

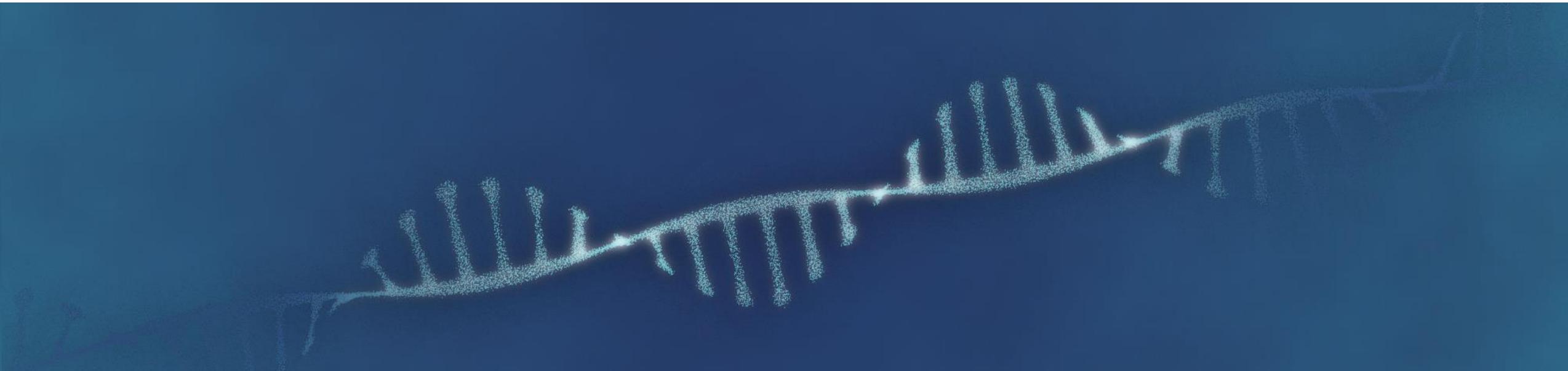


from **innovations** to **health**

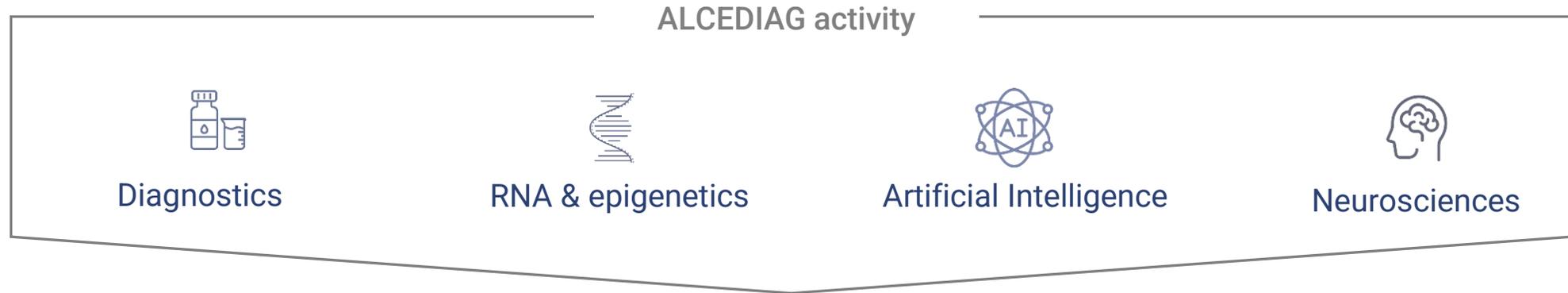
ALCEDIAG

The power of RNA & AI for diagnostics in mental health

November 2025



ALCEDIAG at a glance



Precision Psychiatry

EDIT-B
ALCEDIAG

The first blood test for bipolar disorder, a game changer for millions of patients

ALCEDIAG team : strong management, key interdisciplinary experts and a network of KOLs

ALCEDIAG team: Management team



A. Prioux, MS, MBA
CEO



D. Weissmann, PharmD, PhD
Dep. CEO / CSO



D. Staner, MS Economics
CBO

And key experts for...



Molecular biology



Artificial intelligence



Neurosciences



Clinical development



IP protection



Market access

A strong network of KOLs:



David Kupfer
Distinguished Professor Emeritus of Pittsburgh Univ. Psychiatric Dpt, Head of DSM5 planning committee



Pr. E Vieta
Full professor of psychiatry Clinic Barcelona, Spain
Head of the Dpt of psychiatry



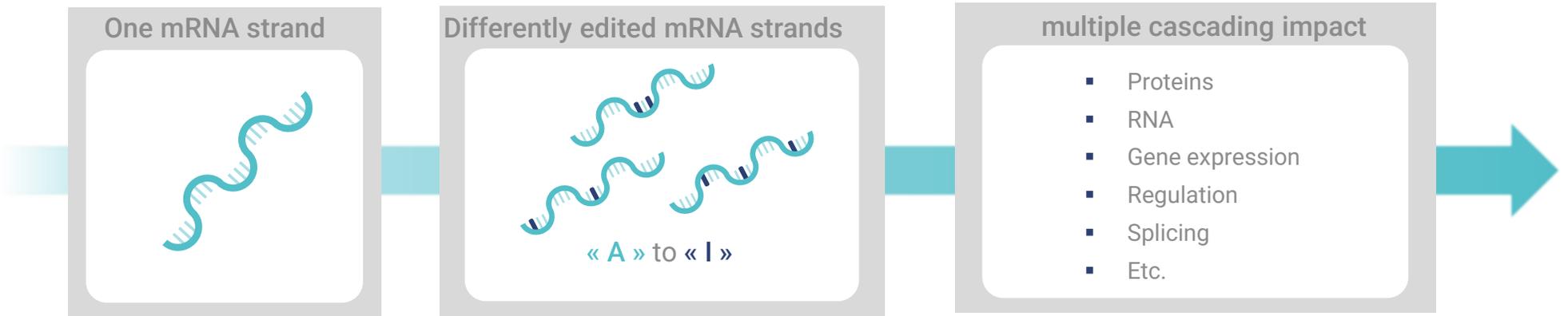
Pr. C. Henry
Full professor of psychiatry, GHU Paris France
Coordinator of the European Network of Centers of Excellence on Bipolar Disorders



Pr. L. Kessing
Full professor of psychiatry
Chair of Copenhagen Affective Disorder research Center (CADIC)

RNA editing, a key mechanism with critical cascading consequences

A - to - I RNA Editing, deamination of an adenosine (A) are deaminated into an inosine (I)



RNA editing & the brain



Regulation of synaptic signal transmission

- Serotonin
- Glutamate
- GABA



Impact in many neuropsychiatric disorders

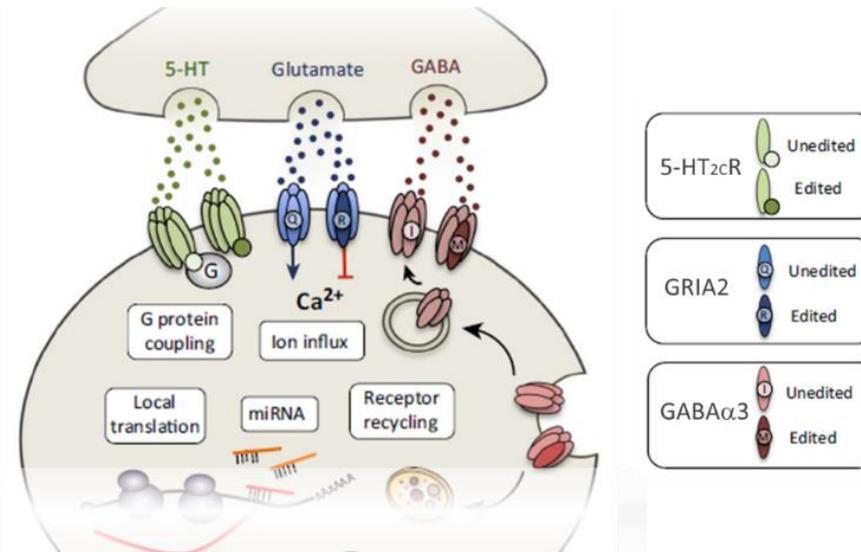
- Bipolar disorder
- Depression
- Schizophrenia
- Alzheimer
- Etc.

RNA editing, a mechanism impacting synaptic transmission

RNA editing & neurotransmitters

Regulation of several key networks

- Serotonin
- Glutamate
- GABA



Adapted from Behm & Ohman 2016 Trends in genetics

Example of Serotonin

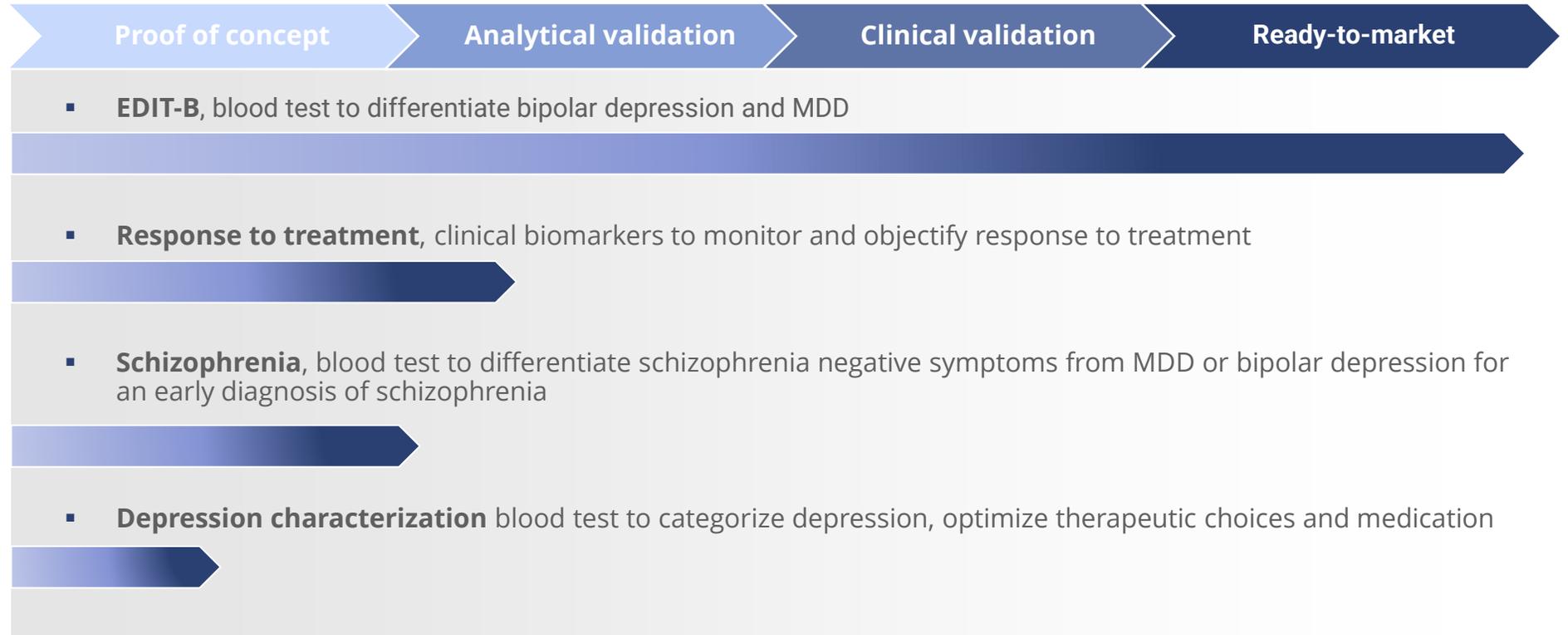
Editing of 5HT_{2C} post synaptic receptor

- alters the binding to G-protein
- affects signal transmission

While

- SSRI antidepressants increase serotonin in the synaptic cleft

ALCEDIAG– pipeline



Depression and bipolar disorder: an overview



Avoidable consequences of the late diagnosis

Deterioration of physical and mental health

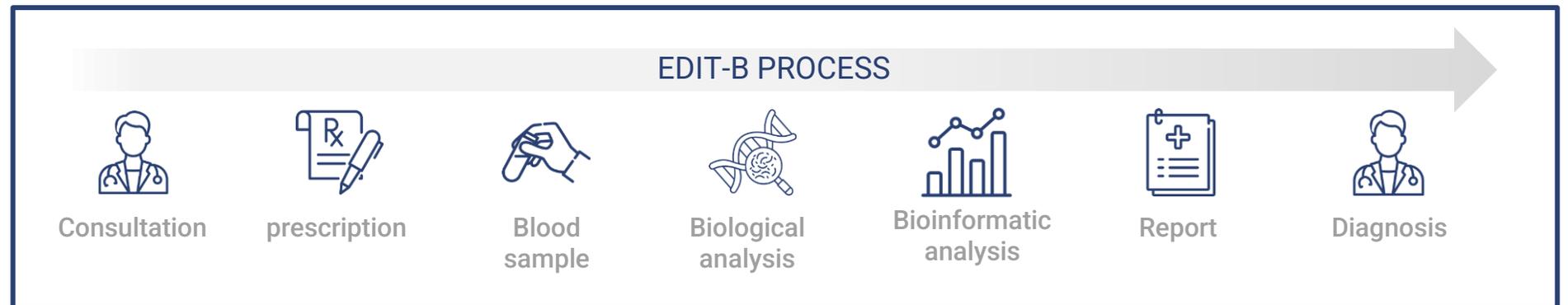
Damaged quality of life

High costs
Up to 30k\$/year/patient

EDIT-B™, a highly-awaited world-class innovation

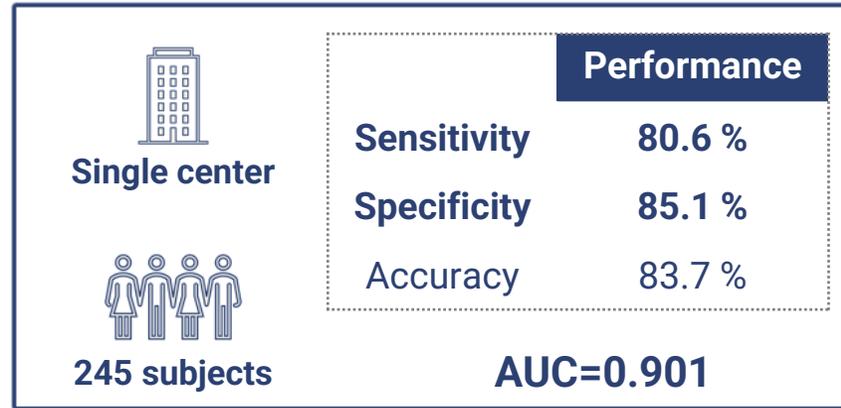
EDIT-B Blood test to differentiate unipolar versus bipolar disorder
ALCEDIAG in patients treated for a major depressive episode

- Aid to diagnosis for clinicians
- Clinically validated
- High sensitivity and specificity (>80%)
- CE marked
- Available in several European countries

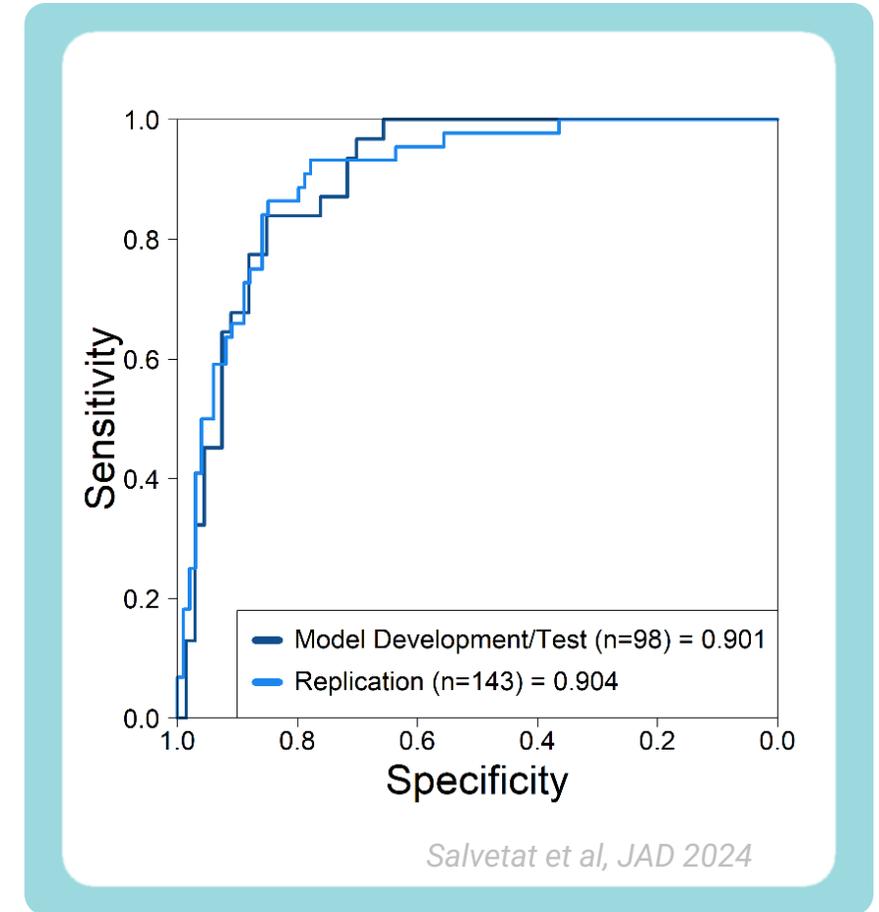
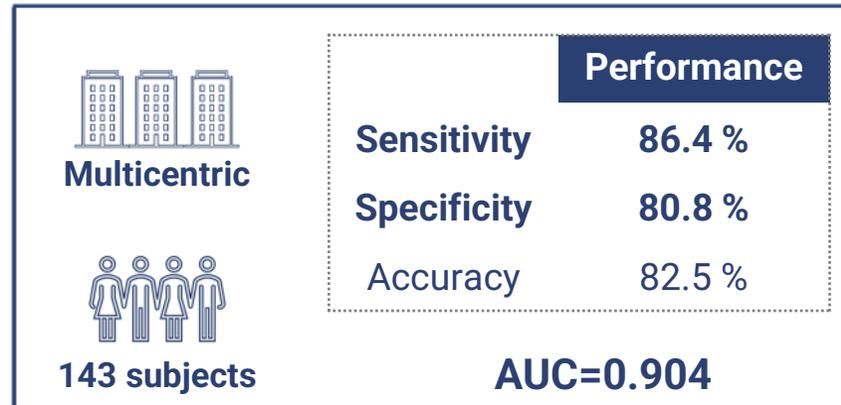


EDIT-B is clinically validated with 2 independent cohorts - published

Clinical Validation



Replication Study on an independent cohort – External Validation



And our most recent results – to be published

EIT Health external Validation study



4 centers



393 subjects

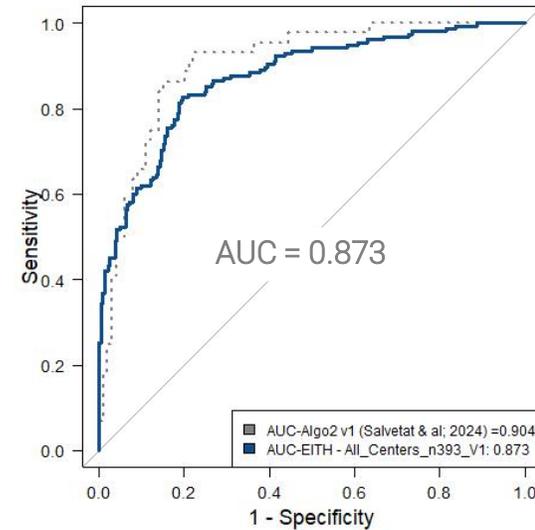
Performance

Sensitivity	82.6%
Specificity	80.3%
PPV	73.1%
NPV	87.6%
Accuracy	81.2%

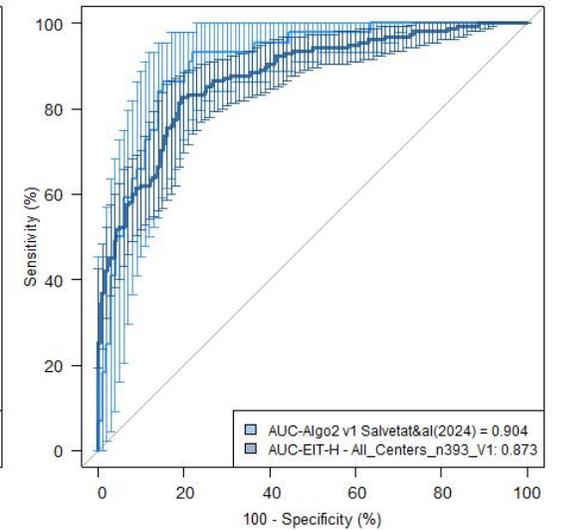
AUC=0.873

CI 95% [0,837 - 0,909]

EIT Health study results



Comparison with Salvetat 24 published data



Towards a successful market access

Key stakeholders

ALCEDIAG

Regulatory, reimbursement,
bioinfo analysis

Medical laboratory

Biological analysis

Promotion partner

Promotion, marketing,
reimbursement



Priorities

KOL engagement

Local SAB, sponsors & early
adopters

Reimbursement

Clinical utility & Health
economics

Awareness & adoption

Local congresses, patients'
association

Key partnerships

Major hospitals, clinics,
foundation

A global methodology to be adapted to each country specificity

Real-life pilot with Clariane

A mixed-methods pilot (qualitative & quantitative) involving the distribution of **63** (30 in Spain, 33 in France) EDIT-B tests by Alcediag for routine use among

clariane in  

Psychiatrist Satisfaction
Level

8,9/10

Patient's Acceptation
(Psychiatrist Point of View)

8,8/10

EDIT-B test's **Recommendation to**
Colleagues

9 /10



"A long-awaited innovation"



"Clinical support for diagnosis and treatment acceptance"



"Tool that can assist in diagnosis"

EDIT-B competitive landscape

➤ No equivalent in the World

					
Test type	Blood test Aid to diagnosis	Questionnaire + Blood test Screening / exploratory test			Medical Device Electrovestibulography
Description	Blood test to objectively diagnose bipolar disorder and to differentiate patients with bipolar disorder from patients with depression.	<ul style="list-style-type: none"> Target: large panel of mental health conditions Questionnaire Blood test to screen for disease and risk of future events 	<ul style="list-style-type: none"> Target: panel of 15 mental health conditions Questionnaire with up to 635 mental health related questions Blood test including 17 biomarkers 	<ul style="list-style-type: none"> Target: MDD and BD for general practitioners Questionnaire to be included in an app Blood test based on cytokines biomarkers. 	A neuro-electrophysiological measurement platform to identify biomarkers of mental and neurological disorders.
Performance	Sensitivity & specificity >80% (AUC 0,9)	65% blood test accuracy	71% blood test accuracy	AUROC: 0,83	80% accuracy
Commercialization	✓	✓	✓	✗	?
Comments		Available in the US	Available in some centers in the UK	Earliest Q3 27	Unclear timeline – website not up to date
		<ul style="list-style-type: none"> Designed to help assess disease severity and guide treatment 	<ul style="list-style-type: none"> Some ongoing research on metabolomic biomarkers 	<ul style="list-style-type: none"> Validation study not started as of Sept. 24 	<ul style="list-style-type: none"> Unclear status

EDIT-B in Europe

- Available in France, Italy and Switzerland
- Coming soon in Spain
- Rest of Europe and beyond in progress

Our lab partners





Our clinical partners

France



Spain



Other



Where we are, where we are going

EDIT-B commercialization

Today

- **Commercialization**
 - Available in several EU countries
 - Discussions outside EU
 - Discussions with large industrials
- **Reimbursement**
 - Clinical utility study ongoing (1,3M€ grant)
 - HEOR modelling ongoing for EU
 - Positive pilot feedback from psychiatrists and patients

Tomorrow

- **Commercialization**
 - Open “Low-hanging fruits” countries
 - Focus on US
 - International development
- **Reimbursement**
 - Secure reimbursement in key countries

New products

Today

- Several proofs of concept and ongoing collaborations

Tomorrow

- A range of diagnostic solutions
- Collaborations with Pharma companies

Key take aways

A fully validated innovation

Independent cohorts & external validations

A major unmet need & a large market

12M+ tests /year in key countries

Positive feedback from psychiatrists & patients

Pilot studies

Patented & first in class

No equivalent on the market

A pipeline of future products

Schizophrenia, treatment response

Our project:

Fundraising 10M€

Commercialize EDIT-B across key international countries

Secure reimbursement

Develop future tests & solutions

Exist in ~3 years (IPO or acquisition by large player)

APPENDIX

Our customers & partners



Contacts

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- www.alcediag-alcen.com



Alcediag publications

➤ Publications available on our website: www.alcediag-alcen.com



- **RNA editing-based biomarker blood test for the diagnosis of bipolar disorder: protocol of the EDIT-B study**
A. Miranda-Mendizabal, et al. *Annals of General psychiatry*, 2025, DOI: 10.1186/s12991-024-00544-8
- **AI algorithm combined with RNA editing-based blood biomarkers to discriminate bipolar from major depressive disorders in an external validation multicentric cohort**
N. Salvetat, et al. *Journal of Affective Disorder*, 2024, DOI: 10.1016/j.jad.2024.04.022
- **Euthymic and depressed bipolar patients are characterized by different RNA editing patterns in blood**
M. Hayashi, et al. *Psychiatry Research*, 2023 DOI: 10.1016/j.psychres.2023.115422
- **A game changer for bipolar disorder diagnosis using RNA editing-based biomarkers**
N. Salvetat, et al. *Translational Psychiatry*, 2022 DOI: 10.1038/s41398-022-01938-6
- **PDE8A to discriminate in blood samples depressed patients and suicide attempters from healthy controls based on A-to-I RNA editing modifications.**
N. Salvetat, et al. *Translational Psychiatry*, 2021, DOI: 10.1038/s41398-021-01377-9
- **RNA editing blood biomarkers for predicting mood alterations in HCV patients;**
N. Salvetat, et al. *J. NeuroVirol*, 2019, DOI: 10.1007/s13365-019-00772-9
- **Brain region-specific alterations of RNA editing in PDE8A mRNA in suicide decedents.**
F. Chimienti, et al. *Translational Psychiatry* 2019 Mar14;9(1):112
- **Emerging RNA editing biomarkers will foster drug development**
S. Van der Laan, et al. *Drug Discovery Today* 2017 Jul;22(7):1056-1063. Review
- **Region-specific alterations of A-to-I RNA editing of serotonin 2c receptor in the cortex of suicides with major depression**
D. Weissmann, et al. *Translational Psychiatry*. 2016 Aug 30;6(8):e878. DOI: 10.1038/tp.2016.121
- **In vitro screening for drug-induced depression and/or suicidal adverse effects: a new toxicogenomic assay based on CE-SSCP analysis of HTR2C mRNA editing in SH-SY5Y cells.**
L. Cavarec, et al. *Neurotox Res*. 2013 Jan;23(1):49-62

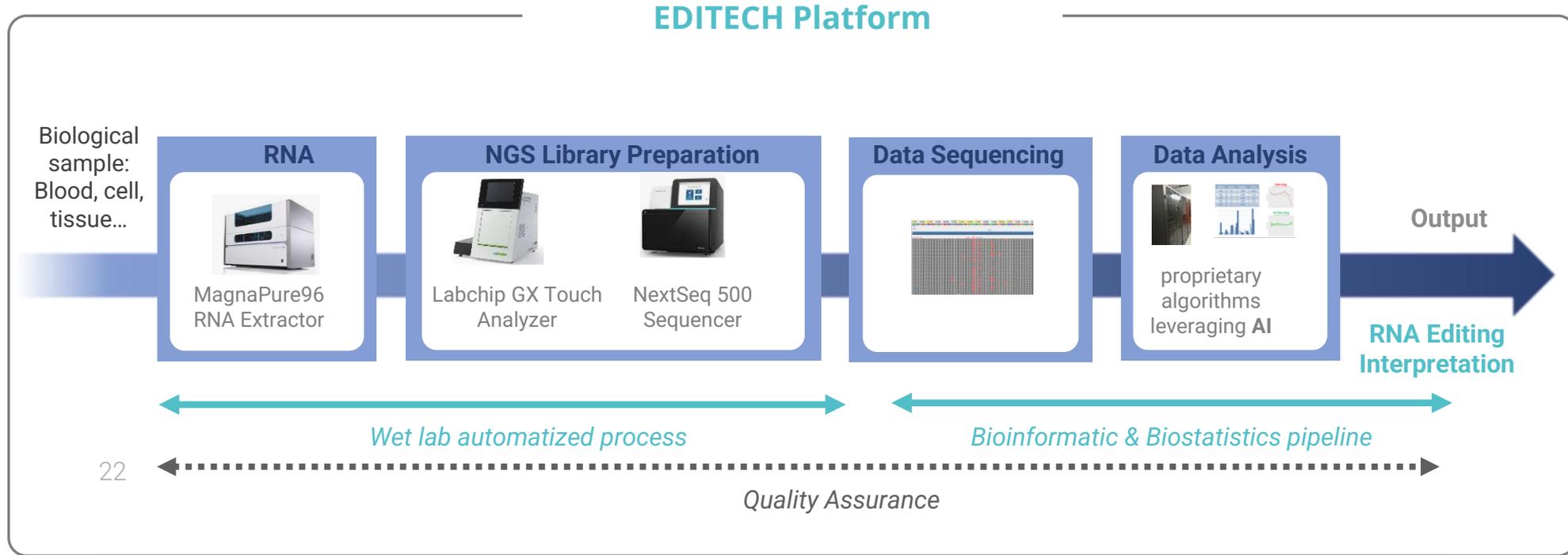
Alcediag Intellectual Property

Patent	Description	Jurisdiction	Status
WO 2008/152 146	Editing blood biomarkers for diagnosis in psychiatry, treatment monitoring, patient stratification	   	Granted
WO 2010/070 074	In vitro method to evaluate drug-induced psychiatric side effects	   	Granted
WO 2011/161 253	Use of PDE8A as a biomarker to diagnose, predict and assess therapeutic efficacy and/or potential adverse side effects	  	Granted
WO 2017/153849	NGS method and algorithm to assess drug-induced psychiatric side effects	      	Granted
WO 2018/020042	Blood biomarkers and algorithm to evaluate suicide risk in patients	      	Granted
PCT/EP 2020/081458	Diagnosing mood disorders using blood RNA editing biomarkers	      	Granted
PCT/EP 2020/081459	Differential diagnosis of bipolar disorder and unipolar depression using blood RNA editing biomarkers	      	Granted
PCT/EP 2023/087115	Differential diagnosing of bipolar versus unipolar disorder in patient during depression phases using A to I RNA editing ZNF267 gene	Filed in Europe	Pending
US63/642982	Method for differentiating patients across healthy control, bipolar disorder, schizophrenia, and schizoaffective groups	Filed in the US	Pending

Legend  Granted
 In progress

ALCEDIAG studies RNA editing on its own proprietary platform that combines Sequencing, data science & AI

Input



22

Proprietary Products
In Mental Health
EDIT-B
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Collaborations & Services:
biotech and pharma collaborations

