

CURRICULUM VITAE

Erich D. Jarvis
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EDUCATION

1979-1983 Scholarships to Geoffrey Ballet and Alvin Ailey Dance Schools, NY
1979-1983 Dance Major, High School of the Performing Arts, NY
1983-1988 B.A., Double: Biology & Mathematics. Minor: Chemistry. Hunter College, NY
1988-1995 Ph.D., Molecular Neurobiology & Animal Behavior, The Rockefeller University, NY
1995-1998 Postdoc. Molecular Neurobiology & Animal Behavior, The Rockefeller University, NY

RESEARCH & PROFESSIONAL POSITIONS

1984-1988 Undergraduate: Molecular biology of protein synthesis genes in bacteria with Dr. Rivka Rudner Hunter College, NY
1988-1995 Graduate: Molecular behavioral mechanisms of song-associative learning in songbirds with Dr. Fernando Nottebohm. The Rockefeller University, NY
1995-1998 Postdoc: Molecular biology of learned vocal communication in songbirds with Dr. Fernando Nottebohm. The Rockefeller University, NY
1998-2002 Assistant Professor, Adjunct: The Rockefeller University, NY
1998-2005 Assistant Professor, Department of Neurobiology, Duke University Medical Center (DUMC), NC
1999-2005 Assistant Professor, Fellow: Center for Cognitive Neuroscience, Duke University, NC
2000-2005 Assistant Professor, Center for Bioinformatics & Computational Biology, Duke University
2000-2005 Assistant Professor, Allied Faculty: Psychological & Brain Sciences, Duke University, NC
2001-2005 Assistant Professor, Faculty: Development Biology Program, DUMC, NC
2005-present Associate Professor, Tenure: Neurobiology & departments above, Duke University, NC
2008-present Investigator, Howard Hughes Medical Institute (HHMI) Successful renewal 2015.

TEACHING & RELATED COMMITTEES

1992-1998 Trained inner-city high school students of under-represented backgrounds to gain laboratory research experience, Science Outreach Program of NY
1998-present Trained high school, undergrad & graduate students in neuroscience research, DUMC, NC
1999-2008 Medical student core neuroscience course, DUMC, NC
2000-present Graduate Student Steering Committee, Department of Neurobiology, DUMC, NC
2000-present Graduate Student Admissions Committee, Department of Neurobiology, DUMC, NC
2000-2003 Cognitive neuroscience graduate course, Duke University, NC
2001-2002 Graduate core neuroanatomy course, DUMC, NC
2001-2005 Undergraduate neuroscience course, DUMC, NC
2001 Graduate neuroethology course, DUMC, NC
2006-2008 Graduate neuroscience lecture training course, DUMC, NC
2006-2008 Graduate student core neuroscience course, DUMC, NC
2008-2013 Director, Concepts in Neuroscience: Cellular & Molecular Neurobiology, DUMC, NC
2013 Vocal learning course, Department of Neurobiology, DUMC, NC
2013 Synaptic plasticity course, Department of Neurobiology, DUMC, NC
2014-present Duke Basic Sciences Faculty Steering Committee
2014-present Duke Medical School Deans Advisory Council on Underrepresented Minorities Faculty.

AWARDS & HONORS

1984 NIH-Minority Biomedical Research Support (MBRS) Traineeship
1986 First Place Award for Excellence in Biomedical Research, NIH-MBRS Annual Symposium

- 1986 NIGMS-Minority Access to Research Careers (MARC) Honors Undergraduate Fellowship
1988 MARC-NIGMS Pre-Doctoral National Research Service Award
1988 FORD Foundation Pre-Doctoral Fellowship
1995 Society for Neuroscience Travel Fellowship for Under-Represented Scientists
1995 NIMH Dissertation Grant
1995 NIMH Neuroscience Postdoctoral Training Grant
1995 Rockefeller University Kluge Postdoctoral Fellowship
2000 George H. Hitching's Young Investigator Award, NC Triangle Foundation, one person/year
2000 Esther & Joseph Klingenstein Award in Neuroscience
2000 Whitehall Foundation Award in Neuroscience, 2nd highest score
2000 David and Lucille Packard Foundation Award
2000 Hall of Fame: Hunter College Search for Education, Elevation & Knowledge (SEEK), NY
2001 Duke University Provost Bioinformatic Award
2002 Duke University Provost Computational Biology Award
2002 Hall of Fame: Alumni Association of Hunter College
2002 Human Frontiers in Science Program Young Investigators Award
2002 NSF Alan T. Waterman Award. NSF's highest award for young investigators given annually to one scientist or engineer who under the age of 35 made a significant discovery/impact in science. Awarded for molecular approach and findings to map brain areas involved in behavior.
2002 Wall of Fame: Duke University Medical Center
2003 The 2003 Distinguished Alumni Award of the City University of New York
2004 Intranet Linguists of the Year for 2004
2005 Dominion Award: Strong Men and Women of Excellence: African American Leaders. Prior awardees include Arthur Ash, Maya Angelou, Oprah Winfrey, and Michael Jordan.
2005 American Philosophical Society Award
2005 NIH Director's Pioneer Award. Given annually to top ~1.5% of applicants.
2005 NOVA Science Now documentary of Dr. Jarvis and his research.
2005 National Science Foundation top 10 science stories of 2005; avian/vertebrate brain evolution.
2006 Discover magazine top 100 science discoveries of 2005; avian brain nomenclature listed at #51.
2006 Diverse magazine's top 10 emerging scholars of 2006.
2006 Popular Science Magazine's Brilliant 10 of 2006 under the age of 45
2007 Mental Floss Magazine's 10 Trail blazing scientist of 2007
2007 Creator Synectics' top 100 geniuses
2008 HHMI Investigator Award
2009 Ruth & A Morris Williams Prize. Duke University Med. Ctr's. highest prize under the age of 45
2010 History Makers Documentary: African American Leaders in Science. Chicago, IL
2010 North Western University "Distinguished Role Model in Science" award. Evanston, IL
2013 Futurish magazine named Jarvis as one of 2014's Citizens of the Next Century (<http://www.future-ish.com/2010/12/next-century-citizens.html>)
2014 Co-recipient of Summit Award from the American Society for Association Executives (ASAE) with Society for Neuroscience's Neuroscience Scholars Program, for URM.
2015 Science magazine working life article on Jarvis. **Science by any means necessary.** (2015) *Science* 347 (6222):686. <http://www.sciencemag.org/content/347/6222/686.short>
2015 Science magazine careers article on Jarvis. **Following the birdsong of Science.** (2015) http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2015_01_19/caredit.a1500015

NAMED, HONORARY, & KEYNOTE LECTURES

- 1999 Speaker: International Emperor's Award in Biology, Nagoya, Japan
2000 Plenary Speaker: Research Center for Minority Institutions (RCMI)-Symposium, Puerto Rico
2001 Distinguished Speaker: 10th Annual Puerto Rico Neuroscience Conference, Puerto Rico
2001 Plenary Lecturer: Atlantic Symposium on Computational Biology, Genome Systems & Tech, NC
2002 Baptista Memorial Symposium: International Ornithology Conference, Beijing, China
2002 Lecture and Discussant: Gordon Research Conference in Neuroethology, Oxford, UK
2002 Leaders in Scientific Discovery: Conversations with two nobel laureates (Cech & Gilman) and a Waterman awardee (Jarvis). ABRCMS 40th NIGMS Anniversary Conference, New Orleans, LA
2002 Lecturer: The National Academy of Science's US-Japan meeting, Irvine, CA
2003 Topical Lecturer: American Society for the Advancement of Science (AAAS) Meeting, Denver

- 2003 Keynote Speaker: National Science Foundation, African American History Month Series, MD
2003 Keynote Speaker: Howard University Graduate School, Washington, DC
2003 Keynote Speaker: Society for Advancement of Chicanos & Native Americans, Albuquerque, NM
2004 The ISIS 2004 Keynote Inspirational Speaker: University of North Carolina, Chapel Hill, NC
2004 The 2004 Howard Hughes Professor's Lecture: Columbia University, New York, NY
2004 Keynote Speaker: NC Health Careers Access Program, Greensboro, NC
2005 The 2005 Chancellor's Scholars Lecturer: Fayetteville University, NC
2005 Keynote Speaker: Education for Sustainable Development Conference, Yale University, CT
2005 Keynote Speaker: NIMH intramural annual conference, Gettysburg, VA.
2005 Keynote Speaker: Society of Neuroethology Congress, Budapest, Hungary.
2005 Langford Lecture Award: Duke University's outstanding research for tenure promotion.
2005 Keynote Speaker: RCMI 20th Anniversary Symposium, City College, NY
2006 Keynote Speaker: HBCU-UP National Research Conference, Baltimore, MD
2006 Keynote Speaker: National Institutes of Aging, Black History Month Lecturer, MD
2006 NIMH Director's Lecturer, Bethesda, MD
2006 NIDCD Council Lecturer, Bethesda, MD
2006 24th IOC Plenary Lecturer, Hamburg, Germany
2006 Distinguished Lecturer: NC Central University, Durham, NC
2006 The 2006 James Holland Memorial Lecturer, Indiana University, Bloomington, IN
2006 Symposium Speaker: American Society for Cell Biology
2007 Keynote Speaker: 2007 NEURON Conference, at Simmons College, MA
2007 Keynote Speaker: 2007 Beta Kappa Chi Honor Society /National Institute of Science conference
2007 The 2007 Darwin Day Lecturer: Virginia Commonwealth University, Richmond, VA
2007 BioX Lecturer: Stanford University, Stanford, CA
2007 Honored Guest Speaker: Adventures of the Mind youth conference, Morehouse University, GA
2007 Public Symposium Speaker: Conference on Birdsong, Speech, & Language, Utrecht, Netherlands
2007 Keynote Speaker: University of Colorado HSC, Annual Neuroscience Retreat, Keystone, CO.
2007 Keynote Speaker: National Association of Biology Teachers, Atlanta, GA
2007 Symposium Speaker: International Seminar on Language Evolution, St. Andrews, UK
2008 The 2008 Dodgen Lecturer: Mississippi Academy of Sciences, Olive Branch, MS
2008 Keynote Speaker: Biology Leadership Conference, Isle of Palms, SC
2008 Keynote Speaker: South East Nerve Net Conference, Atlanta, GA
2008 Keynote Speaker: NIGMS Institutional Research & Academic Career Development Awards Conference, UNC Chapel Hill, NC
2008 The 2008 Martinez-Townsel Endowed Lecturer, MBL, Cold Spring Harbor, MA
2008 Friday Evening Lecturer, MBL, Cold Spring Harbor, MA
2008 Presidential Symp Lecturer: Society for Behavioral Neuroendocrinology, Groningen Netherlands
2008 Plenary Lecturer: 11th RCMI Symposium on Health Disparities, Honolulu, Hawaii
2009 Keynote Lecturer: Annual Neonatal-Perinatal Research Conference, Duke University, NC
2009 National Academy Science Evolution of Medicine Lecturer, Celebrating Darwin's 200th Birthday
2009 New Scientist's Magazine Keynote: 1st NYC Minority Graduate Student Network conference
2009 Keynote Speaker: HHMI summer EXROP conference, Maryland
2009 200th Birthday Celebration Lecture. Darwin's Evolution. Stockholm
2009 Keynote Speaker: American Ornithology Union Conference, Penn State
2009 Barack Distinguished Lecturer: University of Vermont
2009 Society for Neuroscience: Invited symposium lecturer, Darwin and Brain Evolution, Chicago
2010 1st USA Science and Engineering Festival, Meet the Scientist, Washington, DC
2011 Roche 454 Sponsored Speaker. Plant and Animal Genome Meeting, San Diego, CA
2011 Morris College's, Science in Action Week, University-Wide Keynote Speaker, SC.
2011 The 2011 Karlovitz Memorial Lecturer. Georgia Tech, GA.
2011 The 2011 Juanita Greer White Memorial Lecturer. University Nevada, LA
2011 The 2011 Awardee, Duke University, NC
2011 The 2011 Schmidt-Nielson Memorial Lecture, Duke University, NC
2011 Keynote Speaker, North Carolina High School Science Festival, High School of Science and Math, Durham, NC
2011 Keynote Speaker: Annual Baylor Graduate School of Biomedicine Symposium, Houston, TX
2012 The 2012 Isabelle Sprague Lecturer. Mt Holyoke College, MA.
2012 NIH Director's Wednesday Afternoon Lecture Series

- 2012 Keynote Lecturer, Pacific Rim Brain and Evolution Science Conference, Keio University, Japan
- 2012 Keynote Lecturer, Avian Systems Biology Conference, Nagoya Japan
- 2013 Keynote Lecturer, Morehouse School of Medicine, Curtis L. Parker Lecturer, GA.
- 2013 Symposium Speaker, AAAS meeting, Language Organ, Boston, MA.
- 2013 Keynote Speaker, University Maryland Baltimore County, Graduate Student Symposium, MD.
- 2014 Distinguished lecturer at the Networks in the Nervous System Conference, University of Mexico, Queretaro National Autonomous
- 2014 Distinguished lecturer, Nifty Fifty Event, Washington DC
- 2014 Commencement Speaker, University of Texas San Antonio's Medical Center graduated student graduation
- 2014 Keynote speaker, Ultrasonic Communication in Rodents Meeting, Tokyo, Japan
- 2014 Distinguished lecturer, 126th International Ornithological Congress, Tokyo, Japan
- 2014 Brain & Behavior Distinguished Lecture Series, Georgia State University.

MEMBERSHIPS, ADVISORY PANELS, EDITORIAL BOARDS, & CONSULTING

- 1988-present Member, Society for Neuroscience
- 1998-present Member, J.B. Johnston Neuroscience Organization
- 1999-2006 Organizer, Avian Brain Nomenclature Consortium that changed the 100-year old outdated understanding of the avian and thus vertebrate brain evolution
- 1999-2002 Council Member, Duke University President's Council on Black Affairs, NC
- 2001-2005 Founding Member, Black Collective at Duke (BCD), Duke University, NC
- 2003-present Member, Society for Advancement of Chicanos & Native Americans (SACNAS)
- 2004-present International Society for Neuroethology
- 2004-2006 Invited Advisor, NSF Task Group for Enhancing Support for Transformative Research.
- 2005-2006 Elected Member, Duke University Medical Center Basic Sciences Faculty Steering Committee
- 2005-present Committee on Diversity in Neuroscience (C-DIN), The Society for Neuroscience. Renamed Diversity in Neuroscience Subcommittee (DINS) in 2009.
- 2006, 2008 Invited Panelist, NIH Director's Pioneer Award Reviewer
- 2007 Invited Panelist, NIH Director's New Innovator Award Reviewer
- 2007 Invited Advisor, NIH Fostering Innovation Workshop.
- 2007-2008 Invited, Advisory Committee to the NIH Director (ACD; Elias Zerhouni): Subcommittee on Peer Review; Reviewed, developed and recommended new mechanisms for funding more innovative and transformative research, and implemented by NIH beginning 2009.
- 2008-present Nominated member, The Dana Alliance for Brain Initiatives
- 2008-present Director and PI: Neuroscience Scholars Program, The Society for Neuroscience
- 2009-present Duke Center for Proteomics Board
- 2011-2012 NIMH National Advisory Mental Health Council, ad-hoc.
- 2010-present Genome 10K co-organizer (bird chair).
- 2013-present External Advisory Committee for Science, Hunter College, NY
- 2013-present ENSEMBL database Science Advisory Board
- 2013-present Editorial board, the Journal of Comparative Neurobiology
- 2013-present Editorial board, Neuroscience Research
- 2013 NSF workshop on Obama Brain Mapping Initiative
- 2013-present Co-coordinator and co-founder of B10K project to sequence all bird species genomes.
- 2014-2015 Distinguished Editor, Editorial Review Board, NIH Director's New Innovator Award
- 2014-present Advisory board, Society for Neuroscience – Neuroscience Scholars Program.

WEB SITES

- Jarvis Lab: <http://www.jarvislab.net/>
- Avian Brain Hub: <http://avianbrain.org/>
- Songbird Brain Transcriptome Database: <http://songbirdtranscriptome.net>
- Comparative avian genome resource: <http://aviangenomes.org/>
- Avian phylogenomics: <http://avian.genomics.cn/en/index.html>
- B10K bird all 10,000 genomes project: <http://b10k.genomics.cn>

PUBLICATIONS

Peer-reviewed articles: pdfs can be found at <http://www.jarvislab.net/Publications.html>.

1. LaFauci G, Widom RL, Eisner R, **Jarvis ED**, Rudner R. Mapping of rRNA genes with integrable plasmids in *Bacillus subtilis*. (1986) *J. Bacteriol.* 165:204-214.
2. Widom RL, **Jarvis ED**, LaFauci G, Rudner R. Instability of rRNA operons in *Bacillus subtilis*. (1988). *J. Bacteriol.* 170:605-610.
3. **Jarvis ED**, Widom R, LaFauci G, Setoguchi Y, Richter IR, Rudner R. *Chromosomal Organizations of rRNA operons in Bacillus subtilis*. (1988) *Genetics* 120:625-635.
4. **Jarvis ED**, Cheng S, Rudner R. Genetic structure and DNA sequences at junctions involved in the rearrangements of *Bacillus subtilis* strains carrying the *trpE26* mutation. (1990) *Genetics* 126:785-797.
5. Rivas MV, **Jarvis ED**, Rudner R. The structure of the *trpE*, *trpD* and 5' *trpC* genes of *Bacillus pumilus*. (1990) *Gene* 87:71-78.
6. Rudner R, Severestt A, Buchholz S, Studamire B, White AM, **Jarvis ED**. Two tRNA gene clusters associated with ribosomal RNA operons *rrnD* and *rrnE* in *Bacillus subtilis*. (1993) *J. Bacteriol.* 175:503-509.
7. **Jarvis ED**, Mello CV, Nottebohm F. Associative learning and stimulus novelty influence the song-induced expression of an immediate early gene in the canary forebrain. (1995) *Learning & Memory* 2:62-80. *Cited by the journal as one of the top 10 articles of the year.*
8. Chew SJ, Mello CV, Nottebohm F, **Jarvis ED**, Vicario D. Decrements in auditory responses to a repeated conspecific song are long-lasting and require two periods of protein synthesis in the songbird forebrain. (1995) *Proc. Natl. Acad. Sci.* 92:3406-3410.
9. Holzenberger M, **Jarvis ED**, Chong C, Grossman M, Nottebohm F, Scharff C. Selective expression of insulin-like growth factor II in the songbird brain. (1997) *J. Neurosci.* 17:6974-6987.
10. Rivas M, **Jarvis ED**, Morisaki S, Carbonado H, Gottlieb AB, Krueger J. Identification of aberrantly regulated genes in diseased skin using the cDNA differential display technique. (1997) *J. Invest. Derm.* 108:188-194.
11. **Jarvis ED**, Schawbl H, Ribeiro S, Mello CV. Brain gene regulation by territorial singing behavior in freely ranging songbirds. (1997) *Neuroreport* 8:2073-2077.
12. **Jarvis ED**, Nottebohm F. Motor-driven gene expression. (1997) *Proc. Natl. Acad. Sci.* 94:4097-4102.
13. **Jarvis ED**, Scharff C, Grossman M, Ramos JA, Nottebohm F. For whom the bird sings: context-dependent gene expression. (1998) *Neuron* 21:775-788. *News and views in Neuron, Schmidt 2008.*
14. Rudner R, Martsinkevich O, Leung W, **Jarvis ED**. Classification and genetic characterization of pattern forming Bacilli. (1998) *Molec. Microbio.* 27:687-703.
15. Krebs CJ, **Jarvis ED**, Pfaff DW. The 70 kDa heat shock cognate protein (Hsc73) gene is enhanced by ovarian hormones in the ventromedial hypothalamus. (1999) *Proc. Natl. Acad. Sci.* 96:1686-1691.
16. Krebs CJ, **Jarvis ED**, Chan J, Lydon JP, Ogawa S, Pfaff DW. A membrane-associated progesterone-binding protein, 25-Dx, is regulated by progesterone in brain regions involved in female reproductive behaviors. (2000) *Proc. Natl. Acad. Sci.* 97:12816-12821.

17. Li XC, **Jarvis ED**, Alvarez-Bordo B, Lim D, Nottebohm F. A relation between behavior, neurotrophin expression and neuronal survival. (2000) *Proc. Natl. Acad. Sci.* 97:8584-8589.
18. **Jarvis ED**, Mello CV. Molecular mapping of brain areas involved in parrot vocal communication. (2000) *J. Comp. Neurol.* 419:1-31. **Cover photo.**
19. Nehrbass N, **Jarvis ED**, Scharff C, Nottebohm F, Mello CV. Site-specific retinoic acid production in the brain of adult songbirds. (2000) *Neuron* 27:359-370.
20. **Jarvis ED**, Ribeiro S, Vielliard J, DaSilva M, Ventura D, Mello CV. Behaviorally-driven gene expression reveals hummingbird brain song nuclei. (2000) *Nature* 406:628-632. *Featured article in Natural History Magazine and Discovery.com*
21. **Jarvis ED**, Smith VA, Wada K, Rivas MV, McElroy M, Smulders TV, Carnici P, Hayashisaki Y, Dietrich F, Wu X, Yu J, Wang PP, Hartemink AJ, Lin S. A framework for integrating the songbird brain. (2002) *J. Comp. Physiol. A* 188:961-980.
22. Smith VA, **Jarvis ED**, Hartemink AJ. Evaluating functional network inference using simulation of complex biological systems. (2002) *Bioinformatics* 18:216S-224S.
23. Ribeiro S, Mello CV, Velho T, Gardner TJ, **Jarvis ED**, Pavlides C. Induction of hippocampal long-term potentiation during waking leads to increased extrahippocampal zif-268 expression during ensuing rapid-eye-movement sleep. (2002) *J Neurosci.* 22:10914-10923.
24. The FANTOM Consortium & The RIKEN Genome Exploration Research Group Phase II Team. Analysis of the mouse transcriptome based upon functional annotation of 60,770 full length cDNAs. (2002) *Nature* 420:563-573. **Cover photo.**
25. Smith VA, **Jarvis ED**, Hartemink AJ. Influence of network topology and data collection on functional network inference. (2003) *Pac. Symp. Biocomputing* 2003:164-175.
26. Gustincich S, Batalov S, Beisel KW, Bono H, Carninci P, Fletcher CF, Grimmond S, Hirokawa N, **Jarvis ED**, Jegla T, Kawasawa Y, LeMieux J, Miki H, Raviola E, Teasdale RD, Tominaga N, Yagi K, Zimmer A, Hayashizaki Y, Okazaki Y. Analysis of the mouse transcriptome for genes involved in the function of the nervous system. (2003) *Genome Res.* 13:1395-1401.
27. Haesler S, Wada K, Nshdejan A, Morrisey E, Lints EKT, **Jarvis ED***, Scharff C*. FoxP2 expression in avian vocal learners and non-learners. (2004) *J. Neurosci.* 24:3164-3175. *co-corresponding authors. *Highlighted in multiple media outlets, including National Geographic Magazine*
28. Wada K, Sakaguchi H, **Jarvis ED***, Hagiwara M. Differential expression of glutamate receptors in avian neural pathways for learned vocalization. (2004) *J. Comp. Neurol.* 476:44-64 *corresponding author
29. Reiner A, Perkel DJ, Bruce L, Butler AB, Csillag A, Kuenzel W, Medina L, Paxinos G, Shimizu T, Striedter GF, Wild M, Ball GF, Durand S, Guntürkün O, Lee DW, Mello CV, Powers A, White SA, Hough G, Kubikova L, Smulders TV, Wada K, Dugas-Ford J, Husband S, Yamamoto K, Yu J, Siang C, **Jarvis ED**. Revised nomenclature for avian telencephalon and some related brainstem nuclei. (2004) *J. Comp. Neurol.* 473:377-414. *The most cited article of the journal for 2004, and designated among top 1% highly cited papers in their academic field (neuroscience) as of Sep/Oct 2014, controlled for publication year, by Thompson Scientific.*

30. Reiner A, Perkel DJ, Bruce L, Butler AB, Csillag A, Kuenzel W, Medina L, Paxinos G, Shimizu T, Striedter GF, Wild M, Ball GF, Durand S, Güntürkün O, Lee DW, Mello CV, Powers A, White SA, Hough G, Kubikova L, Smulders TV, Wada K, Dugas-Ford J, Husband S, Yamamoto K, Yu J, Siang C, **Jarvis ED**. The Avian Brain Nomenclature Forum: a new century in comparative neuroanatomy. (2004) *J. Comp. Neurol.* 473:E1-E6.
31. Yu J, Smith VA, Wang PP, Hartemink AJ, **Jarvis ED**. Advances to Bayesian network inference for generating causal networks from observational biological data. (2004) *Bioinformatics* 20:3594-3603. *Selected by Thomson Scientific as the article with highest citation rate for "Dynamic Bayesian Networks" as of Spring 2010 and designated among top 1% highly cited papers in their academic field (bioinformatics) as of Sep/Oct 2014, controlled for publication year.*
32. **Jarvis ED**, O Güntürkün, L Bruce, A Csillag, HJ Karten, W Kuenzel, L Medina, G Paxinos, DJ Perkel, T Shimizu, GF Striedter, M Wild, GF Ball, J Dugas-Ford, S Durand, G Hough, S Husband, L Kubikova, DW Lee, CV. Mello, A Powers, C Siang, TV Smulders, K Wada, SA White, K Yamamoto, J Yu, A Reiner, AB Butler. Avian Brain Nomenclature Consortium. Avian brains and a new understanding of vertebrate brain evolution. (2005) *Nature Rev Neurosci.* 6:151-159. *The 2nd most cited article of its issue. Highlighted as one of the top 10 projects funded by NSF in 2005, in top 100 (#51) science stories by Discover Magazine, and in multiple media outlets, including NY Times. Designated among top 1% highly cited papers in their academic field (neuroscience) as of Sep/Oct 2014, controlled for publication year, by Thompson Scientific.*
33. Mouritsen H, Feenders G, Liedvogel M, Wada K, **Jarvis ED**. A night vision brain area in migratory songbirds. (2005) *Proc. Natl. Acad. Sci.* 102:8339-8344. *Highlighted by multiple science broadcast media.*
34. Burmeister S, **Jarvis ED**, Fernald R. Rapid behavioral and genomic responses to social opportunity. (2005) *PLoS Biology.* 3:1996-2004.
35. Ferreira ARJ, Smulders TV, Sameshima K, Mello CV, **Jarvis ED**. Vocalizations and associated behaviors of the Sombre hummingbird (Trochilinae) and the Rufous-breasted Hermit (Phaethornithinae). (2006) *Auk.* 123:1129-1148.
36. Sasaki A, Sotnikova TD, Gainetdinov RR, **Jarvis ED**. Social context-dependent singing-regulated dopamine. (2006) *J. Neurosci.* 26:9010-9014. *Highlighted by BBC science broadcast.*
37. Wada K, Howard JT, McConnell P, Lints T, Rivas MV, Whitney O, Horita H, Patterson MA, White SA, Scharff C, Heasler S, Zhao S, Sakaguchi H, Hagiwara M, Shiraki T, Hirozane-Kishikawa T, Skene P, Hayashizaki Y, Carninci P, **Jarvis ED**. A molecular neuroethological approach for identifying and characterizing a cascade of behaviorally regulated genes. (2006) *Proc. Natl. Acad. Sci.* 103:15212-15217. *Highlighted in Science Magazine online, News and Views.*
38. Smith VA, Yu J, Smulders TV, Hartemink AJ, **Jarvis ED**. Computational inference of neural information flow networks. (2006) *PLoS Comp. Biol.* 2:1436-1449. *Highlighted by PLoS Computational Biology as the most downloaded article of its issue when published.*
39. Liedvogel M, Feenders G, Wada K, Troje NF, **Jarvis ED***, Mouritsen H*. Lateralised activation of Cluster N in the brains of migratory songbirds. (2007) *Eur. J. Neurosci.* 25:1166-1173. **co-corresponding authors.*
40. Kubikova L, Turner E, **Jarvis ED**. The pallial-basal ganglia pathway modulates the behaviorally-driven gene expression of the motor pathway. (2007) *Eur. J. Neurosci.* 25:2154-2160.

41. Hara E, Kubikova L, Hessler NA, **Jarvis ED**. Role of the midbrain dopaminergic system in modulation of vocal brain activation by social context. (2007) *Eur. J. Neurosci.* 25:3406-3416. *Highlighted in the faculty of 1000 as a paper to read.*
42. Pinaud P, Osorio C, Alzate O, **Jarvis ED**. Profiling of experience-regulated proteins in the songbird auditory forebrain using quantitative proteomics. (2008) *Eur. J. Neurosci.* 27:1409-1422.
43. Feenders G, Liedvogel M, Rivas MV, Zapka M, Horita H, Hara E, Wada K, Mouritsen H, **Jarvis ED**. Molecular mapping of movement-associated areas in the avian brain: A Motor theory for vocal learning origin. (2008) *PLoS ONE* 3(3): e1768, 1-27. *Highlighted in Scientific American magazine.*
44. Horita H, Wada K, **Jarvis ED**. Early onset of deafening-induced song deterioration and differential requirements of the pallial-basal ganglia vocal pathway. (2008) *Eur. J. Neurosci.* 28:2519-2532. **Cover photo.**
45. Hara E, Kubikova L, Hessler NA, **Jarvis ED**. Assessing visual requirements for social context-dependent activation of the songbird song system (2009) *Proc. R. Soc. B* 276:279-289.
46. Kubikova L, Wada K, **Jarvis ED**. Dopamine receptors in a songbird brain (2010) *J. Comp. Neurol.* 518: 741-769. **Cover photo**
47. Kunstner A, Wolf JBW, Backstrom N, Whitney O, Balakrishnan C, Day L, Edwards SV, Schlinger BA, Wilson RK, **Jarvis ED**, Warren WC, Ellegren H. Comparative genomics based on massive parallel transcriptome sequencing reveals patterns of substitution and selection across 10 bird species. (2010) *Mol. Ecol.* 19:226-276.
48. Warren WC, Clayton DF, Ellegren H, Arnold AP, Hillier LW, Kunstner A, Searle S, White S, Vilella AJ, Fairley S, Heger A, Kong L, Ponting CP, **Jarvis ED**, et al. The genome of a songbird. (2010) *Nature* 464:757-762. *Highlighted in multiple media outlets, including NY Times, Science Times, and NPR.*
49. Horita H, Wada K, Rivas MR, Hara E, **Jarvis ED**. The *duspl* immediate early gene is regulated by natural stimuli predominantly in primary sensory neurons (2010) *J. Comp. Neurol.* 518:2873-2901.
50. Zapka M, Heyers D, Liedvogel M, **Jarvis ED***, Mouritsen H*. Night-time neuronal activation of Cluster N in a day- and night-migrating songbird (2010) *Eur. J. Neurosci.* 32:619-624. *co-corresponding authors.
51. Nabholz B, **Jarvis ED**, Ellegren H. Obtaining mtDNA genome from next-generation transcriptome sequencing: a case study of the basal Passerida (Aves: Passeriformes) phylogeny (2010) *Mol Phylogenetics Evol.* 57:466-470.
52. Robinson GE, Banks JA, Padilla DK, Burggren WW, Cohen CS, Delwiche CF, Funk V, Hoekstra HE, **Jarvis ED**, Johnson L, Martindale MQ, Martinez del Rio C, Medina M, Salt DE, Sinha S, Specht C, Strange K, Strassmann JE, Swalla BJ, Tomanek L. Empowering 21st century biology. (2010) *Bioscience* 60:923-930.
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