Issue 3

Autumn/Winter 2018

IBANGS News

The International Behavioural and Neural Genetics Society

Leadership

IBANGS welcomes Catharine Rankin as the new IBANGS president. Catharine is professor at the University of British Columbia, Dept of Psychology. Her research focuses on identifying the genetic basis of experience dependent plasticity in *C. elegans*, as well as studying the behavioral effects of genes implicated in neurological disorders such as Autism, Alzheimer's Disease and Parkinson's Disease. More details on Catharine's research can be found here [https://rankinlab.psych.ubc.ca/]. Catharine first attended an IBANGS meeting in Brighton in 2000. She served on the program committee from 2004 -2006. She was member at large from 2000-2004 and 2007-2010 and she hosted the Annual Meeting in Vancouver in 2006. Given Catharine's history with IBANGS and her leadership experience, we anticipate a productive term.

A huge THANK YOU to Marissa Ehringer, the society's outgoing president, for her hard work and strong commitment to the success of IBANGS. Marissa has gone over and above the call of duty during her tenure and the society has benefited greatly under her direction. Marissa continues to be involved in all aspects of society activities. Again, thank you Marissa for all that you do!

The Skinny

Genes Brain and Behavior 2019, Edinburgh, Scotland

We are so excited to be hosted by the University of Edinburgh. The local meeting organizers, Seth Grant and Douglas Armstrong, of the Genomics Department together with the IBANGS program committee are building an awesome meeting. If you have any suggestions for workshops and/or round table discussions, please contact either of the program committee chairs, Douglas Armstrong [douglas.armstrong@ed.ac.uk] and

Karl Clark [clark.karl@mayo.edu]. Exciting plans are in the works such as a one day symposium sponsored by the Simon's Initiative for the Developing Brain and a stellar lineup of symposia and speakers. Details will be posted to the meeting page soon: Meeting Information.

Symposia reboot

This year the program committee is changing the symposia structure based on the feedback from last year's meeting. Symposia will be 2 hours in length and include 3-4 Chair-selected speakers with additional 2-3 short talks chosen from the submitted abstracts. This will result in an increase in the number of talks, variation and speaker opportunities. The select talks will be chosen by the Program Committee and will be in the context of the symposia topic. **Submit a symposium proposal for Genes, Brain, and Behavior 2019**. The deadline is November 30, 2018. The symposium submission form can be accessed here: Submit Symposia

Call for award nominations

The call for award nominations is open for the IBANGS Young Investigator and Distinguished Investigator Awards. Criteria and submission guidelines can be accessed here: Call for Award Nominations. Please send nominations to the Awards Committee Chair, Lisa Tarantino [list@med.unc.edu]. **The deadline is November 15, 2018.**

Young scientist travel award fundraiser update

Several months ago IBANGS launched a fundraiser to provide increased support for young scientists to attend the annual meeting. Thanks to the generosity of our members, we have raised **$650**. Each travel award is in the amount of $500. Our goal is to raise enough for 4 travel awards - $2000. The fundraiser is still going on so, if you haven't yet made a donation, please consider doing so. All contributions are welcome. Donations are tax deductible in the US. Donate

Be a part of it

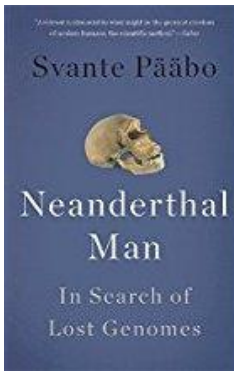
There are opportunities available to participate on IBANGS committees. Taking an active role in our society will help you to build professional relationships with other

scientists in your field that have a lot of expertise to share and the society will in turn benefit from your input and enthusiasm. Please contact the IBANGS secretary, Iiris Hovatta [iiris.hovatta@helsinki.fi] for more information.

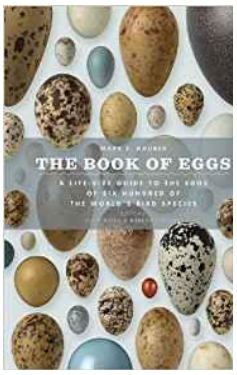
Still talking about the Rochester meeting

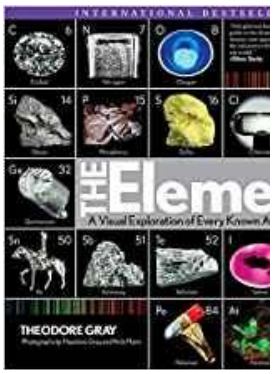
We can't help it! Last year's meeting was one of the best! We're extremely grateful to all of those involved in the planning and organization. A special SHOUT OUT to Karl Clark, Louis El Khoury and Stephanie Ferguson. Flashback:

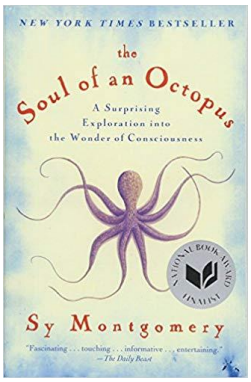
Good Reads

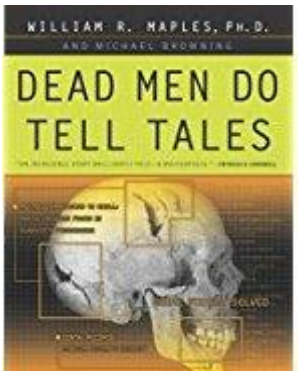

Svante Pääbo
Neanderthal Man
In Search of Lost Genomes

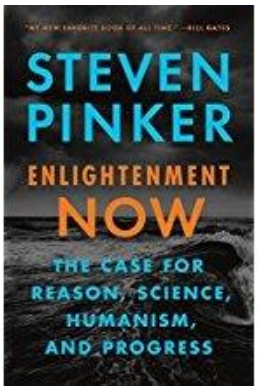
How to Change Your Mind
What the New Science of Psychedelics Teaches Us About Consciousness, Dying, Addiction, Depression, and Transcendence
Michael Pollan

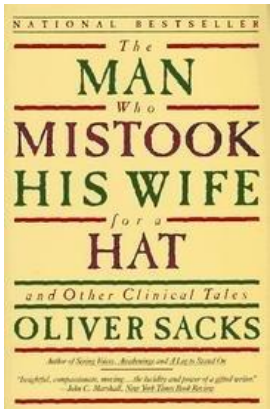

THE BOOK OF EGGS


THE Eleme
A Visual Exploration of Every Known
THEODORE GRAY


NEW YORK TIMES BESTSELLER
the Soul of an Octopus
A Surprising Exploration into the Wonder of Consciousness
Sy Montgomery


WILLIAM R. MAPLES, PH.D.
AND MICHAEL BROMWICH
DEAD MEN DO TELL TALES


STEVEN PINKER
ENLIGHTENMENT NOW
THE CASE FOR REASON, SCIENCE, HUMANISM, AND PROGRESS


NATIONAL BESTSELLER
The MAN Who MISTOOK HIS WIFE for a HAT
and Other Clinical Tales
OLIVER SACKS

Member Classifieds

Posted by Gregg Roman

The Department of Biology at the University of Mississippi invites applications for a **tenure-track Assistant Professor position in Behavioral Neuroscience**. Candidates integrating multiple approaches and levels of analysis that address behavioral mechanisms in either vertebrate or invertebrate systems are especially encouraged to apply.

The successful candidate will be expected to develop an externally-funded research program, train graduate students, and teach courses in physiology and neuroscience and their area of expertise. We have a vibrant broad-based biology department that consists of 21 tenure-track and 15 instructional faculty members, educates over 1000 undergraduate biology majors and 45 graduate students (Ph.D. and M.S.), and serves as the home of the interdisciplinary neuroscience minor. We seek candidates who will complement and extend our strengths in neuroscience and behavior, symbiosis and species interactions, cell and molecular biology, or biodiversity and conservation biology (http://biology.olemiss.edu). The Biology Department recognizes the importance of building a diverse faculty and thus welcomes applicants from groups underrepresented in science.

The University of Mississippi is a Carnegie-Designated R1 Highest Research University located in Oxford, Mississippi, a beautiful college town well-known for its outstanding educational and cultural opportunities. The University of Mississippi has been repeatedly recognized by the Chronicle of Higher Education as a “Great College to Work or”. In 2017, the University of Mississippi initiated the Brain Wellness Constellation, which is designed to bring together a wide range of faculty from across campus to address some of the most difficult and complex problems in neuroscience. The successful candidate may also interact with cross-disciplinary researchers to solve key, grand challenges in Big Data, Community Wellbeing, and Disaster Resilience Constellations.

To apply, please visit our Online Employment Service at careers.olemiss.edu. Applications should include: (1) cover letter outlining interest and suitability for the position, (2) curriculum vitae, (3) a statement of research interests and future plans (3 pages or less) that includes an explicit description of how the applicant’s research plans will complement or build upon existing departmental research areas, (4) a brief (two pages or less) teaching and mentoring statement, which includes experience, approach, interests, and a list of potential graduate and undergraduate courses, (5) a diversity statement addressing approaches to promoting inclusivity in research and training, (6) names and contact information for at least three references, and (7) reprints of up to three recent publications or submitted papers. Items 1-6 should be prepared as a single pdf and item 7 as a second pdf file. Review of applications will begin November 30 and continue until the position is filled. The University of Mississippi is an

EOE/AA/Minorities/Females/Vet/Disability/Sexual Orientation/Gender Identity/Title VI/Title VII/Title IX/504/ADA/ADEA employer. The University of Mississippi provides equal opportunity in any employment practice, education program, or education activity to all qualified persons. The University complies with all applicable laws regarding equal opportunity and affirmative action and does not unlawfully discriminate against any employee or applicant for employment based upon race, color, gender, sex, sexual orientation, gender identity or expression, religion, national origin, age, disability, veteran status, or genetic information.

Posted by Leo Schalkwyk

ADS Fellow, University of Essex
The Institute for Analytics and Data Science (IADS) seeks to appoint a full-time Postdoctoral Research Fellow to support the Institute's work in analytics, data science and Big Data with the School of Biological Sciences (SBS) and on successful completion of the post and probation period, the Research Fellow will take on a permanent Lecturer post in the SBS.

Particular research areas of interest include but are not limited to:

· population genetics including NGS;

· epigenomics;

· causal inference;

· data integration/genome annotation;

The successful candidate will have an excellent publications record and will be able to demonstrate evidence of potential to develop an internationally leading profile in the field.

Informal enquiries welcome: Leo Schalkwyk lschal@essex.ac.uk

Posted by Paul Katz

Assistant / Associate Professor Translational Neuroscience: Animal Models of Neurological Disease Department of Biology University of Massachusetts Amherst The Department of Biology at the University of Massachusetts, Amherst invites applications for a tenure track position at the rank of Assistant or Associate Professor. The successful candidate will also be a part of the Institute for Applied Life

Sciences (see IALS), which has the goals of developing translational research programs, fostering interactions with industry, and training a translational life sciences workforce. New faculty members will be able to take full advantage of the substantial investments in campus infrastructure and core facilities made by IALS (see IALS Cores for details). We are seeking a new faculty member who will establish a research program with high translational potential that utilizes animal models or human-derived cells to develop mechanistic insights and therapeutic approaches into neurological disorders. Areas of interest include, but are not limited to, neurodegenerative diseases such as Alzheimer's or Parkinson's Diseases and recovery from acute injuries such as traumatic brain injury or stroke. We are particularly interested in candidates whose research programs augment our existing strengths in neuroscience (see UMass Initiative on Neurosciences (IONS), and extends this expertise directly into health-related areas (IALS, Models to Medicine Center). The successful candidate will have a Ph.D. and postdoctoral experience in neuroscience or related fields. The candidate must have outstanding potential to build a vibrant translational research program and the ability to teach at both the undergraduate and graduate levels. Review of applications will begin on November 5, 2018 and will continue until the position is filled. Online applications should include a cover letter, CV, research plan, teaching statement, diversity statement and the contact information for three references. Apply on line at: http://careers.umass.edu/amherst/en-us/job/495642/assistantassociate-professor-tenure-track The University of Massachusetts Amherst (http://www.umass.edu), the flagship campus of the University of Massachusetts system, is a nationally ranked public research university and home to over 22,000 undergraduate and 6,000 graduate students. The 1,430 acre campus is located in the scenic Pioneer valley of western Massachusetts, 90 miles from Boston and 175 miles from New York City. UMass Amherst, along with Amherst, Hampshire, Mount Holyoke and Smith Colleges, is a member of the Five College Consortium and the Academic Career network. The university is committed to active recruitment of a diverse faculty and student body. The University of Massachusetts Amherst is an Affirmative Action/Equal Opportunity Employer of women, minorities, protected veterans, and individuals with disabilities and encourages applications from these and other protected group members. Because broad diversity is essential to an inclusive climate and critical to the University’s goals of achieving excellence in all areas, we will holistically assess the many qualifications of each applicant and favorably consider an individual’s record working with students and colleagues with broadly diverse perspectives, experiences, and backgrounds in educational, research or other work activities. We will also favorably consider experience overcoming or helping others overcome barriers to an academic degree and career.

Posted by Paul Katz

Senior Faculty Position Behavioral Neuroscience Department of Psychological and Brain Sciences University of Massachusetts Amherst The Department of Psychological and Brain Sciences at the University of Massachusetts Amherst (http://www.umass.edu/pbs) invites applications for a tenure-track faculty position at the level of Associate or Full Professor in Behavioral Neuroscience starting Fall 2019. Applicants must have a Ph.D. in Neuroscience or a related discipline, an excellent record of leadership, a productive externally-funded research program, and a strong commitment to undergraduate and graduate education. The successful candidate will be part of a highly interactive group of neuroscientists working with rodent, avian, and primate models, as well as other groups within the Department and across campus. Ideal candidates will have a strong program in one or more of the following areas: neuroendocrinology, neurodevelopment, stress, learning and memory, neuroethology, and/or neuroimmunology. Innovative research programs that employ advanced techniques in genetics, molecular/cellular biology, imaging, and/or electrophysiology are particularly desired. Candidates should expect to become an active member of the Graduate Program in Neuroscience and Behavior (http://gpls.cns.umass.edu/nsb) which includes faculty members from the Departments of Psychological and Brain Sciences, Biology, Biochemistry and Molecular Biology, Veterinary and Animal Sciences, Engineering, Computer Science, and other departments, as well as colleagues in the regional Five-College community, and to contribute to the College of Natural Sciences commitment to diversity, equity & inclusion http://www.cns.umass.edu/diversity-equity-inclusion. Applications should include a cover letter, curriculum vitae, statement of research interests and teaching philosophy, a list of five sample publications, a statement of contributions to diversity, equity and inclusion, and the names and contact information of three references. Please submit materials online to: http://careers.massachusetts.edu/cw/enus/job/495447?lApplicationSubSourceID=11182 Review of applications will begin on November 15, 2018, and continue until the position is filled. The Amherst Campus of the University of Massachusetts is part of the Five-Colleges Consortium in the beautiful Pioneer Valley of Western Massachusetts. The University and town offer rich social and cultural life, and diverse recreational amenities. We are 2 hours from Boston and 3 hours from New York City by car. UMass Amherst is committed to a policy of equal opportunity without regard to race, color, religion, gender, gender identity or expression, age, sexual orientation, national origin, ancestry, disability, military status, or genetic information in employment, admission to and participation in academic programs, activities, and services, and the selection of vendors who provide services or products to the University. To fulfill that policy, UMass Amherst is further committed to a program of affirmative action to eliminate or mitigate artificial barriers and to increase opportunities for the recruitment and advancement of qualified minorities, women, persons with disabilities, and covered veterans. It is the policy of the UMass Amherst to comply with the applicable federal and state statutes, rules, and regulations concerning equal opportunity and affirmative action.

Posted by Laura Saba and Richard Radcliffe

University of Colorado Anschutz Medical Campus
Skaggs School of Pharmacy and Pharmaceutical Sciences
Genomics/Bioinformatics
Assistant, Associate, Full Professor (Tenure-Track)

The Department of Pharmaceutical Sciences at the Skaggs School of Pharmacy and Pharmaceutical Sciences at the University of Colorado, Anschutz Medical Campus seeks an individual focusing on basic science and/or translational research in the general area of genomics/bioinformatics/statistical genetics. The interests of the applicants will complement those of our current group of successful and well-funded faculty within the Toxicology and Pharmaceutical Science programs, including quantitative genetics, systems biology, transcriptomics, cancer biology and pharmacology, nanotoxicology, neurodegeneration, and xenobiotic metabolism. Preferred areas of interest include, but are not limited to systems genetics, translational genetics, biomarker discovery or trans-omics integration

The successful candidate will have a Ph.D. in a genomics-related area, have an established record of excellence in teaching, publication activity and extramural grant support, and will be well versed in bioinformatics and statistical approaches, including advanced computer programming skills. The successful candidate will be expected to initiate a research program incorporating basic and/or translational components and teach at both the Pharm.D. and Ph.D. levels. Faculty rank and salary will be dependent upon qualifications and experience.

Applicants, **please apply electronically at www.cu.edu/cu-careers to job posting number 14597.** Applicants must submit electronically a letter of interest, brief research plan, curriculum vitae and the names of three references with regular and e-mail addresses, phone and fax numbers. Any questions regarding the application process can be directed to Jay Rodenburg, Director of Personnel at jay.rodenburg@ucdenver.edu or at 303/724-2648. Application screening will continue until the position is filled.

***The University of Colorado is committed to diversity and equality in education and employment*.**

Posted by Robert R. H. Anholt

Clemson University
Cluster Hire in Human Genetics

Clemson University invites applications for five tenure-track Assistant Professor positions at the new Center for Human Genetics, with an expected start date of August 2019.

The positions are broadly defined and will include individuals who use statistical, computational, bioinformatic, genetic, genomic and comparative evolutionary approaches to explore the genetic and environmental causes of human health and disease. Areas of research may include – but are not limited to – genomic prediction, the role of gene-gene and gene-environment interactions in human genetics and methods to detect such interactions, *de novo* regulatory network construction, integration of data across many levels of biological organization, explicitly modeling variants of unknown significance from clinical sequencing in model systems, including cell lines, and expanding human genomic studies to include whole genome sequencing and discovery of regulatory variants affecting health and disease.

The successful applicants will be part of a collaborative and interdisciplinary environment that includes the research, diagnostic and clinical geneticists at the Greenwood Genetic Center, the genetics, genomics, statistics and bioinformatics faculty at Clemson University, the USC School of Medicine in Greenville and the Greenville Health System. The home department will be determined by the fit of the applicant's research interests with the mission of one of the departments in the College of Science (www.clemson.edu/science).

Successful candidates must hold a doctoral degree and have postdoctoral experience. Competitive candidates will demonstrate an ability to develop a vigorous and independent, externally funded and nationally recognized research program; demonstrate teaching excellence and a commitment to diversity inclusion; and participate in relevant undergraduate and graduate education programs.

Applicants should submit the following items via Interfolio at https://apply.interfolio.com/55538: (1) cover letter; (2) Curriculum Vitae; (3) statement of research interests and future plans; (4) statement of teaching interests and experience; (5) statement describing past experience and/or future plans to promote diversity and inclusion; and (6) up to three reprints in one PDF. Applicants should also arrange, through Interfolio, for three confidential letters of recommendation to be submitted.

Inquiries should be directed to Dr. Trudy Mackay (tmackay@clemson.edu).

For full consideration, applications should be submitted by November 5, 2018. Review will continue until the positions are filled.

Clemson University is an AA/EEO employer and does not discriminate against any person or group on the basis of age, color, disability, gender, pregnancy, national origin, race, religion, sexual orientation, veteran status or genetic information. Clemson University is building a culturally diverse faculty and staff committed to working in a multicultural environment and encourages applications from minorities and women.

Posted by Robert R. H. Anholt

Postdoctoral Positions

The laboratories of Trudy Mackay and Robert Anholt at the new Clemson University Center for Human Genetics invite applications for a postdoctoral fellow to support a newly awarded NIH grant.

A major challenge of modern biology is to determine how DNA sequence variants give rise to phenotypic variation for complex organismal traits through modulation of regulatory gene networks. This research project seeks to reverse engineer natural genetic variation in Drosophila using CRISPR/Cas9 precise allelic replacement to functionally validate genetic associations of common and rare molecular variants and long non-coding RNAs with organismal phenotypes and transcriptional networks.

The successful applicant will have expertise in CRISPR/Cas9 gene editing and Drosophila genetics. Applicants should have a strong record of productivity, excellent oral and written communication skills, and the ability to perform independent as well as collaborative research. A Ph.D. in genetics or related field is required.

Applications must include a cover letter explaining the qualifications for this position, curriculum vitae with list of publications, and the names of three references. The position is available immediately.

Applications should be submitted electronically at: https://apply.interfolio.com/53001

For information contact Dr. Trudy Mackay (tmackay@clemson.edu).

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