JAMES ALAN MURRAY, Ph.D.

303C South Science Building E-mail: James Murray @ CSU East Bay.edu Hayward, CA 94542 voice (510)-885-2367

EDUCATION:

Ph.D., Department of Zoology, University of Washington, Seattle, WA

Concentrations in Physiology, Neurobiology, Behavior, Invertebrate Biology

Bachelor of Science (B.S.) in Biological Sciences with High Honors for research,

Concentration in Neurobiology and Behavior, Cornell University, Ithaca, NY

Professional Appointments:

Associate Professor, Biological Sciences, California State University, East Bay, Hayward, CA

Assistant Professor, Biological Sciences, California State University, East Bay, Hayward, CA

Associate Professor, Graduate Faculty, Department of Biology, University of Central Arkansas, Conway, AR

Visiting Assoc. Prof., Friday Harbor Laboratories, U. of Washington, Friday Harbor, WA

2012 – present
2007 – 2012
2006 – 2007
2018
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007
2019 – 2007

2010, 2012

June 1999

June 1994 -

1999 - 2006

September 1998 -

October 1995 – August 1998

Assistant Professor, Graduate Faculty, Department of Biology, University of Central Arkansas, Conway, AR Visiting Assistant Professor, Colby College, Department of Biology, Waterville, ME

Postdoc/Lecturer, University of California, San Diego, Department of Biology, La Jolla, CA

Postdoctoral fellow, Scripps Institution of Oceanography, La Jolla, CA

Neuroethology (BIO 533A; co-taught with Dr. Shaun Cain, w/ lab)

September 1995

COURSES TAUGHT: (NEW COURSES DEVELOPED ARE UNDERLINED)

<u>-</u>	<u>_</u> /	
Applied Neurobiology (archived course re-designed from 2007)	California State U., Hayward	Spring 2016
Visual Analysis of Cellular Structure (confocal microscopy)	California State U., Hayward	Winter 2014-2017
Level II Nursing Skills III (guest lecture/demo; NURS 3003)	California State U., Hayward	Spring 2012
Human Physiology and Anatomy I (BIOL 2010, 6 units w/ lab)	California State U., Hayward	Fall 2011-16
Principles of Animal Physiology (BIOL 3151, 5 units w/ lab)	California State U., Hayward	Spring 2008-17
Human Physiology and Anatomy II (BIOL 2020, 6 units w/ lab)	California State U., Hayward	Winter 2008, 2011
Animal Biology (BIOL 1403, 5 units w/ lab)	California State U., Hayward	Fall 2010
Mārine Bibl@gyq(B16)c. $$2775$ (i)4 124(0)s9 v (/] lābl)ET Q q 0.24 0 0 0.24206.44	California State U., Hayward	Fall 2009, Spring 2014
Graduate Seminar in Neuroscience (BIOL 6841, 3 units)	California State U., Hayward	Spring 2009, 2010, 2015
Neurobiology (BIOL 4510/6515, 4 units)	California State U., Hayward	Winter 2009 – 2013
Biology Seminar (BIOL 4820; organizer, 1 unit)	California State U., Hayward	Winter & Fall 2009
Animal Senses (BIOL 4513/6513, 4 units)	California State U., Hayward	Fall 2008 – 2017

U. Washington, Seattle

Graduate Seminar in Biology, Skeptical Inquiry (BIOL 6102) Structure and Function I & II (BIOL 2406, 2407, w/ lab)

U. Central Arkansas U. Central Arkansas Spring 2000

- (3) Murray JA, Wyeth RC (2015) Introduction to "Chemicals that Organize Ecology: Towards a Greater Integration of Chemoreception, Neuroscience, Organismal Biology, & Chemical Ecology", a symposium sponsored by the Society for Integrative and Comparative Biology, Integrative And Comparative Biology 55(3):444-446 ID: icv089
- (4) Sevigny J., Kirouac LE, Thomas WK, Ramsdell JS, Lawlor KE, Sharifi O, Grewal SS, Baysdorfer C, Curr K, Naimie AA, Okamoto K, Murray JA, Newcomb JM (2015) The mitochondrial genomes of the nudibranch mollusks, Melibe leonina

(3) Robert Wilt- brain control of active olfaction in sea slugs

- 2016 present
- (4) Abigail Ames- how olfactory organs enhance odor detection in sea slugs (\$355 UW student travel award)
- 2015 present

(52) <u>Jeffry Blackwell</u> – Honors College thesis "Neuronal Responses To Water Flow In The Marine Sug Tritonia diomedea", M.D. 2007

2001 - 2003

Awards: Undergraduate Research Grant for Education (\$3000)

M.D. 2007-University of Arkansas for Medical Sciences



orientation in the nudibranch gastropod *Tritonia diomedea*, Murray JA, <u>Redondo R</u>, <u>Alexander J</u> (Poster) (48) Society for Neuroscience 33rd Annual Meeting [New Orleans, LA; Nov 2003]. Adaptati

- structures associated with rheotaxis, Murray JA, Brown G, and Willows AOD (Poster 191)
- (74) Western Nerve Net [La Jolla, CA; April 1992]. Motor neurons causing turning into water flow, Murray JA and Willows AOD (Talk)
- (75) Society for Neuroscience 21st Annual Meeting [New Orleans, LA; Nov 1991] Orientation to water-flow in *Tritonia*: Brain structures associated with rheotaxis, Murray JA and Willows AOD (Poster 559.5)
- (76) Society for Neuroscience 20th Annual Meeting [St. Louis, MO; Oct 1990]. Orientation to water-flow in *Tritonia*: Neural basis of rheotaxis, Murray JA and Willows AOD (Poster 313.3)
- (77) Society for Neuroscience 18th Annual Meeting [Toronto, Canada; Nov 1988]. Courtship success in the cricket *Gryllus* bimaculatus: Differential contribution of carrier frequency and harmonics in courtship song, Murray JA and Hoy RR (Talk 128.4)

PROFESSIONAL SERVICE:

Reviewer, Council on Ocean Affairs, Science, & Technology, Grant Development Program Ad hoc reviewer (anonymous), for Global Change Biology journal

June 2016

Program Prioritization Steering Committee (as Chair of Committee on Instruction & Curriculum) Grant seeking at CSUEB (New Faculty Orientation, Faculty Development Center) Executive Committee of the Academic Senate

2012 – 2013 2012 Masters degree committee member (not chair- Shouyu Chen, Michael Grunow, Mike Klingler, Bridget Schneider, Samantha Wu, Deanna Beach

U. Arkansas, Department of Biology	January 2001
U. Oklahoma, Department of Zoology	December 2000
Ten Ways to Die in Australia, UCA Biology Club	September 1999
Life is upstream: Physiology of flow sensitivity in a marine snail	
U. Central Arkansas, Department of Biology	February 1999
Pacific Lutheran University, Department of Biology	February 1999
Monmouth College, Department of Biology	February 1999
Neural analysis of orientation to water flow in a marine snail	
Drew University, Department of Biology	April 1998
California State University, San Marcos, Department of Biology	April 1997
Truman State University, Department of Biology	March 1997
Colby College, Department of Biology	December 1996
University of Oregon, Institute of Neuroscience	March 1994
Divine justice, sea slugs, and Greek mythology, Friday Harbor Laboratories	June 1993
Honors and Awards:	
Finalist LICA Research Scholarship & Creative Activity Award (\$500)	AV 2006 - 2007

Finalist, UCA Research, Scholarship, & Creative Activity Award (\$500)

Grass Foundation Fellowship in Neuroscience, Friday Harbor Laboratories

Distinguished Service Key, Alpha Phi Omega

May 1988

High Honors fo01 0 0 4 99.12 12.47998 re W n /Cs1 cs 0 0 0 sc q 0.24 0 0 0.24 533.5606 516.62cting