

Resource Allocation in Translational Neuroscience

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NIMH
National Institute
of Mental Health

Two Types of Translation



Pathophysiology
Genomics
Biomarkers
New interventions

Public health interventions
Real world relevance
Services research
Dissemination

Re-Thinking “Mental Illness”

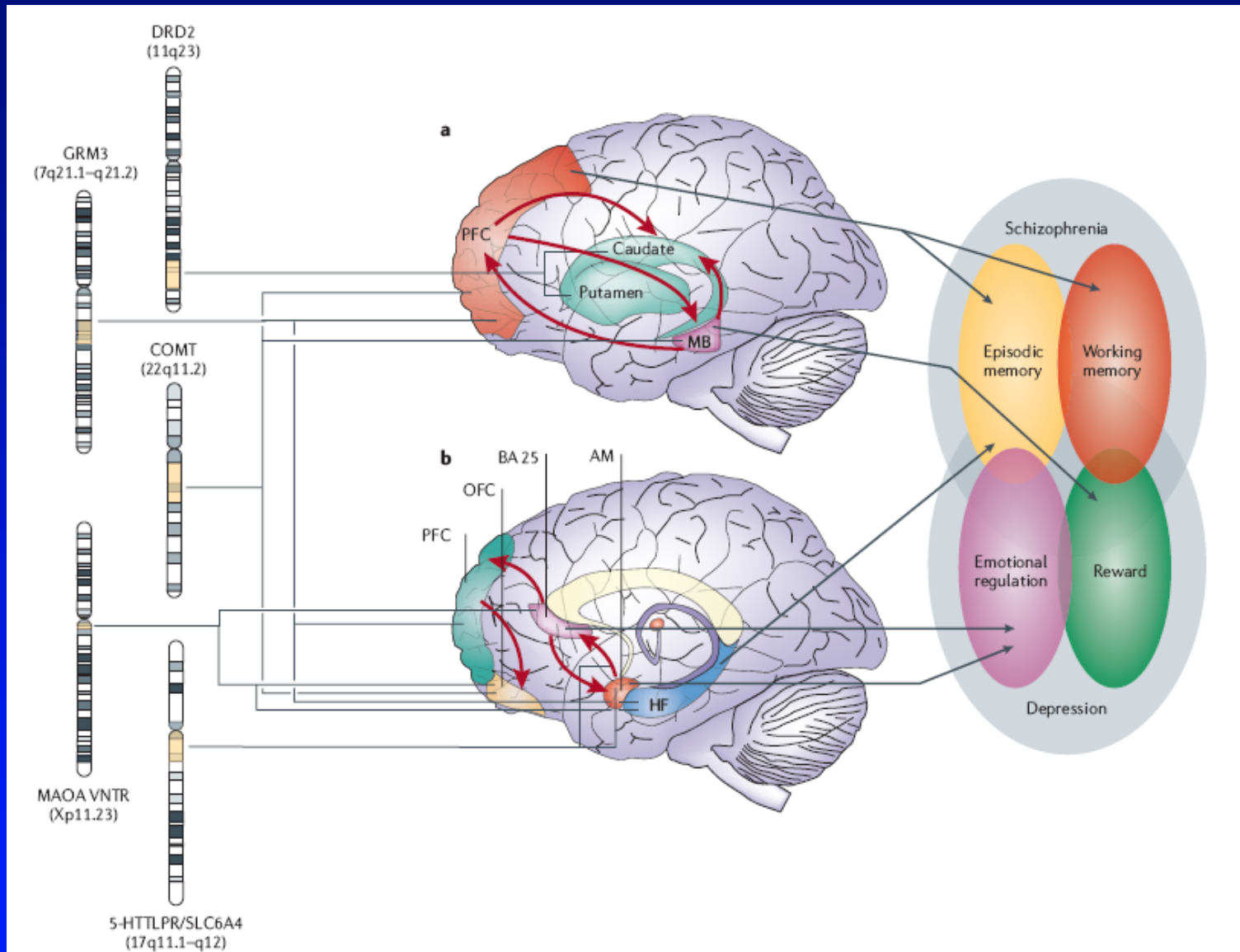
Mental disorders are brain disorders.

Mental disorders are developmental disorders.

Mental disorders result from complex genetic risk plus experiential factors.

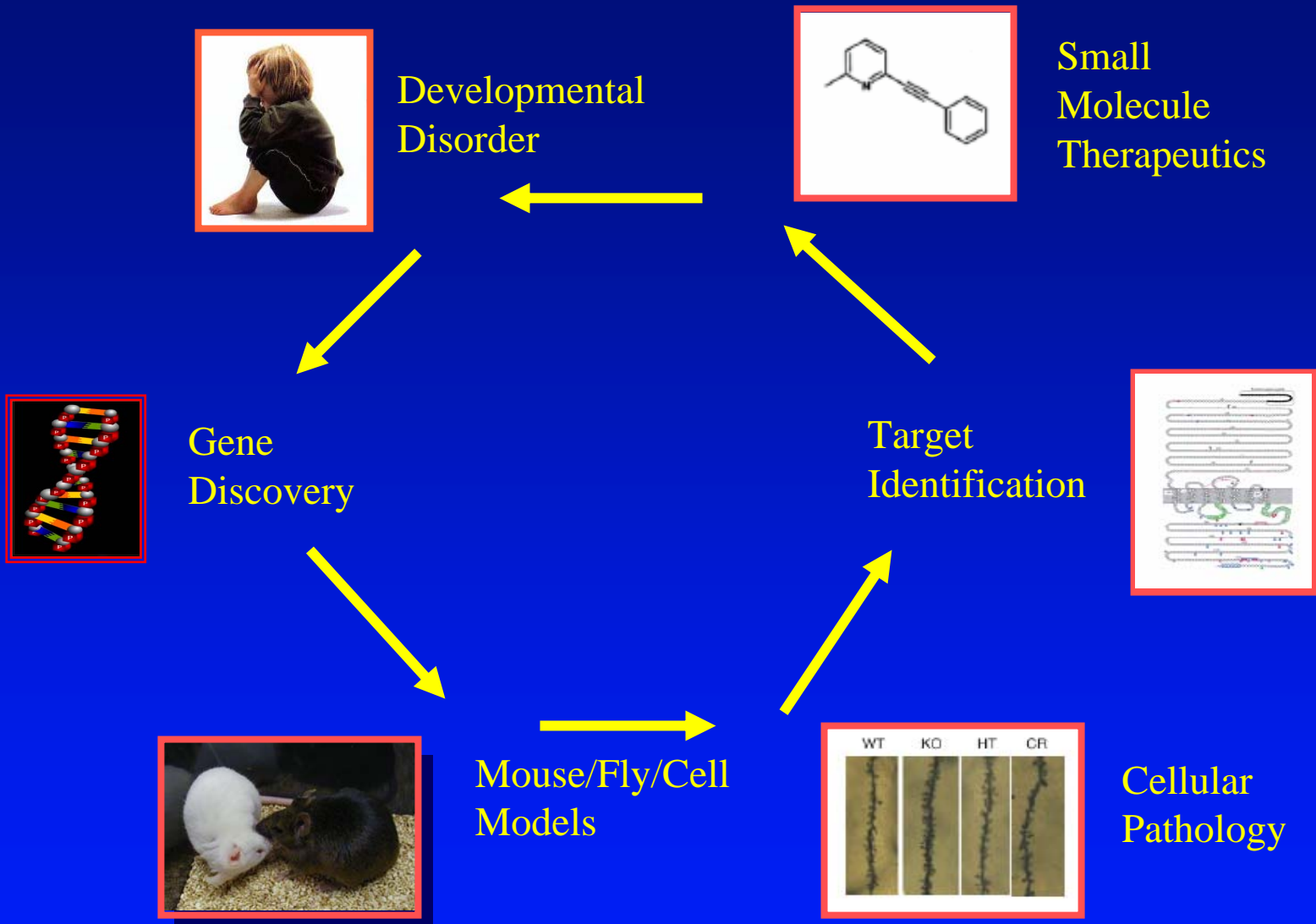
Current treatments may be necessary but not sufficient for recovery.

Pathways to Pathophysiology



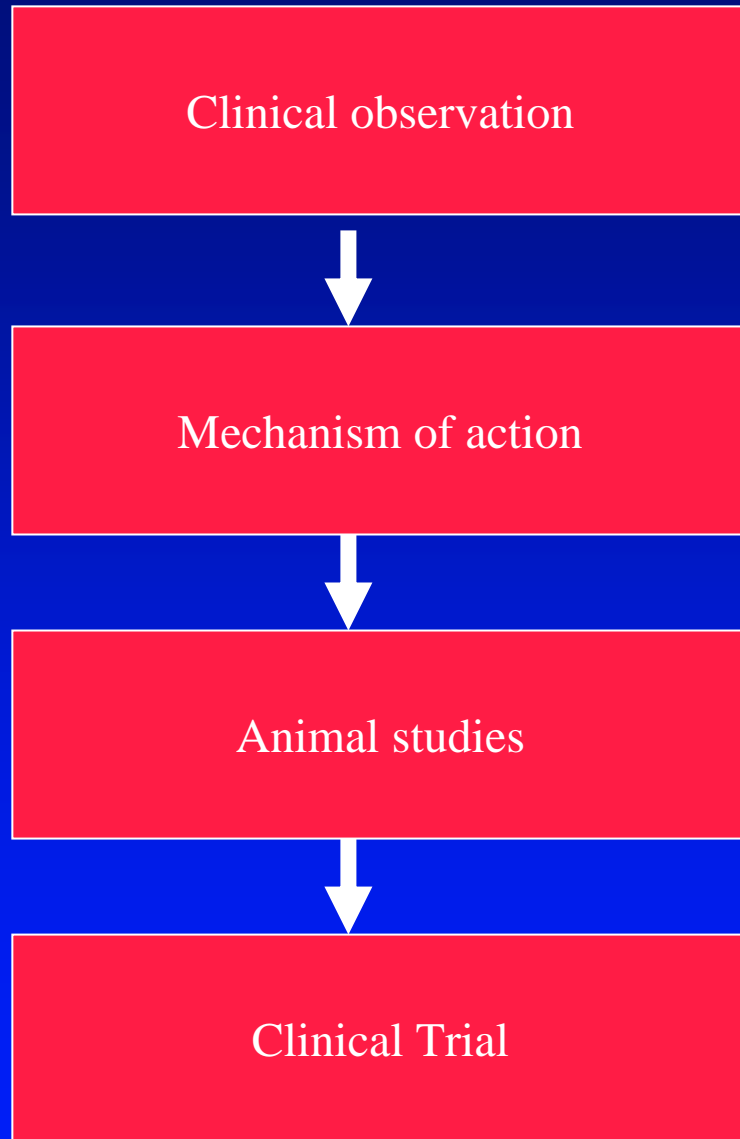
Meyer-Lindenberg & Weinberger, Nature Rev Neurosci, 2007

Reverse Translation – The Molecular Medicine Cycle

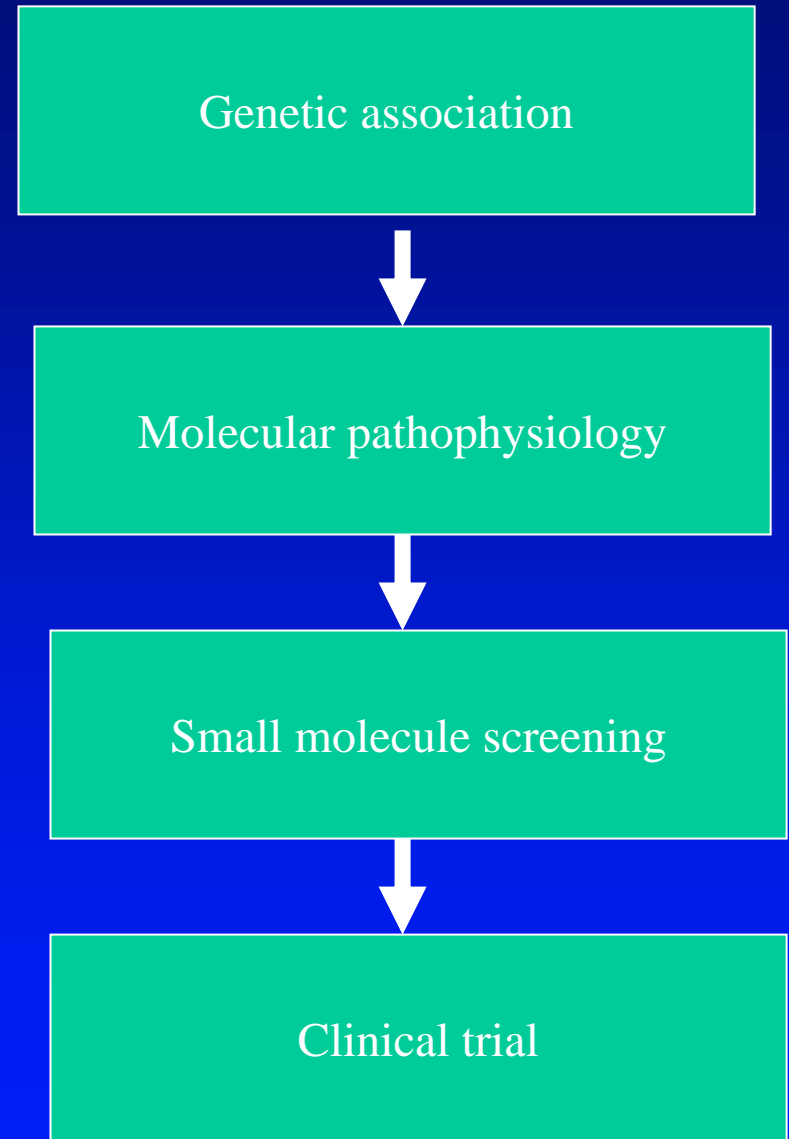


Adapted from Mark Bear, 2008

Psychiatric Medications



Modern Drug Discovery



NIMH Strategic Plan

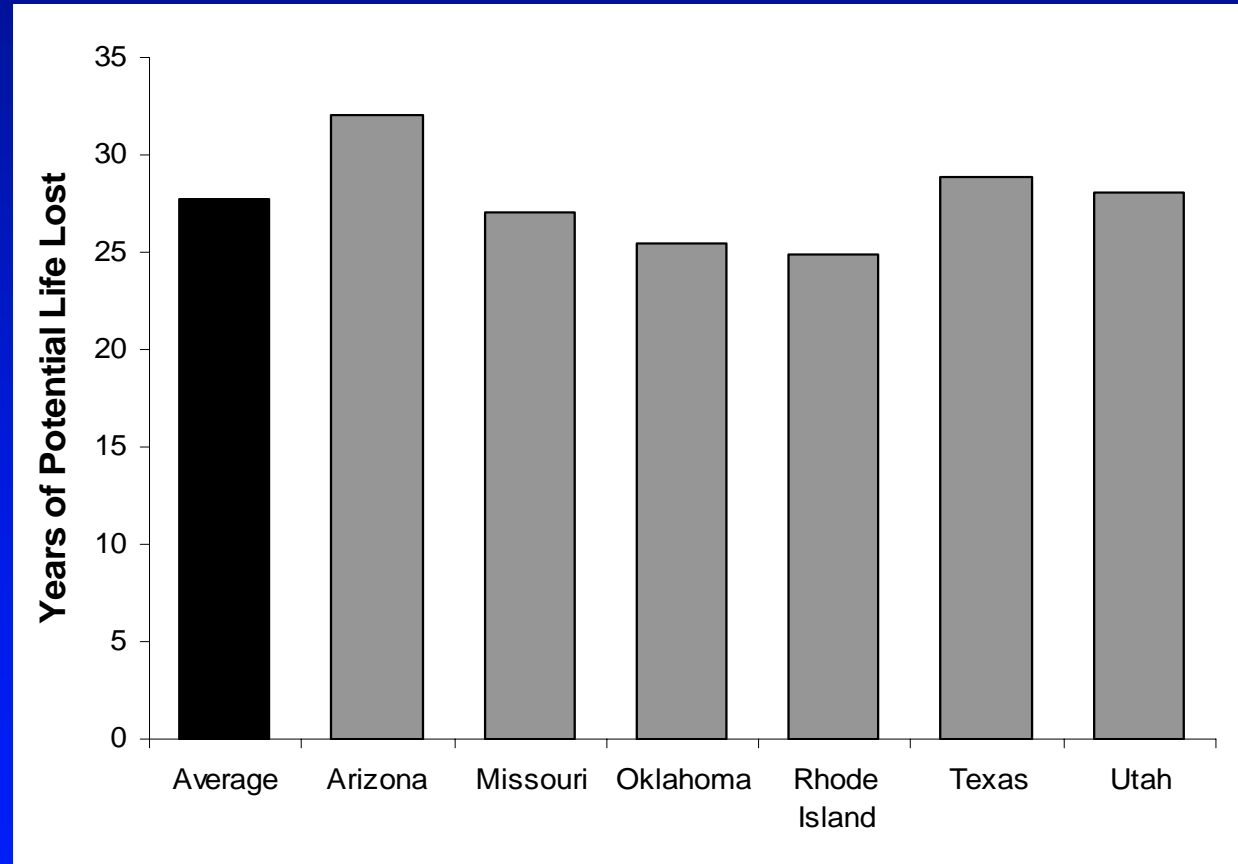
- Strategic Objective #1: Promote Discovery in the Brain and Behavioral Sciences to Fuel Research on the Causes of Mental Disorders
- Strategic Objective #2: Chart Mental Illness Trajectories to Determine When, Where and How to Intervene
- Strategic Objective #3: Develop New and Better Interventions for Mental Disorders that Incorporate the Diverse Needs and Circumstances of People with Mental Illness
- Strategic Objective #4: Strengthen the Public Health Impact of NIMH-Supported Research

NIMH – The 4 P's

- Predictive (Biomarkers, Early detection)
- Preemptive (Early intervention, prevent morbidity)
- Personalized (Individualized interventions)
- Participatory (Partnerships)

Public Health Impact: Early Mortality in Individuals with Major Mental Illness (MMI)

- Data from outpatient and inpatient clients diagnosed with MMI
 - Average age at time of death : 56 years
 - Increased likelihood of dying from suicide



NIMH Mission

To transform the understanding and treatment of mental illnesses through basic and clinical research, paving the way for prevention, recovery, and cure.

The logo for the National Institute of Mental Health (NIMH) features the letters 'NIMH' in a large, white, serif font. The letter 'I' is replaced by a solid black dot.

National Institute
of Mental Health

Paving the Way for Prevention, Recovery, and Cure

www.nimh.nih.gov