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| For New and Renewal Applications (PHS 398) – DO NOT SUBMIT UNLESS REQUESTEDPHS 398 OTHER SUPPORT |

**VOGELSTEIN, J.T.**

**ACTIVE**

R01 OD019123 (Smith) 8/1/2013 – 7/31/2019 1.68 calendar

NIH (TRA); Prime: Stanford $278,510 (Subcontract)

Title: Synaptomes of Mouse and Man

The major goals of this project are to discover the synaptic diversity and complexity in mammalian brains, specifically comparing and contrasting humans with mice, the leading experimental animal.

GRANT11551224 (Vogelstein) 1/1/2014 – 6/30/2015 0.75 calendar

DARPA (GRAPHS) $278,976

Title: Scalable Brain Graph Analyses Using Big-Memory, High-IOPS Compute Architectures

The major goals of this project are to design, implement, and deploy graph analytics on heterogeneous commodity hardware for the analysis of brain (and other) graphs.

1R01EB016411 (Burns) 3/15/2013 – 1/31/2015 1.0 calendar

NIH (CRCNS) $207,077

Title: The EM Open Connectome Project

The major goals of this project are to develop open-source software and publicly accessible infrastructures for the neuroscience community to collect, curate, and analyze electron microscopy connectomes.

1R01DA036400 (Mitra) 3/15/2013 – 1/31/2015 0.23 calendar

NIH (BIGDATA); Prime: CSHL $94,173 (JHU Subcontract)

Title: Computational Infrastructure for Massive Neuroscience

The major goals of this project are to develop a data-intensive architecture for the management and analysis of massive mouse brain imaging datasets

FA8750-12-2-0303 (Priebe) 9/10/2012 – 3/9/2017 0.0 calendar

DARPA (XDATA) $125,000

Title: Fusion and Inference from Multiple and Massive Disparate Distributed Dynamic Data Sets

The major goals of this project are to develop and extend rigorous statistical theory and practice to perform various inferential tasks when the data are massive, distributed, and dynamic.

1R01MH099647-01 (Deisseroth) 7/01/2012 – 6/30/2017 N/A

NIH (TR01); Prime: Stanford $30,000

Title: CLARITY: Fully-Assembled Biology

The major goals of this project are to develop technology to enable peering into the structural and functional connectomes of nearly intact neural circuits.

N/A (Vogelstein) 2/11/2013 – 2/11/2015 N/A

Child Mind Institute $75,000

Title: Endeavor Scientists Training Fellowship

The major goals of this project are to analyze MR derived brain imaging data using rigorous statistical methods in collaboration with the Child Mind Institute.

**PENDING**

(Vogelstein) 3/1/15—2/29/18 3.0 calendar

DARPA $215,250 (7 months)

Title: From RAGs to Riches: Utilizing Richly Attributed Graphs to Reason from Heterogeneous Data

Multiple, large, multifarious brain imaging datasets are rapidly becoming standards in neuroscience. Yet, we lack the tools to analyze individual datasets, much less populations thereof. Therefore, we will develop theory and methods to analyze and otherwise make such data available.

(Christos) 7/1/15--6/30/19 1.0 calendar

Carnegie Mellon Univ (NSF) $16,291

Title: Medium: Collaborative Research: NetCorr: Mining Correspondences in Multiple Networks

Dr. Vogelstein will be involved in all thrusts of the program, specifically focusing on utilizing his neuroscience expertise to ensure utility in domain applications.  Moreover, his extensive background on graph analysis will contribute to the node-level NetCoRR problems.

(Sullivan) 9/1/15--8/31/19 0.2 calendar

NCSU (NSF) $95,772

Title: AITF:FULL:Extreme-Scale Graph Algorithms in Semi-External Memory-Parameters, Complexity, and Practicality

The main goal is to co-design an accelerated parallel graph processing framework for the deployment of parameterized graph algorithms to solve large instances of NP-hard problems in semi-external memory, while improving algorithm design and a nalysis to account for hardware-inspired limitations.

(Milham) 9/1/15--8/31/18 0.9 calendar

NKI (NIH) $34,405

Title: Reliability and Reproducibility in connectomics

The main goal is to generate a dataset on the new Prisma scanners to enable detailed inter- and intra-scanner reliability, as well as provide guidelines to optimize pre-processing of these (and related data).

OVERLAP

No overlap