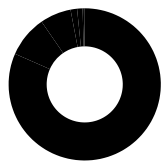


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[Collaborative Research: CSSI Frameworks: SAGE3: Smart Amplified Group Environment for Harnessing the Data Revolution](#)

Research Grant

Award Number2004014Funding AgencyNational Science FoundationEffective Date2020-05-15Expiration Date2025-04-30Funding Amount\$2,249,993

The Big Data revolution necessitates the use of sophisticated tools such as Artificial Intelligence (AI) and Data Visualization to harness the sheer volume, velocity and variety of datasets that are becoming the norm. However, it is the research community that must make sense of the data being amassed, so cyberinfrastructure must extend to people. SAGE3 (Smart Amplified Group Environment) puts the human in the loop by providing scientists with an intuitive framework that integrates state-of-t...

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[Multimetric Event-Driven System for Long-Term Wireless Sensor Operation for SHM Applications](#) Publication

IDIEEE:8979367Published Date2020-05-15JournalIEEE Sensors Journal, 2020-05-15, Volume 20

Wireless sensor networks (WSNs) are promising solutions for large infrastructure monitoring because of their ease of installation, computing and communication capability, and cost-effectiveness. Long-term Civil structural health monitoring (SHM), however, is still a challenge because it requires continuous data acquisition for the detection of random events such as earthquakes and structural collapse. To achieve long-term operation, it is necessary to reduce the power consumption of sensor no...

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[Prospective motion correction of fMRI: Improving the quality of resting state data affected by large head motion.](#) Publication

ID32044436 Published Date 2020-05-15 Journal NeuroImage, 2020-05-15, Volume 212

The quality of functional MRI (fMRI) data is affected by head motion. It has been shown that fMRI data quality can be improved by prospectively updating the gradients and radio-frequency pulses in response to head motion during image acquisition by using an MR-compatible optical tracking system (prospective motion correction, or PMC). Recent studies showed that PMC improves the temporal Signal to Noise Ratio (tSNR) of resting state fMRI data (rs-fMRI) acquired from subjects not moving intentionally...

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[Genome-wide association study of INDELs identified four novel susceptibility loci associated with lung cancer risk.](#)

Publication

ID31577861 Published Date 2020-05-15 Journal International journal of cancer, 2020-05-15, Volume 146

Genome-wide association studies (GWAS) have identified 45 susceptibility loci associated with lung cancer. Only less than SNPs, small insertions and deletions (INDELs) are the second most abundant genetic polymorphisms in the human genome. INDELs are highly associated with multiple human diseases, including lung cancer. However, limited studies with large-scale samples have been available to systematically evaluate the effects of INDELs on lung cancer risk. Here, we performed a large-scale me...

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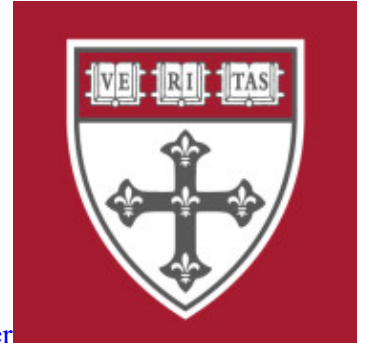
[Invasive traits of veronicellid slugs in the Hawaiian Islands and temperature response suggesting possible range shifts under a changing climate](#)

Publication

IDDOI:10.1093/mollus/eyz042 Published Date 2020-05-05 Journal Journal of Molluscan Studies, 2020-05-05, Volume 86

Abstract Understanding life history traits is important for assessing potential invasiveness, particularly in the context of the future spread of invasive species under climate change. A number of species of Veronicellidae have been introduced beyond their native ranges and have become invasive. Two of these species, *Veronicella cubensis* and *Laevicaulis alte*, are widespread in Hawaii, yet little is known of their life histories. This study of growth and reproduction and their relation to temp...

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[Circulating markers of cellular immune activation in prediagnostic blood sample and lung cancer risk in the Lung Cancer Cohort Consortium \(LC3\).](#) Publication

ID31276202Published Date2020-05-01JournalInternational journal of cancer, 2020-05-01, Volume 146
Cell-mediated immune suppression may play an important role in lung carcinogenesis. We investigated the associations for circulating levels of tryptophan, kynurenine, kynurenine:tryptophan ratio (KTR), quinolinic acid (QA) and neopterin as markers of immune regulation and inflammation with lung cancer risk in 5,364 smoking-matched case-control pairs from 20 prospective cohorts included in the international Lung Cancer Cohort Consortium. All biomarkers were quantified by mass spectrometry-base...

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[Discrete Modulation for Interference Mitigation](#) Publication

IDIEEE:8903449Published Date2020-05-01JournalIEEE Transactions on Information Theory, 2020-05-01, Volume 66
This paper analyzes the performance of discrete input distributions (coded modulation) in interference channels. This approach is motivated in part by the necessity of using coded modulation in practical systems, and in part by the potential of discrete distributions for interference alignment as well as the importance demonstrated by Dytso et al. of discrete input distributions for transmission over the 2×2 interference channel when treating interference as noise. The contribution of...

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[Evaluating the implementation of cervical cancer screening programs in low-resource settings globally: a systematized review.](#) Publication

ID32185604 Published Date 2020-05-01 Journal Cancer causes & control : CCC, 2020-05-01, Volume 31
Cervical cancer disproportionately burdens low-resource populations where access to quality screening services is limited. A greater understanding of sustainable approaches to implement cervical cancer screening services is needed. We conducted a systematized literature review of evaluations from cervical cancer screening programs implemented in resource-limited settings globally that included a formal evaluation and intention of program sustainment over time. We categorized the included studi...

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[Divalent cation influx and calcium homeostasis in germinal vesicle mouse oocytes.](#) Publication

ID32097818Published Date2020-05-01JournalCell calcium, 2020-05-01, Volume 87

Prior to maturation, mouse oocytes are arrested at the germinal vesicle (GV) stage during which they experience constitutive calcium (Ca) influx and spontaneous Ca oscillations. The oscillations cease during maturation but Ca influx continues, as the oocytes' internal stores attain maximal content at the culmination of maturation, the metaphase II stage. The identity of the channel(s) that underlie this Ca influx has not been completely determined. GV and matured oocytes are known to express ...

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[Collaborative Research: Testing for large scale Hawaiian arch volcanism and associated magma sources](#)

Research
Grant

Award Number1936453Funding AgencyNational Science FoundationEffective Date2020-05-01Expiration Date2022-04-30Funding Amount\$37,996

When large volcanic structures such as the Hawaiian islands and seamounts are constructed on the seafloor their mass can cause large flexural bulges in the seafloor surrounding them. In some places, unique volcanic features have been observed along the fractures that form in association with these flexural bulges. The volcanic processes that form these features are not well studied or well understood. In particular, the depth and underlying properties of the magma that feed these submarine vo...

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