



HEROIC
HONORABLE
DEDICATED
DUTY
SERVICE
BRAVE
READY
COMMITMENT
COURAGEOUS
SELFLESS
INTEGRITY
VALIANT

MISSION
PATRIOTIC
RESPECT
ALWAYS
COUNTRY
SEMPER
DEFEND

Cohen Veterans
Bioscience

Answering the Call for Change: Lessons Learned and Best Practices - A Funder Perspective

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CEO & President, Cohen Veterans Bioscience

About Cohen Veterans Bioscience (2016-present)

We are a national, nonpartisan 501(c)(3) research organization dedicated to fast-tracking the development of diagnostic tests and personalized therapeutics for the millions of veterans and civilians who suffer the devastating effects of trauma-related and other brain disorders.

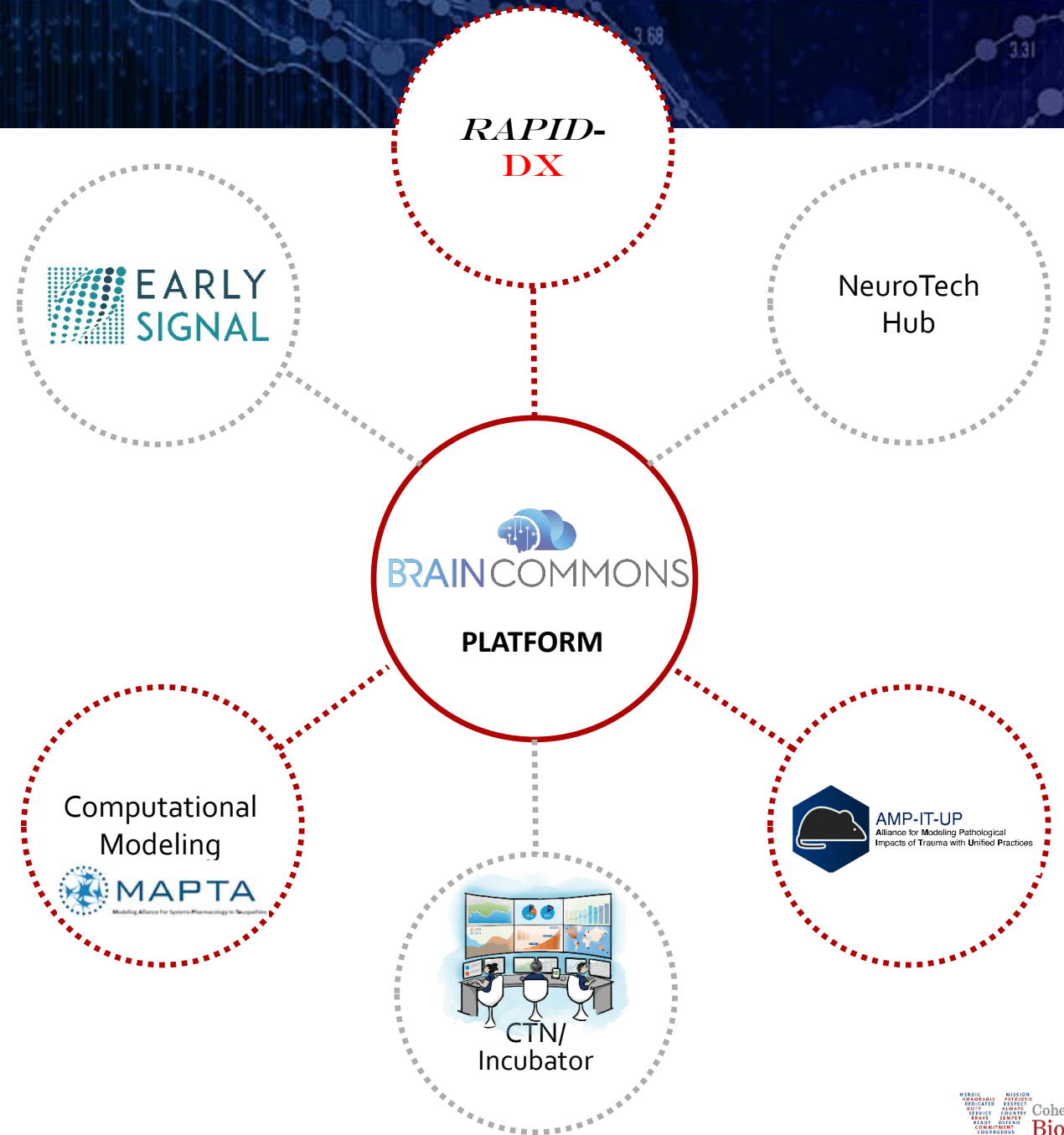
2019 TRAUMA SCORECARD	PTSD	mTBI
# of FDA Approved Diagnostics	0	3*
Qualified Biomarkers	0	1?
Diagnostic Pipeline	?	1+
# of FDA Approved Therapeutics Overall	2	0
# of Therapeutics Approved in Past 17 Years	0	0
Therapeutic Pipeline	>20	>20



A Platform Approach

Our Approach is
to **Build Enabling Platforms**
with **Strategic Partners**,
incentivizing a **Team Science**
approach
to fast-track solutions.

Reproducibility – Robustness - Rigor



Specific Challenges: Reproducibility

Research findings advance science only if they are significant, reliable and reproducible.

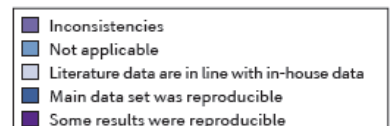
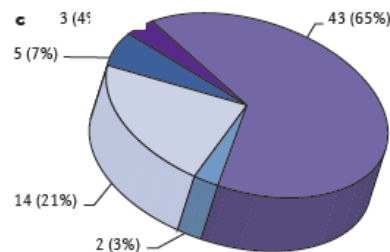
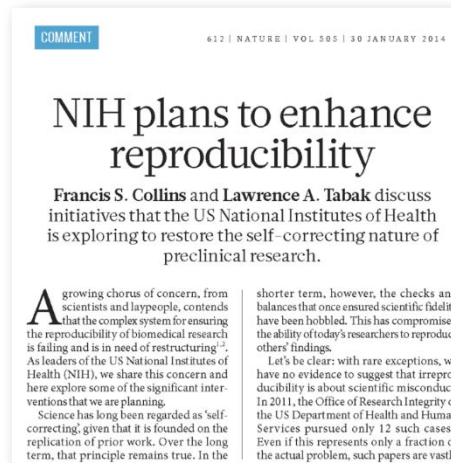


Essay

Why Most Published Research Findings Are False

John P.A. Ioannidis

PlosMedicine, 2005



% Studies in in-house projects reproduced at Bayer (Oncology, Women's Health, Cardiovascular)

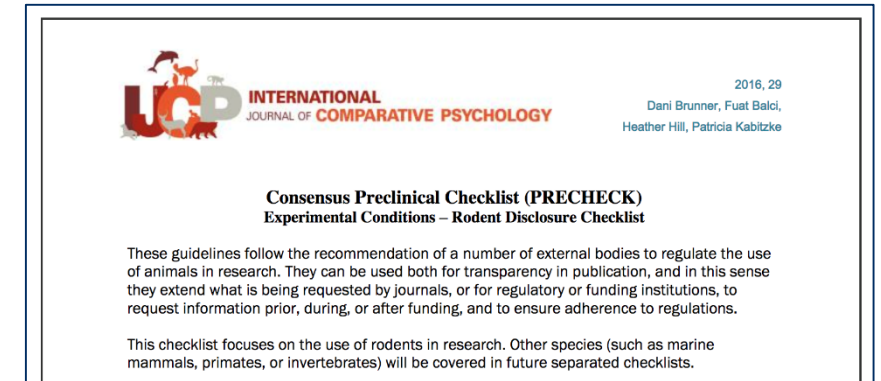
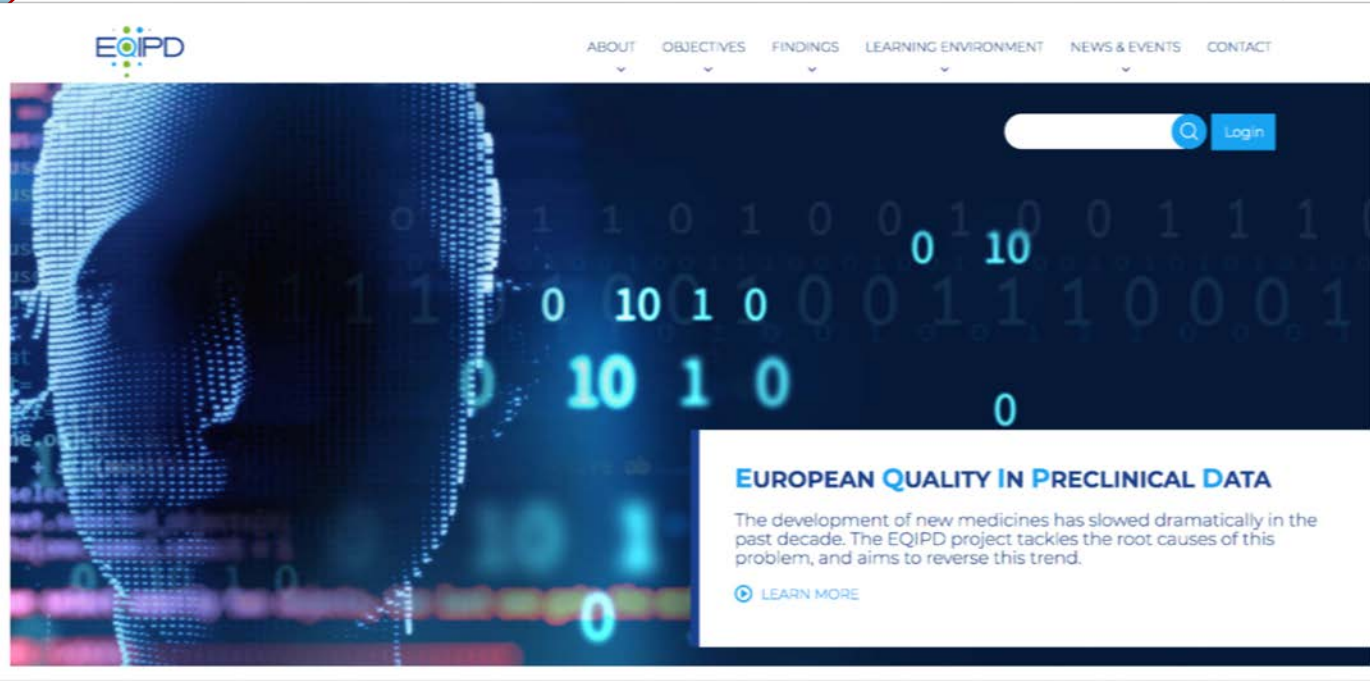
Prinz et al, Nat Rev Drug Dis, 2011

Launch of Multiple Initiatives:

- ❖ Society for Neuroscience
 - ❖ Wellcome Trust
 - ❖ **Preclinical Data Forum**
 - ❖ FASEB
- and more...

Preclinical – sponsorship of projects to change the paradigm

Sponsorship of PDN Workshops for Young Investigators



Joint press release, ECNP and Cohen Veterans Bioscience

World's first prize for “negative” scientific results announced

Embargo until: 00.01 CET (Amsterdam), Wednesday 8th November, 2017

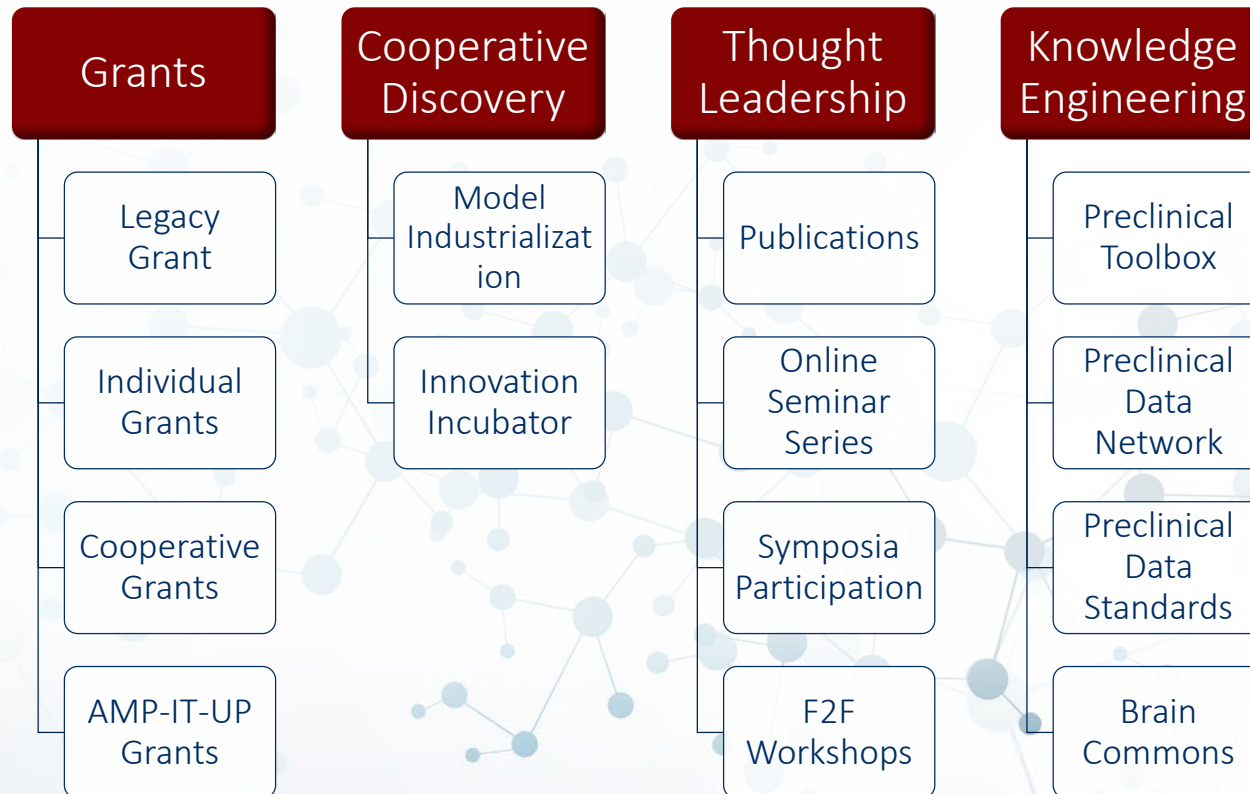
What is believed to be the world's first prize for published “negative” scientific results, the “ECNP Preclinical Network Data Prize” has been announced by the ECNP's Preclinical Data Forum. The €10,000 prize, aimed initially at neuroscience research, is to encourage publication of data where the results do not confirm the expected outcome or original hypothesis.

AMP-IT-UP Consortium

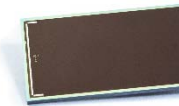


AMP-IT-UP
Alliance for Modeling Pathological
Impacts of Trauma with Unified Practices

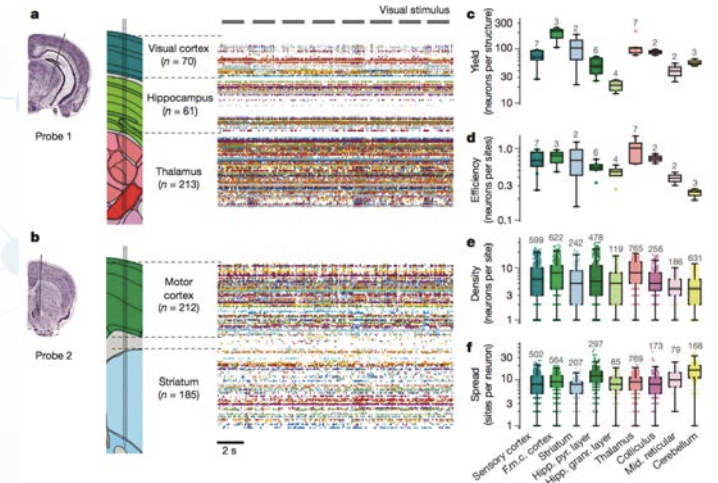
***Mission** is to drive the development of **robust, reproducible, and translational** preclinical models of trauma on the brain by focusing on constructs, bridging the translational divide, creating best practice and data standards, and utilizing cutting-edge technologies and computational approaches.*



Partnership with Psychogenics (CRO) to "INDUSTRIALIZE" translational models of PTSD & TBI



Partnership with IMEC & NIF on Neuropixels Probe



J.J. Jun, Fully integrated silicon probes for high-density recording of neural activity, Nature 2017.



WE ALL MEET IN THE COMMONS


THE NEXT-GENERATION DIGITAL ECOSYSTEM FOR TRANSLATIONAL RESEARCH



A big data cloud-based platform for computational discovery
designed for the brain health community.

SECURE. SCALABLE. SUSTAINABLE.


ENTER THE COMMONS



DATA

Multi-modal datasets integrate-able at all spatial scales.


LEARN MORE



COMMUNITY

Social media based cognitive network promoting productive friction & novel ideas.

LEARN MORE



TOOLS

Intuitive visualization tools coupled with advanced computational modeling.

LEARN MORE

Working on a
Preclinical Data
Model leveraging
NIH Preclinical CDEs!



Funder's Levers

- RFA process – give feedback! Blind the reviewers
- Intramural experts work collaboratively with partner institutions in the conduct of the programs (CVB team has industry-seasoned experts in data science, R&D, diagnostic development, preclinical modeling, etc)
- Ensure that a Statistical Analysis Plan is developed *up front* and executed (provide support when needed)
- Provide the tools and training needed for reproducibility (e.g. the Preclinical Check-list, Biomarker Bake-off results)
- Require real-time data transfer of *all* results (and methods), utilization of CDEs & data standards and require data-sharing through grant agreement mechanisms and enforce by tying to milestone payments
- Ensure funding for data curation/management and open publication fees within grants, and for platform maintenance within organizational budgets
- Support multi-disciplinary consortia efforts that develop and/or disseminate best-in-class methods with academia & industry
- Invest in next-generation technologies and platforms