



Deliverable

D3.7 1-day workshop for industry	
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Lead beneficiary	1 - EKUT
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Explanation according to GA Annex I:

1-day workshop for industry ensuring links with industry.

Abstract:

This deliverable report describes the organization of two events involving participants from industry to transfer the strategies and achievements from the Solve-RD project.

Introduction:

The concept of the 'industry workshop' has been defined by the Solve-RD Steering Committee: We wanted to conduct a competition between analysis service providers to solve unsolved cases (i.e. cases which remain unsolved by the reanalysis efforts in WP2 task 1). The plan was to announce the competition once the manuscript on data reanalysis has been submitted. However, this has been severely delayed and the idea could not be realized.

We have therefore organized and contributed to two alternative events:

- On 20 June 2024 we gave a webinar "Solve-RD industry workshop: Strategies for omics data analysis & reanalysis" and
- Solve-RD partners and data have contributed to the Undiagnosed Hackathon organized by the Wilhelm Foundation from 8-9 June 2024 in Nijmegen, the Netherlands, in which industry also participated.

Report:***Solve-RD industry workshop: Strategies for omics data analysis & reanalysis***

On Thursday, 20 June 2024, we organized a webinar "Solve-RD industry workshop: Strategies for omics data analysis & reanalysis". The aim was to present participants from industry the strategies we developed for Solve-RD for omics data analysis and reanalysis, and to discuss challenges, advantages as well as future developments.

The webinar attracted 31 registered attendees. The recording has been uploaded to our Solve-RD YouTube channel and is available via [this link](#).

For participants from industry only

SOLVE-RD WORKSHOP

Strategies for omics data
analysis & reanalysis



TIME
12:00 PM



THURSDAY
20 June 2024

MORE INFO: WWW.SOLVE-RD.EU



Solve-RD workshop: strategies for omics
data analysis & reanalysis

AGENDA

1. Welcome
2. Data reanalysis approach - Sergi Beltran
3. Solvathon concept - Holm Graessner
 - Example from RNAseq & multi-omics Solvathon - Vicente Yopez/Anna Esteve
 - Example from long-read sequencing & Optical Genome Mapping Solvathon - Alexander Hoischen
4. Q & A
5. Perspective - Holm Graessner

Undiagnosed Hackathon

Several core Solve-RD partners co-organized and hosted the Undiagnosed Hackathon 2024 ([Undiagnosed Hackathon 2024](#)) (e.g. Alexander Hoischen [SRUMC], Lisenka Vissers [SRUMC], Christian Gilissen [SRUMC], Steve Laurie [CNAG] Vicente Yopez [TU Munich]). Here, similar to the Solve-RD Solvathons, undiagnosed rare disease cases were aimed to be solved by most innovative data re-analysis and new innovative data generation.

This hackathon utilized close interaction between scientists from academia and industry - this involved e.g. Illumina, PacBio, Bionano, Nostos Genomics, as well as various initiatives and start-ups/spin-offs e.g. Chan-Zuckerberg Initiative, MARRVEL, MOSAIC. All have been invited to this webinar - and shall be informed (slide share and recording) about the future collaborative opportunities.

Conclusion:

Solve-RD has respectively organised or contributed two key events directed at industry stakeholders. Firstly, the webinar “Solve-RD industry workshop: Strategies for omics data analysis & reanalysis” covered the main relevant topics for solving unsolved rare disease patients including re-analysis, Solvathons as a way to operationally structure the collaboration of data and clinical experts as well as novel omics approaches including long read sequencing. Through the attendance and, furthermore, slidedeck and recording a resource for information and communication has been built. This resource will be utilised for preparation of similar activities in the context of the European Rare Disease Research Alliance (ERDERA). Secondly, the second *Undiagnosed Hackathon* was organised that actively engaged industry participants. This hackathon re-used some of the data that were produced in Solve-RD. This event will serve as a blueprint for the Solvathons that will take place in the context of ERDERA.