

ALL BIOMARKERS HAVE A FINGERPRINT

Cloud-based intelligent platform to accelerate personalized drug discovery

Efficient. Flexible. Patient-centric.





EIT Health is supported by the EIT, a body of the European Union







18 years

+ 400 failed trials

1 treatment

Heterogenous diseases are hard to crack







Poor biological knowledge

Failure of one-drug-fits-all

Stratification









\$5.5B

Invasive

Difficult to access

Significantly more expensive

90% of patients leave clinical trials

How many promising drugs will be abandoned or their evaluation seriously delayed?"

- President, Global Alzheimer's Platform Foundation

NATION & WORLD > Posted June 5 Updated June 5

Pfizer had clues its blockbuster drug could prevent Alzheimer's. Why didn't it tell the world?

iLoF Platform: Building a cloud-based library of personalised biomarkers and biological profiles



• Overcoming limitations of traditional 'omics to create patient molecular phenotypes





Integrating large volumes of optical and patient data to create rapid phenotyping and prediction tools



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Enabling efficient, fast and adaptable trials



(*) – According to calculations using real scenarios/data. Validated with economic buyers and experts.

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Case Study 1: Commercial collaboration with a biotech company developing an Alzheimer's therapeutic

Future

applications



Client Biotech developing a drug for Alzheimer's Disease

Target 10-20 aa peptide Y expressed in the brain

Goal Demonstrate iLoF's sensitivity to detect and quantify peptide of interest in blood samples

Biotech X

Patient screening for clinical trials
Companion diagnostic



Alzheimer's: A business case

TRADITIONAL METHOD





Top 4 Pharma Groups

400M €

40k patients With PET/CSF

1.15B €

115k patients Trials open for recruiting TODAY

1.6B €

160k patients



Case Study 2: Prognosis in infections diseases with a healthcare provider



Client Large public Hospital

Problem Difficulty managing influx of COVID-19 patients, and optimizing resources

Hospital X

Goal Demonstrate iLoF's ability to stratify COVID-19 patients based on likelihood of ICU admission

Future1) Managing ICU occupancyapplications2) Personalizing treatment



Future vision

Using AI to accelerate personalized treatments for complex diseases

MULTIPLE SCLEROSIS



PARKINSON



COVID-19



BRAIN TUMORS





A health insights platform driven by iLoF tech platform and enabled by a cloud-based library of biological profiles







Managerial Experience, Technical Skills & Passion for Healthcare



Luis Valente (MSc) CEO

- Award-winning business manager
- Management & engineering skills
- Founded first company at 18



Mehak Mumtaz (PhD) COO

- Strategy consultant
- Fellow at Oxford University
- Personalised medicine expert



Paula Sampaio (PhD) CSO

- Research center coordinator
- Light technologies expert
- Senior scientist: >50 publications







A team of > 20 FTE

(inc. 12 PhD)





Catarina Maia (MBA) Head of BD & IP

Former VC for a pharma-led fund

Henkjan Gersen (PhD)

>8 years as Head of Group on

Alex Turpin (PhD)

Pl in Institute La Caixa

consulting firm

Head of Biosignal & Analytics

Post-Doc in Max-Plank Institute

CEO of data science & deep tech

Nanophotonics at Bristol University

Head of Photonics

PhD in Physics

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- Mentor & board of several deep-tech start-ups
- IP expert (>75 patents filled)

Supported by a world class Board of Advisors



Derek Hill

regulatory environment

25+ years of experience

in digital health &

medical imaging,

focused on the

+

Marcus Cicerone

 25+ years of relevant experience in nonlinear light-matter interactions



Jorge Fernandez

 25+ years of experience as an advisor & board member in the healthcare & lifescience industry



David Clifton

Professor & researcher . at Oxford University with + 17 years specialized in clinical AI





"A good life is a collection of happy memories"

-Denis Waitley





Cloud-based intelligent platform to transform drug discovery

Luis Valente, Co-Founder & CEO lvalente@ilof.tech

