Ian B Gibson

CONTACT INFORMATION

197 Cooper Run Road
Bluffton, South Carolina 29909

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igibson@uscb.edu

CURRENT POSITION

Full-time Faculty, **University of South Carolina Beaufort**
Lab Safety Officer, Lab Manager and Instructor, August 2013-Present

EDUCATION

Baylor College of Medicine-Human Genome Sequencing Center, TX
August 2009 – June 2013

M.S. in Molecular & Human Genetics
Thesis: High-Throughput Genetics and Genomics Elucidate Molecular Mechanisms and Disease

Publications:

Gibson, Jiang, Yu: The 1000 genomes project: paving the way for personalized genomic medicine (*Personalized Medicine*, 2013)

Edelstein, Luna, **Gibson**, Bray, *et al*.: Human genome-wide association and mouse knockout approaches identify platelet supervillin as an inhibitor of thrombus formation under shear stress (*Circulation*, 2012)

Lin, **Gibson**, Moore, Thornton *et al*.: Global chromosomal structural instability in a subpopulation of starving *Escherichia coli* cells (*PLoS Genetics*, 2011)

Szafranski, Schaaf, Person, **Gibson** *et al.*: Structures and molecular mechanisms for common 15q13.3 microduplications involving *CHRNA7*: Benign or pathological? (*Human Mutation*, 2010)

University of South Carolina Beaufort, SC July, 2006 – May 2009

GPA: 3.98

Classes taken: Algebra, Trigonometry, Calculus I & II, Statistics, General Biology I & II, Ecology & Evolution, Genetics, Cell & Molecular Biology, Development, Neurobiology, Invertebrate Zoology, Physiology, General Chemistry I & II, Organic Chemistry I & II, General Physics I & II

University of Hull, United Kingdom September, 1996 - June 1999
B.A. (Honours) in Philosophy
Upper Second Class Honours
Dissertation topic: philosophy of mind and the problems of consciousness

HONOURS AND AWARDS

Burroughs Wellcome Fund - The Houston Laboratory and Population Science Training Program in Gene-Environment Interaction – Fellowship, 2010-2012
President's Honor Roll, USCB: Fall 2006; Spring 2007; Fall 2007; Spring 2008
USCB Award for Excellence in Biology, 2008-2009
CRC Press Chemistry Achievement Award, 2007
USCB Award for Excellence in Mathematics and Computer Science, 2006-2007

RESEARCH EXPERIENCE

Graduate Research
Analysis of point mutations responsible for the genomic disorder Smith-Magenis Syndrome.
Long-range PCR facilitates characterization of effects of CHRNA7 microduplications.
Stressing *E. coli* subpopulations leads to genome-wide structural rearrangements.
Genome-wide association study and statistical analysis identifies major protein responsible for prevention of arterial thrombus formation in mouse and human.
Software development to produce exome analysis suite for Ion Torrent sequencing platform.
Analysis of 1000 Genomes data and its impact on personalized medicine.