Overview of the Open Science Prize

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National Institutes of Health

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Wellcome Trust
Why is Open Science Important?

- Opening up access to the research outputs helps:
  - **Accelerate discovery and its application for health benefit**
    - Computational analysis of over 7,700 brain images – made openly available – determined that the first physiological sign of Alzheimer’s disease is a decrease in blood flow in the brain. *Nature Communications*
  - **Maximise the return on our research investment**
    - Human Genome Project – Return on Investment of **141:1**
  - **Enhance research reproducibility and reduce avoidable waste**
    - Other researchers can re-analyse and replicate published studies
  - **Makes research outputs more readily accessible to full range of users**
    - Public, policymakers, health professionals, etc
Why a Prize?

• Challenge global innovators to unleash power of open content and data

• Build a series of compelling exemplars that demonstrate vast potential of open science

• Support new, international collaborations
The Value of Collaboration

• Collaboration, open data and open tools improve the rate and quality of discovery
• NIH, Wellcome Trust and HHMI have converging interest in open data
• Our collaboration can be used to foster more collaboration
The Prize

Two phase competition:

• Phase I (concept)/6 winners - $80,000 each
• Phase II (prototype)/1 winner - $230,000
The Prize

Today

96 applications
Winning prototypes developed
6 prototypes
Public Vote
3 shortlist
Expert advisors and partners choose the winner
Open Science Prize winner

May 2016

January 2017

March 2017
Wellcome Trust

• We support research with the goal of improving health

• Research outputs should be accessed and used to maximise health & societal benefit

• Long-term advocate of open access & data sharing
The Prize

Unleashing the power of open content and data to advance biomedical research

450 solvers from across the globe

45 countries represented

6 finalist teams competing for the grand prize

NIH National Institutes of Health
hhmi Howard Hughes Medical Institute
Wellcome
Submissions

- 96 submissions received
- Solvers from 45 countries spanning 6 continents
- Over 100 entities represented
- Each team has US and international members
Winning Solutions

- BrainBox: Platform for collaborative research
- Modeling tools for neuroscience
- Tracing viral epidemics
- The Open Science Prize
- MyGene²: Sharing rare disease information
- Enhancing clinical trial information
- Better air quality information

NIH National Institutes of Health  hhmi Howard Hughes Medical Institute  wellcome trust
Expert Advisers

- Tim Clark (Harvard Medical School & Massachusetts General Hospital)
- Mark Hahnel (figshare)
- Heather Joseph (SPARC)
- Maria Fabiana Kubke (University of Auckland)
- Brian Nosek (University of Virginia & Center for Open Science)
- Ida Sim (University of California, San Francisco)
- Kaitlin Thaney (Mozilla Science Lab)
Looking Ahead

Today: Showcasing of prototypes

Public voting Starts Today

To vote, visit www.openscienceprize.org

Expert Advisers to Review the Top 3 Selections

Final winner to be announced: March 2017

#opencienceprize