OH WOW! PARADIGM SHIFT!
The goal of this new manual, as with all previous editions, is to provide a common language for describing psychopathology.

While DSM has been described as a “Bible” for the field, it is, at best, a dictionary, creating a set of labels and defining each.

The strength of each of the editions of DSM has been “reliability” – each edition has ensured that clinicians use the same terms in the same ways.

The weakness is its lack of validity ... Patients with mental disorders deserve better.
1900

Wernicke
Theodor Meynert
Sigmund Freud
Wilhelm Fliess

The Project

EGO
Wernicke
Theodor Meynert
Sigmund Freud
Wilhelm Fliess

1900

Theodor Meynert
and Sigmund Freud;
Dialog on the future
of Psychiatry

Avi Peled
Theodor Meynert and Sigmund Freud; Dialog on the future of Psychiatry

Avi Peled

1900

Ego psychologists

Object relationships psychologists
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RDoC
Biological Psychiatry

RDoC
Salience network detecting and filtering salient stimuli, variety of complex functions, social behavior, self-awareness through the integration of sensory, emotional, and cognitive information.

Integration of emotional and sensory stimuli, as well as in modulating the switch between the internally directed cognition of the default mode network and the externally directed cognition of the central executive network.

Default mode wakeful rest internal focus daydreaming and mind-wandering. But it is also active when the individual is thinking about others, thinking about themselves, remembering the past, and planning for the future theory of mind. Retrieval of social semantic and conceptual knowledge. Autobiographical memory and future simulations.

Central Executive

- dorsolateral prefrontal cortex (dLPFC)
- Intraparietal sulcus (IPS)
- Posterior parietal cortex (pPC)

Salience network

- anterior insula (AI)
- dorsal anterior cingulate cortex (dACC)
- ventral striatum, amygdala, dorsomedial thalamus, hypothalamus
- substantia nigra, ventral tegmental area

Default mode

- Prefrontal cortex
- Angular gyrus
- Posterior cingulate
- Temporoparietal gyrus
- Lateral Temporal cortex
- Hippocampus
- Parahippocampus
- Retrosplenial Cortex
- Intraparietal sulcus (IPS)
- Dorsolateral prefrontal cortex (dlPFC)

High level cognitive functions such as maintaining and using information in working memory, problem solving, and decision making executive control tasks IQ.
Network Plasticity & Functions

**Environment**

**Executive**

**Salience**

**Default**

Fast Millisecond-range Plasticity (FP)

High level cognitive functions working memory, problem solving, and decision making executive control tasks IQ

Slow Intermediate Weeks-range Plasticity (SP)

integration of sensory, emotional, and cognitive information modulating the switch between the internally directed cognition of the default mode network

Stable Developmental Lifelong Plasticity (DP)

wakeful rest internal focus daydreaming and mind-wandering. Theory of mind Retrieval of social semantic and conceptual knowledge. Autobiographical memory and future simulations

Network Plasticity & Functions
Salience

Karl Friston

Synaptogenesis

Atrophy
Psychiatric phenomenology

Disconnection - disorganization
Over-connection – restriction
Perseveration

Default

Environment

Executive

Salience

HTD – Delusions
HBU – Avolition

Optimization
Mood

Internal representations and personality organization

HTD – Hierarchal Top- Down
HBU – Hierarchal Bottom- up
Psychiatric phenomenology

Environment → Executive

Executive → Salience

Salience → Default

Default → Executive

HTD – Hierarchal Top-Down
HBU – Hierarchal Bottom-up
Salience

Executive

Default

Clinical Brain Profiler
Clinical Brain Profiler
OH WOW! PARADIGM SHIFT!