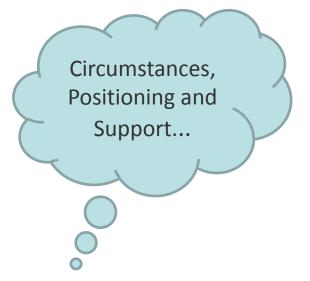


Personal Drive...

# Bringing Mental Illness Out of the Shadows

Prof Sabine Bahn MD PhD MRCPsych University of Cambridge, UK Erasmus MC, NL





## About Me

0 MD and PhD in Molecular Neuroscience

o Honorary Consultant Psychiatrist and Member of Royal College of Psychiatrists

o Professor of Neurotechnology Univ. Cambridge

0 Professor of Translational Neuropsychiatry Erasmus Medical Centre, Rotterdam, NL

## Key decisions/circumstances

o Funding by Stanley Medical Research Institute, USA for 15 years
o Meeting Chris Lowe in 2004 and moving into the Institute of Biotechnology
o Ongoing support from Cambridge Enterprise and RSD
o Strong collaborative network





# The Burden of Mental Illness is Enormous





- 10% of world population affected by schizophrenia, bipolar disorder or major depressive disorder
- > 24% of total YLD (Years Lived with Disability) in Western World
- >15% of burden of disease in established economies
- Schizophrenia alone costs US\$ >> 100B pa (USA and Europe)
- > Early intervention greatly improves clinical outcomes
- > Early diagnosis is a clear unmet clinical need





- Subjective clinical interview
- Solution: Soluti
- No means to stratify disease sub-populations
- Only ~30-40% of patients respond to psychiatric medication
- Difficult to diagnose prodromal or first onset patients
- No objective disease biomarkers available To aid diagnosis

### ESTIMATED BENEFITS OF EARLY DIAGNOSIS AND TREATMENT IN SCHIZOPHRENIA Numbers &

**Opportunities...** 

### Intervention in <u>early symptom phase</u>

| 4.2%            |   |
|-----------------|---|
| <b>1</b> 2-25%  |   |
| <b>↓</b> 64%    |   |
| <b>4</b> 30-70% |   |
| 1 74%           |   |
| 1 27%           |   |
| 88 weeks        |   |
|                 | <ul> <li>12-25%</li> <li>64%</li> <li>30-70%</li> <li>74%</li> <li>27%</li> </ul> |

Sources: Schizophrenia Research 2005 Disease Management and Health Outcomes 2001 Annals Academy of Medicine 2004

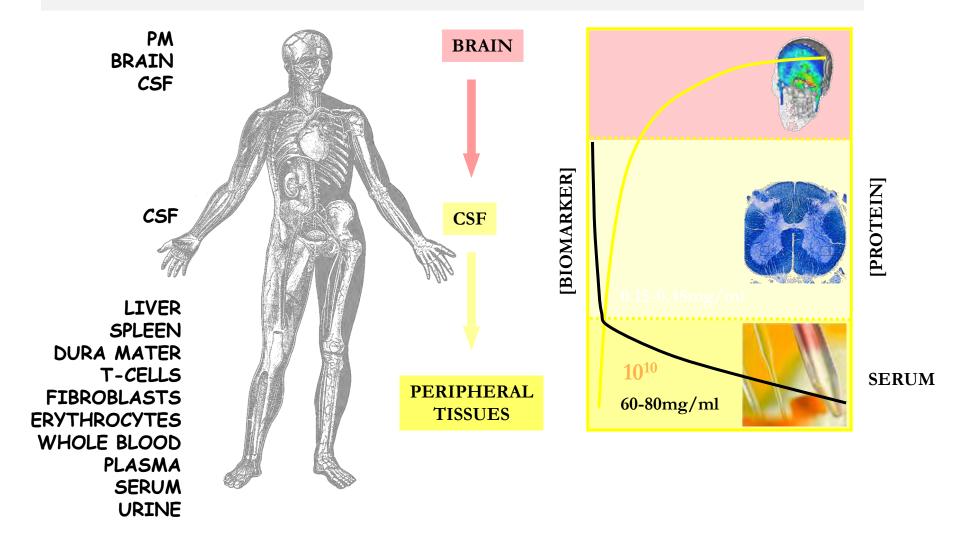
Intervention in prodromal phase

| Incidence               | <b>↓</b> 90% |
|-------------------------|--------------|
| Conversion to psychosis | 1 75%        |

- Data based on current diagnostic tests
- Comparisons with intervention in established  $\triangleright$ disease phase
- Current diagnostic methods poor
- Broad definition, Overlap with other diseases  $\triangleright$
- Subjective, relies on accurate patient history
- At least 6 months for definitive diagnosis (DSM IV))  $\geq$

### Discovery... -

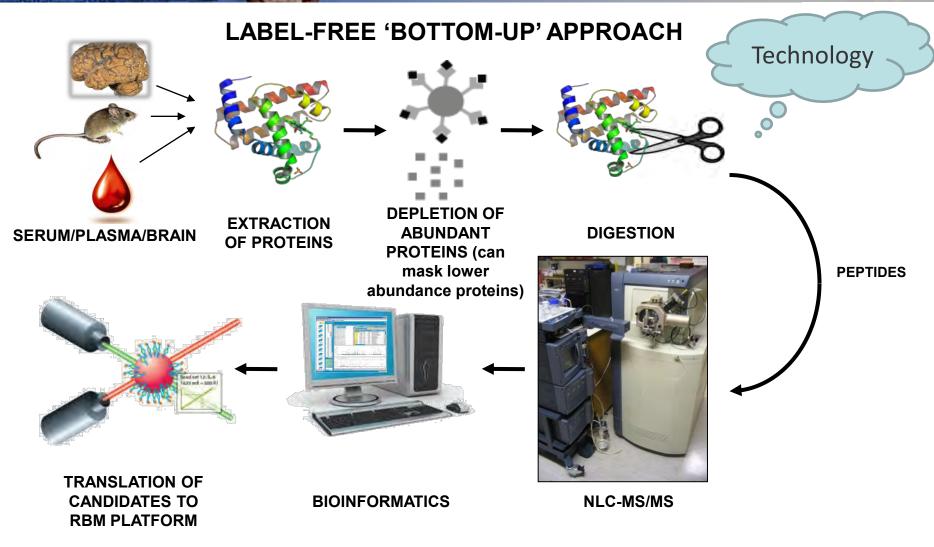
### Schizophrenia is a Systemic Disorder 🔊



### NON-HYPOTHESIS DRIVEN APPROACH TO BIOMARKER DISCOVERY

01655



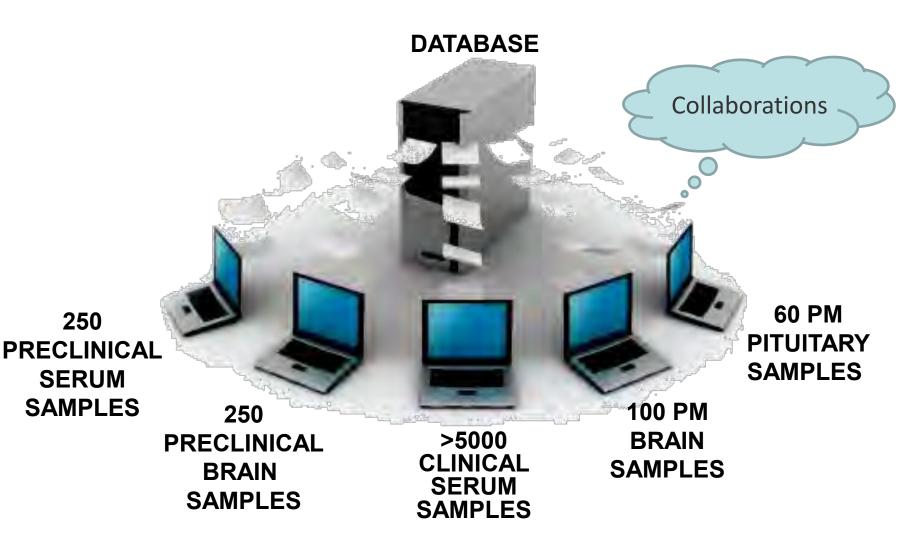




Q1655

EXISTING DATABASE





## **PSYNOVA NEUROTECH LTD**

Personalised medicine for neuropsychiatric disorders



| 2004 | PoC Fund (£25,000)                            |
|------|---|
| 2005 | UCCF investment (£250,000)<br>Company founded |
| 2006 | VC investment (Porton Capital; £1.25m)        |
| 2007 | Medical futures innovation award              |
|      | Partnership with Rules Based Medicine         |
|      | (RBM, Austin,Tx; £1.5m)                       |
| 2008 | Developed /DDN1 identify biomerker nevel for  |
|      | Psynova/RBM identify biomarker panel for      |
| 2009 | schizophrenia                                 |
|      | Product launch: schizophrenia diagnostic      |
| 2010 | Veripsych <sup>tm</sup>                       |
|      | Business weekly: killer 50 company            |
| 2011 | ACES; Best European Life Science Company      |







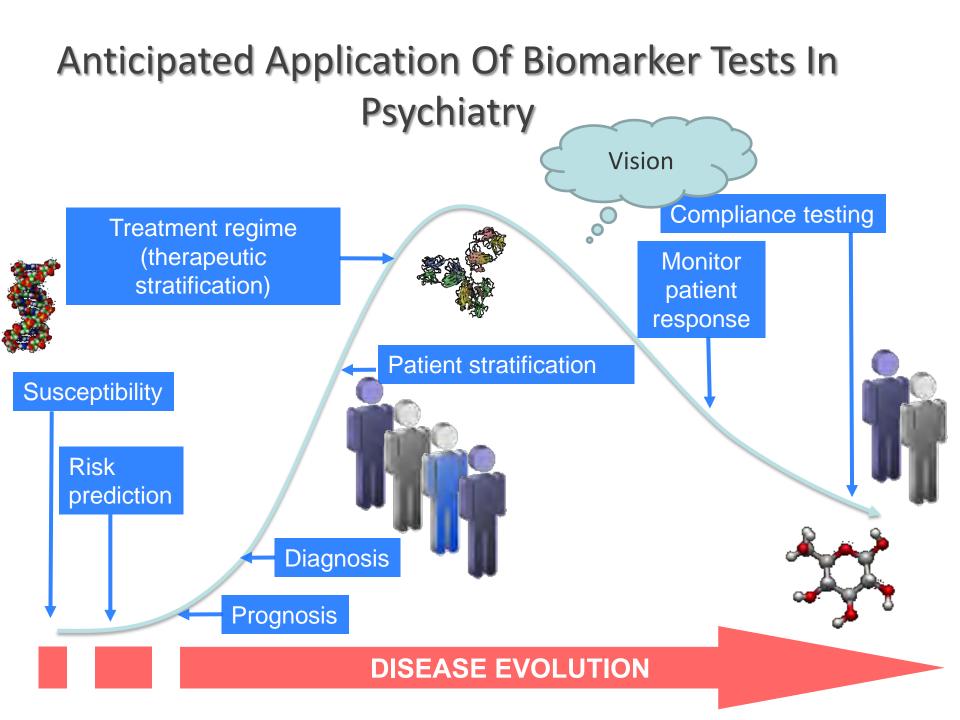
# **PSYNOVA NEUROTECH LTD**



Partnership

# 2008: Co-development of a new bloodbased biomarker test to aid in the diagnosis and treatment of schizophrenia







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#### About

VeriPsych™ is the first and only blood test to aid a psychiatrist in the diagnosis of recent-onset schizophrenia. VeriPsych compares the patient's biomarker profile to that of confirmed schizophrenic patients. It gives physicians, researchers and consumers a new objective evaluation tool. While it is not intended to provide a definitive diagnosis of schizophrenia, or to be used as the sole means of patient treatment, VeriPsych opens a valuable new window into this complicated psychiatric condition.

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Take-Over

# June 2011: Myriad Genetics acquires Psynova Neurotech Ltd and RBM Inc for \$80M

Dedicated to Improving Patient Care at Every Turn.





## The Bahn Lab











