned and defined patient engagement activities)
- Continuous engagement
- Engagement with the most appropriate patients and at the most appropriate time

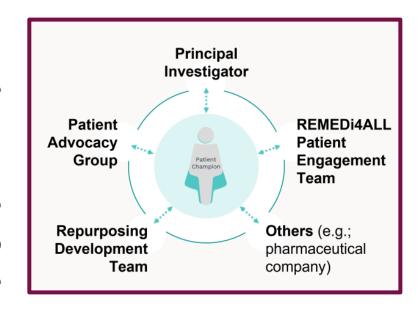


Patients as partners/ co-owners → PATIENT CHAMPION

What is a REMEDi4ALL Patient Champion?

REMEDi4ALL Patient Champions (patient organization representative, patient, carer or patient advocate) are **CORE STAKEHOLDERS**, along with project PIs and technical experts in any repurposing project.

They represent their community and actively participate in our Repurposing Developmental Team Meetings to provide evidence-based insights in all stages of the project.







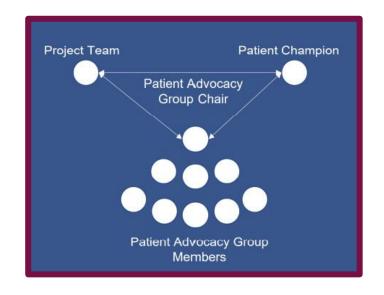


Engagement with the most appropriate patients

→ PATIENT ADVOCACY GROUPS (or alternatives)

No two experiences with a given condition are the same. By establishing a Patient Advocacy Group (PAG, or alternatives) we guarantee a more representative, robust and balanced range of insights into the diseases.

In REMEDi4ALL the PAGs act as an additional source of support and input for the Patient Champion, the project team and the wider consortium.









Meaningful and continuous patient engagement

- REMEDIALL PATIENT ENGAGEMENT PLAN

The REMEDi4ALL Patient Engagement Plan is a living document that helps the project PIs and teams identify and implement patient engagement activities.

Drafting the Patient Engagement Plan is a collaborative effort between the Patient Champion, PAG and the project team.



Aims:

- Define the disease specific patient landscape.
- Provide an overview of how we will engage patients.
- Build a timeline for activities.
- Develop a strategic approach to each engagement activity – what challenge are we looking to solve, and how.
- Assess the impact at every step!





MULTI-STAKEHOLDER MEETINGS

OVERALL AIMS OF A MSM:

- Share information and advance learning, in a pre-competitive and collegial setting.
- Dialogue and constructive interaction between **ALL** relevant stakeholder.

The role of patients in a MSM:

- Share your experience living with the diseases, patient's unmet medical needs and patient's relevant topics in a Multi-Stakeholder environment.
- Learn on the advancement in the field.
- Initiate fruitful collaboration/partnerships with research teams.







1st REMEDi4ALL Multistakeholder Meeting

Drug Repurposing, an Attractive Strategy in Pancreatic Cancer Treatment?



14th November 2023



9:00 am - 5:30 pm



Nhow Brussels Bloom.

Rue Royale 250, 1210. Brussels, Belgium.

Organised by:



With the support of:





























GET IN TOUCH!

Do you have an interesting drug repurposing project? Get in touch with through our REPURPOSING CONCIERGE and let's talk!

https://remedi4all.org/repurposing-concierge/

SAVE THE DATE

for our 1st INTERNATIONAL DRUG REPURPOSING CONFERENCE!

BRIDGING BOUNDARIES
INNOVATING, CONNECTING & RESHAPING DRUG REPURPOSING

6-7 MARCH 2024, Barcelona

https://remedi4all.org/international-drug-repurposing-conference/