

PUBLICATIONS 2010 - ENTOMOLOGY/NEMATOTOLOGY FACULTY

Baldwin

Bibbs, C.S., A.C. Hodges, and R.W. Baldwin. 2010. Horned passalus, *Odontotaenius disjunctus* (Illiger) (Insecta: Coleoptera: Passalidae: Passalinae). EDIS article EENY-487. University of Florida, IFAS, College of Agricultural and Life Sciences, Gainesville, FL. 6 pp.

Barfield - None

Bloomquist

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Capinera

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Choate - None

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Dickson - None

Ellis

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Fasulo

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Hodges

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Hoy

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Lawrence - None

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McAuslane - None

McSorley

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Oi - None

Pereira

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Scharf

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Webb

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White - None

Miscellaneous

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GRANTS 2010 - ENTOMOLOGY/NEMATOLOGY FACULTY

Baldwin

\$7,993 - UF/IFAS Extension - Enhancement Grant - iPest - Interactive Mobile Field Guide to Urban Pests - Co-PI (with P. Koehler and R. Pereira)

Barfield - None

Bloomquist

\$297,770 (my share in 2010) - NIAID - Development of vector-specific, resistance-breaking insecticides to reduce malaria transmission - Co-PI (with P. Carlier, PI, Virginia Tech; J. Li, Virginia Tech; and M. Totrov, Molsoft LLC, San Diego, CA) - (from total \$3,557,712; my share \$1,114,101 total)

\$200,000 (my share in 2010) - USDA Cooperative Research Agreement - Discovery and development of new public health pesticides - PI - (from total \$1,000,000)

\$49,750 (for 2010, all spent at Virginia Tech to support technical staff and a Ph.D. student, James Mutunga) - Innovative Vector Control Consortium (the Consortium is underwritten by the Bill and Melinda Gates Foundation), Liverpool, England - Identification of Contact-Toxic Bivalent Carbamates - Co-PI with P. Carlier (Virginia Tech) - (from total \$99,500)

Boucias

\$269,000 - NRI/USDA - A novel viral pathogen for biological control of the housefly - PI

\$75,000 - Specific Cooperative Agreement with ARS - Chemical biology and molecular approaches to pest control - PI

???? - NRI/USDA - Functional genomics of the termite gut transcriptome - Co-PI

\$120,000 - CPBR Genomic Dissection of Cellulose Utilization in Termites - PI

Buss

\$191,700 (2 year total) - USDA/NIFA PMAP - Developing, demonstrating and disseminating cultural control recommendations for chinch bugs - PI (with J. Gillett-Kaufman and L. Trenholm) - (Year 1: \$94,403; Year 2: \$97,297)

\$120,000 (2 year total) - T-Star-C grant - Developing sustainable controls for the suppression of the invasive Caribbean crazy ant (*Paratrechina pubens*) in natural and urban landscapes - PI (with D. Oi and S. Valles) - (Year 1: \$23,345; Year 2: \$40,860)

\$300 (estimated value) - Syngenta - In kind gift: 14 measuring cups, duffle bag, and 3 sets of safety gear (gloves, goggles, plastic bags, and towels)

\$400 (estimated value) - Anderson's Golf Products - In-kind gift: SR-2000 Rotary professional spreader

\$2,500 (estimated value) - Nick Dennis (PCO in Jacksonville) - In-kind gift: Bluebird aerator

\$26,300 (total) - Grant-in-Aid from Arysta Life Science (\$3000), DuPont (\$8000), Scotts (\$6300), Valent (\$9000)

Choate - None

Crow

\$10,469 - United States Golf Association 1 year extension Bermudagrass (*Cynodon* spp.) and seashore paspalum (*Paspalum vaginatum*) cultivar response to the sting nematode (*Belonolaimus longicaudatus*).

\$273,050 – Industry contracts and grants.

Cuda

\$512,379 - USDA, NIFA, RAMP - Sustainable approach for integrated management of fluridone herbicide resistant hydrilla in the U.S. - PI

\$153,000 - Osceola County, FL / US EPA - Osceola County aquatic weed control and information project - Co-PI

\$9,000 and \$18,000 - AERF - Effect of temperature and water quality on the performance and geographic distribution of *Cricotopus lebetis* (Diptera: Chironomidae), an herbivore of *Hydrilla verticillata* in Florida - Co-PI

\$30,000 - FWC - Biological control of wetland-nightshade, *Solanum tampicense* (Solanaceae), in Florida - Co-PI

Daniels

\$12,000 (2 year total) - U.S. Fish and Wildlife Service - Remote surveys of the endangered Miami blue butterfly - PI (received in 2010 but no funds expended)

\$5,000 - FAO Schwarz Foundation - Monarchs, milkweeds and butterfly larvae: An educational brochure for the public - Co-PI

\$494,509 - NSF - Call the wild: Fostering understanding of the nature of science - Co-PI

\$109,331 - National Fish and Wildlife Foundation - Study of abundance and diversity of native bees (FL) - Co-PI

\$86,757 - NSF - Project Butterfly WINGS: Winning Investigative Network for Great Science - Co-PI

\$365,299 - Institute of Museum and Library Services - Imperiled butterfly conservation and management - PI (\$121,340 applied for 2010)

\$40,000 - Florida Wildflower Foundation - Wildlife viewing: Fostering awareness, interest and knowledge about Florida's wildflowers and wildlife - Co-PI

Dickson (Grants-in-Aid)

\$85,800 - DevGen

\$65,400 - Makhteshim-Agan of North America

\$10,000 - Syngenta

\$22,000 - Bayer CropScience

\$103,949 - DuPont

\$12,000 - Divergence

Ellis

\$23,169 - Project *Apis mellifera* Grant - Varroa mite (*Varroa destructor*) control using contemporary RNAi technology - PI

\$10,940 - Wachovia/Wells Fargo - Supporting honey bee research and extension - PI

\$105,000 - Florida Department of Agriculture and Consumer Services Grant - RNAi control of *Varroa destructor* in honey bee colonies - PI

Fasulo - None

Frank

\$18,000 (available at beginning of 2010 approximately, total \$46,762) - TSTAR - Control of Mexican bromeliad weevil - an invasive species (TSTAR)

\$20,000 - Southern IPM - Capstone Grant for Extension - Controlling invasive mole crickets in Florida pastures

\$7,000 - IFAS Extension Program Enhancement Grant

Gillett-Kaufman

\$512,379 - NIFA RAMP - Sustainable approach for integrated management of herbicide resistant hydrilla in the U.S. - Co-PI (with J. Cuda, J. Bradshaw, K. Gioeli, W. Overholt, R. Hix and J. Shearer)

\$193,409 - NIFA PMAP - Developing, demonstrating and disseminating cultural control recommendations for chinch bugs - Co-PI (with E. Buss and L. Trenholm)

\$88,984 - National Association of State Departments of Agriculture (NASDA) - Good neighbor practices and schools - Co-PI (with F. Oi)

\$229,500 - CSREES-Food and Agricultural Sciences National Needs Graduate Fellowship Grant - Graduate Training for Plant and Crop Biosecurity - Co-PI (with N. Leppla and R. McGovern)

Hahn

\$440,000 - NSF - Integrating physiological and genetic mechanisms to understand the evolution of cold tolerance

\$50,000 - IFAS Dean's Innovation Funds - Engineering antioxidants to improve the sterile insect technique, a promising but underused non-pesticidal control technology

Hodges

\$3,000 - UF/IFAS - Exotic species and biosecurity issues, teaching enhancement grant - PI

\$35,000 (my portion from \$44,000) - USDA-NIFA - Multimedia educational efforts to promote enhanced pest detection for small farm audiences - PI

\$91,257 (my portion from \$824,190) - USDA-NIFA - Regional Plant Diagnostic Center Laboratory - Co-PI

\$9,029 (my portion from \$29,942) - USDA-APHIS-PPQ - Identification tool for arthropod pests of citrus - PI

\$7,057 (my portion from \$29,985) - USDA-APHIS-PPQ - Identification tools for pests, diseases, and disorders for cultivated palms - PI

\$18,803 - USDA-APHIS-PPQ - Identification tool for arthropod pests of citrus - PI

\$188,785 (my portion from \$922,936) - USDA-NIFA - Regional Plant Diagnostic Center Laboratory - Co-PI

\$10,993 - LSU AgCenter, USDA-NIFA - Development of an online-interactive train-the-trainer first detector entomology educational program for county agents - PI

Hoy

\$74,800 - USDA-APHIS - Classical biological control of red palm mite - PI

Kaufman

\$36,000 (from 2 year total \$198,162) - NIFA-PMAP - Development and delivery of an innovative, alternative pest management program for the brown dog tick - PI
\$57,735 (from 2 year total \$171,231) - USDA SRIPM - Improving management of the brown dog tick, *Rhipicephalus sanguineus*, in southeastern residential environments - PI
\$3,000 (from 2 year total \$10,625) - W. F. Young, Inc. - Evaluation of the fly repellent efficacy of two natural fly control sprays - PI
\$50,000 (from 2 year total \$119,977) - USDA-TSTAR - Resistance in the southern cattle tick, *Boophilus microplus*, to acaricides used on St. Croix and Puerto Rico - PI

Koehler

\$111,732 for a 2-year project - Tropical and Sub Tropical Agricultural Research - USDA-CSREES - Development and testing of new bait formulations for the invasive Caribbean crazy ants
\$14,000 for a 1-year project - Valent BioSciences - Cockroach gel bait testing
\$100,000 for a 1-year project - USDA-ARS SCA - Aerosol applications for control of sand flies and mosquitoes
\$133,960 for 1 year - Industry Sponsors - Insecticide evaluations

Lawrence - None

Leppla

\$170,179 - NIFA, EIPM-CS - Extension Integrated Pest Management Coordination and Support Program for the University of Florida (with B. Hochmuth, J. Funderburk, F. Fishel, and C. Connelly)
\$254,422 - Florida Specialty Crops Block Grant - State-wide Implementation of novel push-pull strategies for IPM of thrips (with J. Funderburk et al.)
\$18,803 - USDA/APHIS - Identification tool for arthropod pests of citrus (with A. Hodges)
\$5,000 - NRCS/IPM workshop, Critical Needs and Emerging Issues, SR IPM Center (with P. Werts and T. Greene, IPM Institute). Applied through Glades Crop Care.

Liburd

\$33,246 - Specialty Block State Grant - Developing integrated pest management strategies for controlling key pests in Florida blueberries - PI (with E. Rhodes and D. Miller) - (\$125,000 total award 2 year award)
\$1,500 - SHARE - Florida Blueberry Growers Association (from total \$3,000)

McAuslane

\$92,778 - FCPRAC, Florida Citrus Advanced Technology Program - Development and optimization of biorational tactics for Asian citrus psyllid control and decreasing Huanglongbing incidence - Co-PI

McSorley

\$21,664 - USD A, ARS (SCA) - Management of root-knot nematodes and other soilborne pests in floriculture production systems - PI

\$469,533 - USD A, CSREES Methyl Bromide Transitions Program - Short-term methyl bromide alternatives for the Florida floriculture industry - PI

\$142,033 (UF portion) - USDA, CSREES Crops at Risk (CAR) Program - Using cover crops to build an ecologically based pest management program for vegetable production - Co-PI (subcontract from University of Hawaii)

Medal - None

Miller - None

Oi - None

Pereira

\$111,732 for a 2-year project - Tropical and Sub Tropical Agricultural Research - USDA-CSREES - Development and testing of new bait formulations for the invasive Caribbean crazy ants

Webb

\$249,917 - USDA Specialty Crops grant - Development of a decision support system for managing viral watermelon vine decline and other vegetable diseases caused by white fly-transmitted viruses in the southeast - Co-PI (PI, W. Turechek, USDA)

\$49,000 - Gifts to SHARE

White - None

**TEACHING SUMMARY -- ENTOMOLOGY AND NEMATOLOGY FACULTY
CALENDAR YEAR 2010**

SPRING 2010

<u>COURSE</u>	<u>TITLE</u>	<u>ENR</u>	<u>INSTRUCTOR</u>
ALS 2931	Honors Biology with Fireflies	21	Lloyd
ALS 3203	PC Use in Agriculture - Web	125	Choate
ALS 4162/6935	Consequences of Biological Invasion	2	Cuda
ALS 4921	Honors Colloquium	21	F. Oi
ALS 6046	Grant Writing	48	Barfield/Daniels
ENY 2040	The Insects	137	Baldwin
ENY 3005/5006	Principles of Entomology - Web	123	Baldwin
ENY 3005L/5006L	Principles of Entomology Lab	15	Baldwin
ENY 3005/5006	Principles of Entomology	46	Barfield
ENY 3005L/5006L	Principles of Entomology Lab	166	Barfield
ENY 3007C/5160C	Life Science	58	Baldwin
ENY 3225/5226	Principles of Urban Pest Management	11	Koehler
ENY 3228/5228	Urban Vertebrate Pest Management - Web	7	Kern
ENY 4161/6166	Insect Classification	39	Branham
ENY 4161/6166	Insect Classification - Web	3	Choate
ENY 4453/6454	Behavioral Ecology and Systematics	27	Branham
ENY 4660/6665	Med-Vet Entomology / Adv Med-Vet Entomology - Web	23	Koehler
ENY 4660L/6665L	Med-Vet Entomology / Adv Med-Vet Entomology Lab - Web	23	Koehler
ENY 4701/6707	Forensic Entomology	9	Kaufman
ENY 4705L/6707L	Forensic Entomology Lab	6	Kaufman
ENY 5236	Insect Pest Vector Mgmt - Web	9	Capinera
ENY 5820	Insect Molecular Genetics	1	Hoy
ENY 6401C	Insect Physiology	19	Hahn
ENY 6651C	Insect Toxicology	4	Scharf
ENY 6651C	Insect Toxicology - Web	2	Yu
ENY 6905	Insect Physiology	3	Nation
ENY 6932	IFAS Biocontrol	4	Frank
ENY 6934	Research and Experiment Design in Entomology	12	Trager
ENY 6934	Insect/People/Animals	6	Kaufman/Oi
ENY 6934	Biology-Lepidoptera	5	Sourakov/Willmott
IPM 3022	Fundamentals of Plant-Pest Management	30	Cave
MCB 4503/5505	General Virology	128	Maruniak
NEM 3002/5002C	Principles of Nematology	67	Giblin-Davis
NEM 6931	Nematology Seminar	1	McSorley
NEM 6942	Nematode Diagnostics	5	Crow

SUMMER A 2010

<u>COURSE</u>	<u>TITLE</u>	<u>ENR</u>	<u>INSTRUCTOR</u>
ENY 3007C/5160C	Life Science	56	Baldwin
ENY 3222C/5223C	Biology and ID of Urban Pests	6	Koehler
ENY 6822C	Molecular Techniques	8	Maruniak
ENY 3541C/6934	Tree and Shrub Insects	2	Kern

SUMMER B 2010

<u>COURSE</u>	<u>TITLE</u>	<u>ENR</u>	<u>INSTRUCTOR</u>
ENY 1001	Bugs and People	222	Barfield
ENY 2040	The Insects	28	Baldwin
PMA 4570/6228	Field Techniques in IPM	10	Liburd
ENY 4905	Ecotourism Internship	1	Barfield

SUMMER C 2010

<u>COURSE</u>	<u>TITLE</u>	<u>ENR</u>	<u>INSTRUCTOR</u>
ENY 3005/5006	Principles of Entomology - Web	81	Baldwin
ENY 3005L/5006L	Principles of Entomology Lab - Web	22	Baldwin
ENY 3005L/5006L	Principles of Entomology Lab	52	Barfield
ENY 4161/6166	Insect Classification	17	Choate
ENY 4228	Urban Pesticide Appl-1	2	Koehler
ENY 4905	Ecotourism Internship	2	Barfield
ENY 5236	Insect/Pest/Vector Management	9	Capinera
ENY 5611	Immature Insects	9	Branham
ENY 6651C	Insect Toxicology	2	Yu

FALL 2010

<u>COURSE</u>	<u>TITLE</u>	<u>ENR</u>	<u>INSTRUCTOR</u>
ALS 2931	Honors Thermal Biology	10	Hahn
ALS 3153/5136	Agricultural Ecology	51	McSorley
ALS 3203	PC Use in Agriculture - Web	74	Choate
ALS 4161/6116	Exotic Species and Biosecurity	14	Hodges
ALS 4921	Honors Colloquium	25	Barfield
ENY 1001	Bugs and People	286	Barfield
ENY 2040	The Insects	79	Baldwin
ENY 3005/5006	Principles of Entomology - Web	97	Baldwin
ENY 3005/5006	Principles of Entomology	34	Miller
ENY 3005L/5006L	Principles of Entomology Lab - Web	41	Baldwin
ENY 3005L/5006L	Principles of Entomology Lab	115	Barfield
ENY 3007C/5160C	Life Science	16	Larrick
ENY 3222C/5223C	Biology and ID of Urban Pests - Web	12	Koehler
ENY 3510C/6905	Turf and Ornamental Entomology	14	E. Buss
ENY 4161/6166	Insect Classification - Web	5	Choate
ENY 4161/6166	Insect Classification	8	Choate
ENY 4210/5212	Insects and Wildlife	28	Capinera
ENY 4210/5212	Insects and Wildlife - Web	25	Capinera
ENY 4455/6905	Social Insects	13	G. Hall
ENY 4660/6665	Med-Vet / Adv Med-Vet Entomology 1 - Web	22	Koehler
ENY 4660/6665	Med-Vet Entomology / Adv Med-Vet Entomology	35	Kaufman
ENY 4660L/6665L	Med-Vet Entomology / Adv Med-Vet Entomology Lab - Web	23	Koehler
ENY 4660L/6665L	Med-Vet Entomology / Adv Med-Vet Entomology Lab	30	Kaufman
ENY 4905	Introduction to Beekeeping	4	Kern
ENY 5236	Insect, Pest and Vector Management	2	Capinera
ENY 5820	Insect Molecular Genetics - Web	2	Hoy
ENY 5820	Insect Molecular Genetics	9	Hoy
ENY 6203	Insect Ecology	12	McAuslane
ENY 6203	Insect Ecology - Web	7	McAuslane
ENY 6203L	Insect Ecology Lab	12	McAuslane
ENY 6203L	Insect Ecology Lab - Web	7	McAuslane
ENY 6651C	Insect Toxicology	2	Yu
ENY 6665	Adv Med-Vet Entomology 1	7	Kern
ENY 6665L	Adv Med-Vet Entomology 1 Lab	7	Kern
ENY 6905	Insect Physiology	1	Nation
ENY 6942	Insect Diagnostics	7	L. Buss
NEM 5707C	Plant Nematology	4	Dickson
PLP 3002/5005	Fundamentals of Plant Pathology	47	Crow