

33rd ANNUAL ANIMAL BEHAVIOR CONFERENCE

March 27–28, 2026

Plenary Speaker

Dr. Andrés Bendesky

Zuckerman Mind Brain
Behavior Institute,
Columbia University

*“The evolution of social
behaviors in nature and
under domestication”*

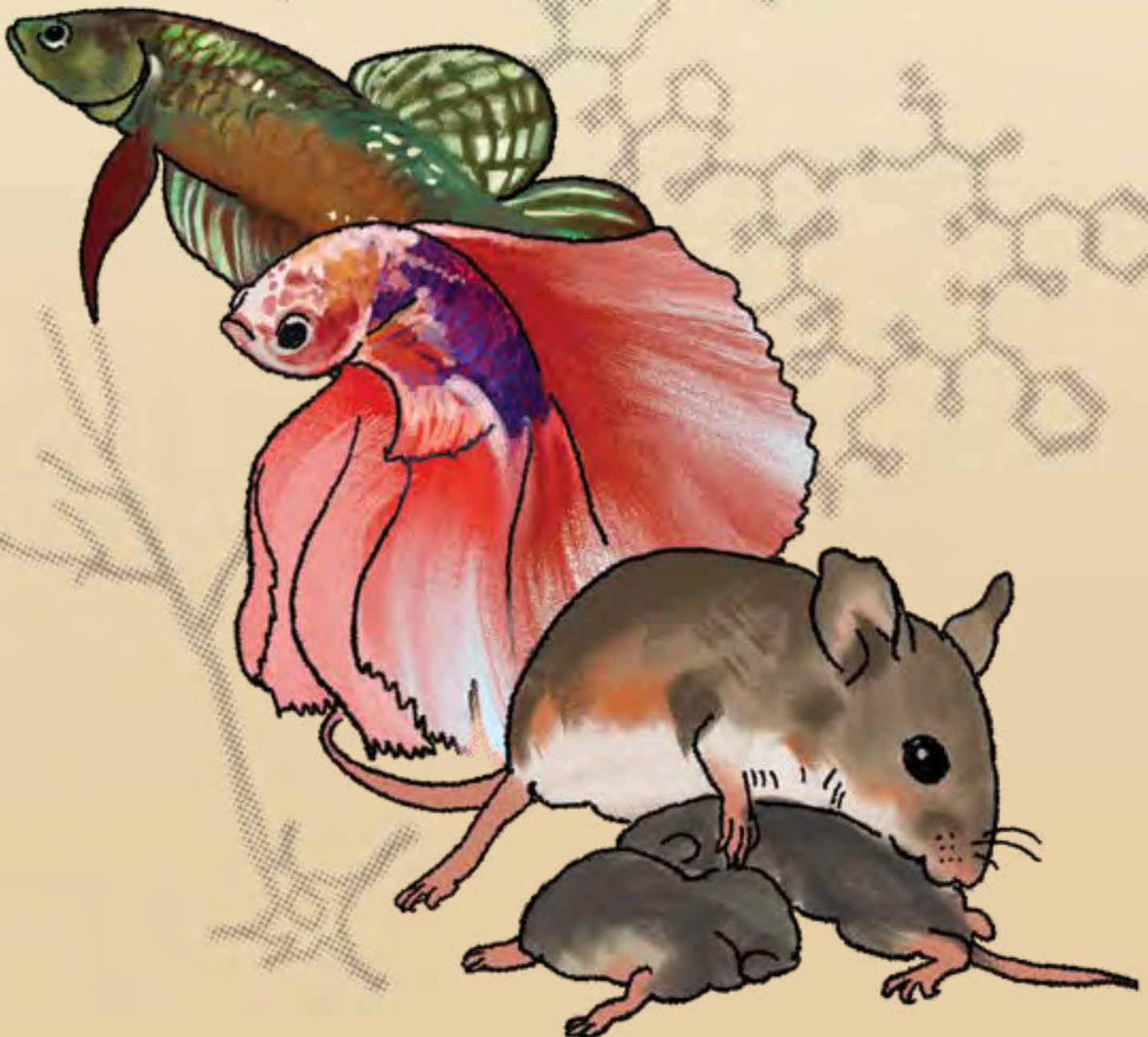


Keynote Speaker

Dr. Jeffrey Alberts

Psychological and Brain
Sciences, Indiana University

*“Autonomy, synchrony, and
symbiosis: an emergent view
of behavioral development”*



PROGRAM CONTENTS

PROGRAM IN BRIEF	1
WI-FI ACCESS AND INSTRUCTIONS FOR SPEAKERS	2
BLOOMINGTON CONVENTION CENTER AND PARKING.....	3
ONLINE ENGAGEMENT.....	4
PROGRAM SCHEDULE	
Friday talks.....	5
Poster presentations.....	8
Saturday talks.....	14
PLENARY AND KEYNOTE SPEAKER BIOGRAPHIES	16
ACKNOWLEDGEMENTS	17



Conference name tags feature color indicators to facilitate networking



Accepting Postdocs



Accepting Grad Students



Seeking Postdoc Position



Seeking Grad Program



Seeking Collaborators



This is a public event where pictures may be taken.

PROGRAM IN BRIEF

FRIDAY, MARCH 27TH

TALKS

9:00 AM – 3:30 PM

PLENARY SESSION

3:30 PM – 4:30 PM

OPENING RECEPTION

4:30 PM – 8:00 PM

POSTER SESSION

5:30 PM – 8:00 PM

SATURDAY, MARCH 28TH

TALKS

9:40 AM – 2:45 PM

KEYNOTE PRESENTATION

2:45 PM – 3:45 PM

AWARDS CEREMONY AND CLOSING REMARKS

3:45 PM – 4:00 PM

STUDENT ICE CREAM SOCIAL*

5:00 PM – 6:00 PM

**Held at The Chocolate Moose, 405 S Walnut St*

HOW TO DONATE TO CISAB

To keep fees low, funding for the IU Animal Behavior Conference depends on contributions from generous donors. Please consider donating to the Program in Animal Behavior Fund to help support future meetings.

Suggested Donation: Students - \$5, Faculty - \$20

Donate at www.myiu.org/one-time-gift

Search “Program in Animal Behavior” or scan code



WI-FI ACCESS

CONVENTION CENTER: Wi-Fi network: MCCC Guest WiFi
For assistance, see Convention Center staff or call 812-336-3681

INDIANA UNIVERSITY CAMPUS: Wi-Fi network: eduroam
Must be set up through an eduroam subscriber institution
Alternative network: IU Guest
For assistance, contact UITS at 812-855-6789

ACCOMMODATIONS FOR NURSING MOTHERS

At the Convention Center, nursing mothers will be provided with a private office, electricity, and a refrigerator, if needed. Please see Convention Center staff at the front desk or call 812-336-3681.

INSTRUCTIONS FOR SPEAKERS

File Submission:

*Submit your files **at least 24 hours** before your presentation time*

Name your presentation file as follows:

PresentationDay_PresentationTime_LastName_FirstName_OperatingSystem.FileExtension
(i.e. Fri_1100AM_Doe_John_Mac.pptx)

Audio and video can be included in the PowerPoint presentations, and any supplementary files can be submitted in a zipped folder. Use the file name above and add “_Suppl” to the end.

After you have named your file(s) appropriately, email them to: **abconf@iu.edu**

Files may be updated until the deadline by repeating this process with the same filename. We will use the most recent version.

Day of Presentation:

Please report to the speaker ready-table 10 minutes before your talk to be fit with a microphone. This table will be located in the Great Room, to the left of the speaker stage.

INSTRUCTIONS FOR POSTER PRESENTERS

Posters can be set up behind the audience in the Great Room during breaks in the speaker schedule on Friday, March 27th. Poster numbers are listed on pages 8-13 and hanging materials can be found on nearby tables. Posters should remain on display through Saturday morning and may be removed during breaks in the speaker schedule on Saturday, March 28th.

The main session will be broken into **two hour-long halves**, so that presenters may circulate and enjoy refreshments during their off-hour.

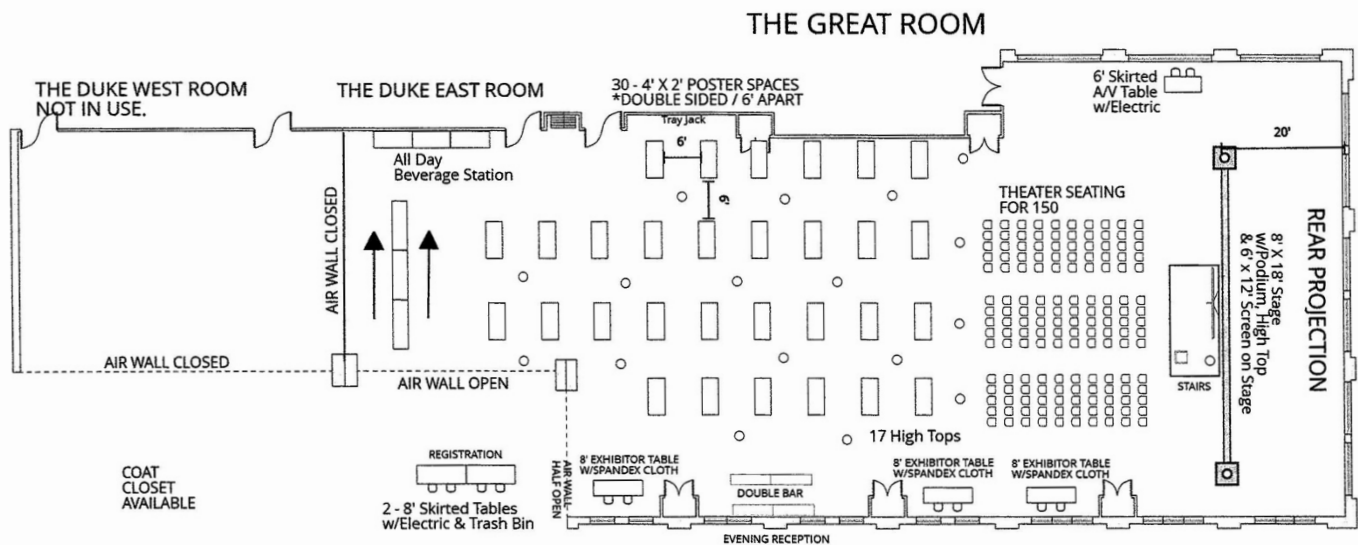
- **ODD** numbered posters are presented during the first hour of the session (**5:30-6:30 PM**)
- **EVEN** numbered posters are presented during the second hour (**6:30-7:30 PM**)
You may stand by your poster during your off hour, but it is not required.
- **Undergraduate Poster Competition Entrants** must attend their poster for an additional half-hour (**7:30-8 PM**) so that judges can circulate and ask additional questions.

BLOOMINGTON CONVENTION CENTER

302 S. College Avenue
Bloomington, IN 47403

Phone: 812-336-3681
www.BloomingtonConvention.com

SECOND FLOOR:



Parking is free in the lot behind the Convention Center and Marriott

For updated information about transportation and dining options around Bloomington, please see the Accommodations page of the Animal Behavior Conference website:

<https://animalbehavior.indiana.edu/news-events/conference/accomodations.html>

ACCOMMODATIONS



ONLINE ENGAGEMENT

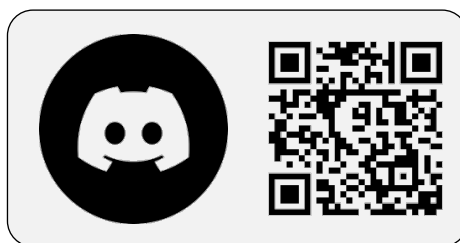
There are several ways to engage with the conference online. The purpose of these platforms is to facilitate networking, increase accessibility, and build community, both during and after the conference.

DISCORD SERVER

The ABC 2026 private Discord server lets members send group or direct messages, organized into relevant categories. Conference organizers will moderate the use of this server to ensure that conversations remain relevant and professional. To join on a laptop, tablet, or mobile device, navigate to the ABC 2026 invite link (or scan the QR code) and follow the instructions: <https://discord.gg/sNGGvMJAt>

Once you join the server, you will find several messaging “channels” where conference communication is organized into the following topics:

- Introductions & Networking
- Conference Logistics
- Questions & Discussion About Oral Presentations
- Questions & Discussion About Poster Presentations



ONEDRIVE SHARING

You may make your poster, presentation, or other materials available to other attendees online by uploading to our shared OneDrive folder:

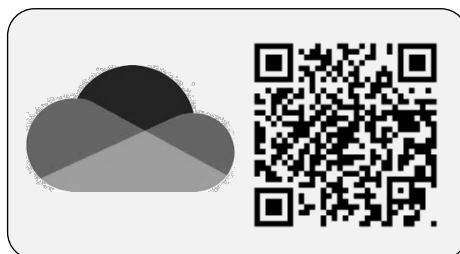
<http://tinyurl.com/ABC2026Posters>

PASSCODE: AnimalBehavior2026

Follow the file naming convention:

LastName_Poster#.FileExtension

Upload permissions will stay open through Wednesday, April 1st and then the folder will become “view only”



SOCIAL MEDIA

Follow us on Bluesky (@IU-CISAB.bsky.social) and Instagram (@iu.cisab) to get updates on everything happening at the conference! Tag us in your conference content using #ABC2026



FRIDAY, MARCH 27TH

SCHEDULE OF TALKS

THE GREAT ROOM, BLOOMINGTON CONVENTION CENTER

9:00 – 9:15 **OPENING REMARKS AND COFFEE**

Cara L Wellman

Director, Center for the Integrative Study of Animal Behavior

SESSION I: SOCIAL BEHAVIOR I

Faculty Discussant: Julia Saltz

9:15 – 9:30 **SOCIAL COMPETITION INFLUENCES BRAIN OXIDATIVE STRESS IN A SOCIAL CICHLID FISH**

Tyler W Beyett

Graduate Student, Department of Biology, Central Michigan University

9:30 – 9:45 **EXAMINING THE ROLE OF THE CIRCADIAN CLOCK NEURONS IN AGGRESSION**

Suryatapa Chatterjee

Graduate Student, Department of Biology, Indiana University Bloomington

9:45 – 10:00 **NONGENOMIC ESTROGEN SIGNALING FACILITATES NONBREEDING AGGRESSION IN FEMALE SIBERIAN HAMSTERS**

Hannah F Fink

Graduate Student, Department of Biology, Indiana University Bloomington

10:00 – 10:15 **USING LC-MS/MS TO ASSESS STEROID PRODUCTION IN A TERRITORIAL FEMALE BIRD AFTER A GNRH CHALLENGE**

Josephina H Fornara

Graduate Student, Department of Biology, Indiana University Bloomington

REFRESHMENT BREAK

SESSION II: ENVIRONMENTAL IMPACTS ON BEHAVIOR

Student Moderator: Cassandra Sheridan

10:30 – 10:45 **IMPACTS OF AGRICULTURE ON THE GUT MICROBIOME OF RED COLOBUS (*PILIOCOLOBUS TEPHROSCELES*) AND BLACK AND WHITE COLOBUS (*COLOBUS GUEREZA*)**

Madison Brown

Graduate Student, O'Neill School of Public and Environmental Affairs, Indiana University Bloomington

10:45 – 11:00 **BEHAVIORAL EFFECTS OF SUBLETHAL CADMIUM EXPOSURE ON A DUNG BEETLE *ONTHOPHAGUS SAGITTARIUS***

Miranda Towse

Research Associate, Department of Biology, Indiana University Bloomington

- 11:00 – 11:15 **DO SPECIES DIFFER IN THEIR RESPONSE TO A HEAT CHALLENGE? A CASE STUDY IN TWO CAVITY-NESTERS**
Atalanta C Ritter
Graduate Student, Department of Biology, Indiana University Bloomington
- 11:15 – 11:30 **PERINATAL EXPOSURE TO ACETAMINOPHEN ALTERS THE PAIN SENSITIVITY AND LOCOMOTOR PROFILES OF ADULT OFFSPRING**
Natalia Murataeva
Visiting Scholar, Department of Psychological and Brain Sciences, Indiana University Bloomington
- 11:30 – 11:45 **TOASTY TADPOLES: THE EFFECTS OF TEMPERATURE VARIATION ON LARVAL PHENOTYPES IN MESIC-ADAPTED FROGS *SCAPHIOPUS HOLBROOKII***
Eleanor Shell
Graduate Student, Department of Biology, Indiana University Bloomington
-

LUNCH BREAK

SESSION III: REPRODUCTION & PARENTING

Student Moderator: Yasmin Lord

- 1:15 – 1:30 **POSTPARTUM RESOURCE SCARCITY DISRUPTS SEX-SPECIFIC MATERNAL BEHAVIOR AND REORGANIZES STEROID-SENSITIVE NEURAL CIRCUITS**
Dario Aspesi
Postdoc, Neuroscience Institute and Center for Behavioral Neuroscience, Georgia State University
- 1:30 – 1:45 **ENHANCED ENRICHMENT IMPACTS WELFARE, BREEDING BEHAVIOR, AND AGGRESSION IN A CICHLID FISH**
Ethan B Burka
Graduate Student, Department of Biology, Central Michigan University
- 1:45– 2:00 **MOLECULAR CORRELATES OF MONOGAMY: TRANSCRIPTOMIC PROFILES OF THE PRAIRIE AND MEADOW VOLE HIPPOCAMPUS**
Kimberly Long
Assistant Professor, Department of Psychology, University of Illinois Urbana-Champaign
- 2:00 – 2:15 **REPRODUCTIVE COSTS OF PRIOR AND CURRENT PATHOGEN INFECTION VARY BETWEEN SEXES**
Katie M Talbott
Postdoc, Department of Biology, University of San Diego
-

REFRESHMENT BREAK

SESSION IV: COMMUNICATION

Faculty Discussant: Laura Hurley

- 2:30 – 2:45 **DO YOU SMELL THAT SMELL? CHEMICAL COMMUNICATION IN SOUTHERN TWO-LINED LARVAE AND STREAMSIDE LARVAE**
Abigail M Badore
Undergraduate Student, Biology Department, Hanover College
- 2:45 – 3:00 **ANDEAN HUMMINGBIRDS AS A MODEL TO STUDY EVOLUTIONARY INNOVATIONS IN COMMUNICATION SYSTEMS**
Fernanda G Duque
Assistant Professor, School of Biological Sciences, Illinois State University
- 3:00 – 3:15 **SINGING FAST AND SLOW: UNCOVERING EVOLUTIONARY CONSTRAINTS AND INNOVATIONS IN BIRDSONG TEMPO**
Carlos A Rodriguez-Saltos
Assistant Professor, School of Biological Sciences, Illinois State University
-

REFRESHMENT BREAK

PLENARY SESSION:

- 3:30 – 4:30 **THE EVOLUTION OF SOCIAL BEHAVIORS IN NATURE AND UNDER DOMESTICATION**
Andrés Bendesky
Associate Professor, Zuckerman Institute, Columbia University
- 4:30 – 8:00* **OPENING RECEPTION**
Duke Energy Room East, Bloomington Convention Center
**Concurrent with the poster session*
- 5:30 – 7:30 **POSTER SESSION**
The Great Room, Bloomington Convention Center

OPENING RECEPTION AND POSTER SESSION

Immediately after the plenary session, we will begin our opening reception. Hors d'oeuvres will be served in the eastern half of the Duke Energy Room and can be enjoyed concurrently with the poster session, which will begin at 5:30 PM.

Full abstracts and author lists for all posters and talks are available on the Schedule & Program page of the conference website:
<https://animalbehavior.indiana.edu/news-events/conference/schedule.html>



Posters that presenters have chosen to share electronically can be found in our conference OneDrive folder:
<https://tinyurl.com/ABC2026Posters>



POSTER PRESENTATIONS

FRIDAY, MARCH 27TH 5:30-7:30 PM, THE GREAT ROOM, BLOOMINGTON CONVENTION CENTER

ODD-NUMBERED POSTERS PRESENTED FROM 5:30 – 6:30 PM

EVEN-NUMBERED POSTERS PRESENTED FROM 6:30 – 7:30 PM

POSTER COMPETITION ENTRANTS RETURN FROM 7:30 – 8 PM

Presenters may tour other posters during their off-hour

Poster numbers alphabetical by presenter last name (**bold**). Full abstracts can be found on the conference website: <https://animalbehavior.indiana.edu/news-events/conference/schedule.html>

1 **DECODING MOTION: MACHINE-LEARNING DETECTION OF SEX DIFFERENCES IN ETHOLOGICAL BEHAVIOR OF LONG-EVANS HOODED RATS**

Aad A^{1,2,5}, Volyanyuk M^{1,2,5}, Wallace D⁶, Foecking E^{1,2,3,4,5}

¹Neuroscience Graduate Program, ²Department of Molecular Pharmacology and Neuroscience, ³Department of Otolaryngology, and ⁴Burn and Shock Trauma Research Institute, Loyola University Chicago; ⁵Edward Hines Jr. VA Hospital Research Service; ⁶Department of Psychology, Northern Illinois University

2 **SEEING BEYOND OUR EYES: HOW HUMMINGBIRD VISION SHAPES FORAGING AND MATE CHOICE DECISIONS**

Arzani A¹, Frias-Romero A², Arias-Borja J³, Guevara EA⁴, Duque F¹

¹School of Biological Sciences, Illinois State University; ²Functional Ecology Laboratory, Universidad del Azuay; ³Aves y Conservación (BirdLife in Ecuador); ⁴Conservation Ecology Group, Department of Biology, Marburg University

3 **MORPHOLOGICAL CHANGES ASSOCIATED WITH LIVING IN URBAN ENVIRONMENTS IN INVASIVE CANE TOADS**

Bailen D¹, **Cruser B**¹, Mularo A², Mittan-Moreau C², Bernal XE^{1,3}

¹Department of Biological Sciences, Purdue University; ²Kellogg Biological Station, Michigan State University; ³Smithsonian Tropical Research Institute

4 **ARE HIGH-FREQUENCY VOCALIZATIONS EFFECTIVE AS AGGRESSIVE SIGNALS IN MEDIATING HETEROSPECIFIC INTERACTIONS IN HUMMINGBIRDS?**

Baruah P¹, Frías-Romero A², Arias-Borja J³, Duque FG¹

¹School of Biological Sciences, Illinois State University; ²Functional Ecology Laboratory, Universidad del Azuay; ³Aves y Conservación, BirdLife International en Ecuador

5 **THE ACTIVITY BUDGETS, SOCIAL BEHAVIOR, AND SPACE USE OF CAPTIVE CHIMPANZEES (*PAN TROGLODYTES*)**

Brock I¹, Nelson E^{2,5}, Cartmill E^{2,3,4,5}, Martin CF^{5,6}, Walker I⁶

¹Paul H. O'Neill School of Public and Environmental Affairs, ²Department of Anthropology, ³Department of Cognitive Science, ⁴Center for the Integrative Study of Animal Behavior, and ⁵Department of Informatics, Indiana University; ⁶Indianapolis Zoo, Indianapolis, IN

6 **HYPOXIA TOLERANCE IN AN AFRICAN CICHLID FISH: MITOCHONDRIAL FUNCTION AND OXIDATIVE STRESS RESPONSES**

Buzinsski O, Wojtylko S, Howard M, Beyett T, Dijkstra P

Department of Biology, Central Michigan University

- 7 **EFFECTS OF TRAUMATIC BRAIN INJURY AND CHRONIC ALCOHOL-USE ON LEARNING AND MEMORY**
Carr J¹, Williams BB^{2,3}, Hoffman J¹
¹*Department of Molecular Pharmacology and Neuroscience, Loyola University Chicago;* ²*Department of Psychiatry and* ³*Bowles Center for Alcohol Studies, University of North Carolina, Chapel Hill*
- 8 **ACUTE STRESS DISRUPTS REDOX HOMEOSTASIS IN A CICHLID FISH**
Chamilly F¹, Wojtylko S¹, Dijkstra P^{1,2,3}
¹*Department of Biology,* ²*Program in Neuroscience, and* ³*Institute for Great Lakes Research, Central Michigan University*
- 9 **CORTISOL-SOCIAL INTERACTION DOES NOT AFFECT COMMUNICATIVE BEHAVIORS IN TERRITORIAL ELECTRIC FISH, *APTERONOTUS ALBIFRONS***
Claar A¹, Smith T²
¹*Washington & Jefferson College;* ²*Center for the Integrative Study of Animal Behavior and Department of Biology, Indiana University*
- 10 **TESTING FOR SEXUAL DIMORPHISM IN THE SCALY-BREASTED WREN (*MICROCERCULUS MARGINATUS*)**
Cohen D, Duque F, Rodriguez-Saltos C
School of Biological Sciences, Illinois State University
- 11 **DIFFERENTIAL EXPRESSION OF CHEMORECEPTOR GENES IN ARMS AND TENTACLES OF BOBTAIL SQUID**
Collie E, Day V, Rhodes H
Department of Biology, Denison University
- 12 **THE IMPACT OF SOCIAL MALE STATUS ON VAGINAL SECRETORY RESPONSES IN MICE**
Crook S¹, Murataeva N², Mattox S¹, Straiker A¹
¹*Gill Institute for Neuroscience, Indiana University;* ²*Indiana University School of Medicine*
- 13 **HUNTING MODALITIES IN BOBTAIL SQUID**
Day V, Rhodes H
Department of Biology, Denison University; Grass Lab, Marine Biological Laboratory
- 14 **DISENTANGLING THE ROLES OF NEURAL AND PERIPHERAL ANDROGEN SIGNALING IN PATERNAL CARE IN BIRDS**
Duffey DM^{1,2}, Fornara JH¹, Rosvall KA¹
¹*Department of Biology and Center for the Integrative Study of Animal Behavior, Indiana University;* ²*Department of Evolution, Ecology and Organismal Biology, The Ohio State University*
- 15 **THE EFFECT OF STRESS ON FEMALE PREFERENCE AND PERCEPTION OF A SOCIALLY RELEVANT STIMULUS**
Enevold A, Duque FG
School of Biological Sciences, Illinois State University
- 16 **THE ROLE OF VASOACTIVE INTESTINAL POLYPEPTIDE ON SOCIAL ENGAGEMENT IN MICE**
Ferreira DN¹, Waters CE², Hurley LM²
¹*Department of Anatomical Sciences and Neurobiology, University of Louisville;* ²*Department of Biology, Indiana University*
- 17 **AN EXPERIMENTAL STUDY OF IRIS COLORATION AS CAMOUFLAGE IN NOCTURNAL OWL SPECIES**
Flick S, Badore AM, Young M, Flamion I, Gall BG
Department of Biology, Hanover College

- 18 **INVESTIGATING THE NEURAL CIRCUITRY OF LEARNED SAFETY EXPRESSION IN RATS**
Foor EB¹, Reichert AN², Ramesh H¹, Quinn JJ¹
¹*Department of Psychology and Center for Neuroscience & Behavior, Miami University;* ²*Department of Psychology, Doane University*
- 19 **GEOGRAPHIC VARIATION IN THE TIMING OF SONG IN THE GENUS *MICROCERCULUS***
Geyer T, Duque F, Rodriguez-Saltos C
Department of Biology, Illinois State University
- 20 **INVESTIGATING THE ROLE OF THE NEUROPEPTIDE PIGMENT DISPERSING FACTOR ON TEMPERATURE ENTRAINED SLEEP RHYTHMS IN *DROSOPHILA MELANOGASTER***
Gonzalez M¹, Lakshman A², Shafer O¹
¹*Department of Biology, Indiana University;* ²*Department of Chemistry, University of Texas Rio Grande Valley*
- 21 **IS CLIMATE CHANGE AFFECTING THE POPULATION AND MIGRATORY DYNAMICS OF DARK-EYED JUNCOS?**
Good A¹, Kleinman J¹, Wanamaker S¹, Keith R³, Ketterson E¹, Kumar H²
¹*Department of Biology and* ²*Statistics Consulting Department, Indiana University;* ³*Kalamazoo Valley Bird Observatory, Kalamazoo Nature Center*
- 22 **LISTENING THROUGH THE NOISE: HOW A FROG-BITING MOSQUITO FINDS HOSTS IN URBAN ENVIRONMENTS**
Hall N¹, Singh R¹, Bernal XE^{1,2}
¹*Department of Biological Sciences, Purdue University;* ²*Smithsonian Tropical Research Institute*
- 23 **PLAYING CHAT AND MOUSE: IMPACTS OF NONLINEAR SQUEAK PLAYBACK ON MALE MOUSE NONVOCAL BEHAVIOR**
Hildreth M, Martinez FF, Rowlands CR, Keesom SM
Biology Department, Utica University
- 24 **QUANTIFYING SENSORY EXPECTATION IN A RAT MODEL OF FRAGILE X SYNDROME USING A PROBABILISTIC DEVIANT DETECTION TASK**
Gauthier, DW^{1,2,3}, **Hong E¹**, James N^{1,2}, Auerbach^{1,2,3}
¹*Department of Molecular and Integrative Physiology, School of Molecular and Cellular Biology,* ²*Beckman Institute for Advanced Science & Technology, and* ³*Neuroscience Program, University of Illinois Urbana-Champaign*
- 25 **FROM PIXELS TO DATA: AN OPEN-SOURCE PYTHON TOOL FOR INTEGRATING EMBRYONIC ACTIVITY AND SPATIAL CLUTCH STRUCTURE**
Johnson J, Ward J
Department of Biology, Ball State University
- 26 **EYE TO EYE: SCALING PATTERNS AND ECOLOGICAL FUNCTIONS IN MOSQUITO VISION**
Jurkovic G¹, Singh R¹, Bernal XE^{1,2}
¹*Department of Biological Sciences, Purdue University;* ²*Smithsonian Tropical Research Institute*
- 27 **EUSOCIALITY AND GENOME ARCHITECTURE IN SPONGE-DWELLING SYNALPHEUS SHRIMPS**
Kim CM
Department of Biology, Denison University
- 28 **BOBTAIL SQUID ARMS AND TENTACLES RESPOND TO DIFFERENT CHEMICAL STIMULI**
Hrivnak G, Kim E, Day V, Rhodes H
Department of Biology, Denison University

- 29 **WHO ARE YOU AND WHAT ARE YOU DOING? RESPONSE TO SOCIAL INFORMATION DURING A SHELTER CHOICE EXPERIMENT IN A COOPERATIVELY BREEDING FISH**
Kroeger K, Hamilton I
Department of Evolution, Ecology, and Organismal Biology, The Ohio State University
- 30 **EXAMINING THE RELATIVE USE OF AFFILIATIVE AND AGONISTIC BEHAVIORS BY MONK PARAKEETS *MYIOPSITTA MONACHUS* IN THE CHICAGO AREA**
Kulikauskaite GM, Appelt W
Department of Biological Sciences, Saint Xavier University
- 31 **BEHAVIORAL RESPONSES TO CONSPECIFIC ALARM SUBSTANCE EXPOSURE IN GUPPIES (*POECILIA RETICULATA*)**
Lasco N¹, Olson V², Saszik S¹
¹*Department of Psychology and* ²*Department of Counselor Education, Northeastern Illinois University*
- 32 **A MATTER OF PAW-FERENCE: EXPLORING MOVEMENT ORGANIZATION IN MICE PERFORMING STRING-PULLING TO INVESTIGATE ASYMMETRICAL COMPONENTS**
Little K, Murillo I, Sampson H, Roblin (Rybarczyk) L, Wallace D
Department of Psychology, Northern Illinois University
- 33 **EFFECTS OF NONLINEAR PHENOMENA IN FEMALE MOUSE SQUEAKS ON MALE MOUSE VOCALIZATIONS**
Martinez FF, Hildreth M, Rowlands CR, Keesom SM
Department of Biology, Utica University
- 34 **THE CAUSES AND CONSEQUENCES OF VARIATION IN PHYSIOLOGICAL HEAT RESPONSES IN WILD NESTLINGS**
Meschen MG, Ritter AC, Rosvall KA
Department of Biology, Indiana University
- 35 **INFLUENCE OF HABITAT CLUTTER ON ECHOLOCATION CALL CHARACTERISTICS OF INSECTIVOROUS BATS (*MYOTIS* SPP. AND *EPTESICUS* SPP.) IN MONTEVERDE, COSTA RICA**
Miller J
Center for the Integrative Study of Animal Behavior, Indiana University
- 36 **CELLULAR TRANSCRIPTOMIC EVOLUTION OF NOVEL ELECTRICAL SENSORY SYSTEM IN ELECTRIC FISH**
Miller-Crews I¹, Gallant JR², Orger MB³, Hahn MW¹, Zakon HH⁴, Smith GT¹
¹*Department of Biology, Indiana University;* ²*Department of Integrative Biology, Michigan State University;* ³*Champalimaud Neuroscience Programme, Champalimaud Centre for the Unknown, Lisbon, Portugal;* ⁴*Department of Integrative Biology, The University of Texas at Austin*
- 37 **DIMINISHING RETURNS: HUMMINGBIRD VISITATION AND AGGRESSION AT FEEDERS OF VARYING SUGAR CONCENTRATIONS IN AN ECUADORIAN CLOUD FOREST RESERVE**
Mitton-Fry A
Department of Evolution, Ecology, and Organismal Biology, The Ohio State University; Department of Biology, Carleton College; School for International Training, Brattleboro, VT
- 38 **DEAD END? ALTERNATIVE LIFE STRATEGIES FOR NEMATODES WHO LOSE THEIR SYMBIONT**
Moore K, Familo M, Bashey-Visser F
Department of Biology, Indiana University
- 39 **SLEEP COMPRESSION PRESERVES FUNCTION THROUGH DEEP SLEEP IN *DROSOPHILA***
Patel V, Shaw P
Department of Neuroscience, Washington University School of Medicine

- 40 **EARLY LIFE STRESS-INDUCED INCREASES IN ADULT FEAR LEARNING ARE MAINTAINED OVER TIME IN MALE AND FEMALE RATS**
Croskey BW, Ramesh H, Blessing AJ, Wittwer MM, Horstman TK, Wirtz GW, Jones C, Quinn JJ
Department of Psychology, Miami University
- 41 **DIFFERENTIAL EFFECTS OF ETHANOL ON VAGINAL AND EXOCRINE SECRETION IN A MURINE MODEL**
Ramani S, Murataeva N, Straiker A
Department of Psychological and Brain Sciences, Indiana University
- 42 **EFFECTS OF ENVIRONMENTAL ENRICHMENT OR CHRONIC UNPREDICTABLE MILD STRESS ON MOTIVATED BEHAVIORS IN MALE AND FEMALE ADOLESCENT RATS**
Ramesh H, Puppel LP, Wittwer MM, Kasicki-Rodriguez CJ, Quinn JJ
Department of Psychology and Center for Neuroscience & Behavior, Miami University
- 43 **CANNABINOID EFFECTS IN A GALVANIC SKIN RESPONSE MODEL OF SWEATING IN MICE**
Rao Y, Youkilis J, Straiker A, Murataeva N
Department of Psychological and Brain Sciences and Gill Institute of Neuroscience, Indiana University
- 44 **BARRIERS TO PET ADOPTION AND RECOMMENDATIONS FOR OVERCOMING SHELTER OVERPOPULATION**
Richardson E
Department of Psychology, Earlham College
- 45 **THE INTERACTIONS BETWEEN CHROMOSOMAL AND GONADAL SEX AFFECT LUNG FUNCTION AFTER SUB-CHRONIC OZONE EXPOSURE**
Rousselle D, Ekpruke D, Silveyra P
Department of Environmental and Occupational Health, Indiana University
- 46 **VARIATION IN BEAK MOVEMENTS DURING BIRDSONG**
Scott J, Rodriguez-Saltos C
Department of Biology, Illinois State University
- 47 **FAMILY MATTERS: INVESTIGATING THE ROLE OF PHYLOGENETIC SIMILARITY IN SYMBIOTIC COMPATIBILITY**
Seifert H¹, Moore K², Bashey-Visser F², Familo M²
¹Department of Biology, Miami University; ²Department of Biology, Indiana University
- 48 **BEHAVIOR TOPOGRAPHY IN EARTHWORMS CLASSICALLY CONDITIONED WITH VIBRATION AND LIGHT**
Singh N, Claflin D
Department of Psychology, Wright State University
- 49 **URBANIZATION AND THE ULTRASONIC VOCALIZATIONS OF WILD DEER MICE (*PEROMYSCUS MANICULATUS*)**
Thomas L, del Barco-Trillo J
School of Biological Sciences, Illinois State University
- 50 **AGE- & SEX-ASSOCIATED BEHAVIOR DIFFERENCES IN AFRICAN SAVANNA ELEPHANTS *LOXODONTA AFRICANA***
Torres R¹, Shull PD¹, Morales C¹, Olivier L², Kalande K², Chisaka L², Kasango M², Mwaanga W², Iruri-Tucker A¹, Chusyd DE¹
¹Department of Environmental and Occupational Health, Indiana University; ²Game Rangers International
- 51 **DOES LIMONENE AFFECT PHEROMONE RESPONSE IN MALE *GRYLLODES SIGILLATUS***
Uwase F¹, Weston E², Murphy M²
¹Department of Psychological and Brain Sciences and ²Department of Biology, Indiana University

- 52 **SOCIAL ISOLATION DOES NOT INDUCE ANXIETY-LIKE BEHAVIOR IN MIDDLE-AGED RATS**
Venegas JJ¹, Mathan M¹, Miller RM¹, Luarca EN¹, Lacey TE¹, Davis AR¹, Ilankovan T¹, Liang N^{1,2,3,4}
¹Department of Psychology, ²Neuroscience Program, ³Division of Nutritional Sciences, and ⁴Personalized Nutrition Initiative, University of Illinois Urbana-Champaign
- 53 **FEMALE REJECTION SIGNALS SUPPRESS A SUBPOPULATION OF EXCITATORY NEURONS IN THE INFERIOR COLLICULUS**
Waters CE, Hurley LM
Department of Biology, Indiana University
- 54 **NEST BUILDING INITIATION IN AMERICAN ROBINS (*TURDUS MIGRATORIUS*)**
Watson K, Villalona C, Abolins-Abols M
Department of Biology, University of Louisville
- 55 **PERSISTENT EFFECTS OF NEONATAL HYPOXIA ON RAT ULTRASONIC VOCALIZATIONS**
Wei Y, Long K, Granston A, **Rodriguez-Contreras A**
Department of Communication Sciences and Disorders, Northwestern University
- 56 **AUDITORY PRIMING TO INCREASE RISK PERCEPTION OF BLACKBIRDS TO APPROACHING DRONES**
Wilson NH¹, Duttonhefner JL¹, Klug PE²
¹Department of Biological Sciences, North Dakota State University; ²Animal and Plant Health Inspection Service, Wildlife Services, and National Wildlife Research Center, United States Department of Agriculture
- 57 **A COMPARISON OF FIELD AND EXPERIMENTAL OBSERVATIONS OF ARBOREAL BEHAVIOR IN MULTIPLE SPECIES OF FOSSORIAL SALAMANDERS**
Young MR, Gall BG
Department of Biology, Hanover College

SATURDAY, MARCH 28TH

SCHEDULE OF TALKS

THE GREAT ROOM, BLOOMINGTON CONVENTION CENTER

9:40 – 9:45 **OPENING REMARKS AND COFFEE**

Cara L Wellman

Director, Center for the Integrative Study of Animal Behavior

SESSION V: COGNITION & LEARNING

Student Moderator: Sara Isgate

9:45 – 10:00 **ODOR IN THE COURT: EFFECTS OF CONFLICTING AND NOVEL INFORMATION ON MOUSE OLFACTORY MEMORY**

Holly Sampson

Graduate Student, Department of Psychology, Northern Illinois University

10:00 – 10:15 **INVESTIGATING COGNITION ACROSS SCALES IN POLYMORPHIC BEETLE *ONTHOPHAGUS TAURUS*: FROM BRAINS TO BIOLOGICAL INVASIONS**

Rebecca R Westwick

Postdoc, Department of Biology, Indiana University Bloomington

10:15 – 10:30 **RATS REPLAY EPISODIC MEMORIES IN CONTEXT**

Siyan Xiong

Graduate Student, Department of Psychological and Brain Sciences, Indiana University Bloomington

10:30 – 10:45 **EMBRYONIC SOCIAL LEARNING STRATEGIES: AN AGE-BASED AND COPY-THE-MAJORITY STRATEGY IN FATHEAD MINNOWS (*PIMEPHALES PROMELAS*)**

Abigail Yake

Graduate Student, Department of Biology, Ball State University

REFRESHMENT BREAK

SESSION VI: SENSORY ECOLOGY

Student Moderator: Suryatapa Chatterjee

11:00 – 11:15 **TESTING THE GENERALIST ASSUMPTION: DO GENERALIST NEMATODES DIFFER IN THEIR CHEMOTAXIS BEHAVIOR AND INSECT-HOST UTILIZATION?**

Jonathan Enriquez Madrid

Graduate Student, Department of Biology, Indiana University Bloomington

11:15 – 11:30 **THE "EGG-STRODINARY" SOCIAL NETWORK: HOW FISH EMBRYOS USE SIGHT AND TOUCH TO INTERACT IN THE NEST**

Jewel Johnson

Graduate Student, Department of Biology, Ball State University

- 11:30 – 11:45 **THE EFFECT OF TRAFFIC NOISE AND ARTIFICIAL LIGHT AT NIGHT ON MALE CALLING BEHAVIOR**
Jabez Shin
Undergraduate Student, Department of Biological Sciences, Purdue University
- 11:45 – 12:00 **THE SENSORY ECOLOGY OF NET-CASTING SPIDERS**
Jay A Stafstrom
Assistant Professor, Department of Biology, Indiana University Bloomington
-

LUNCH BREAK

SESSION VII: **SOCIAL BEHAVIOR II**

Student Moderator: Lindsay Stolting

- 1:30 – 1:45 **WAS *HOMO NALEDI* A COOPERATIVE BREEDER?**
Shawn D Hurst
Assistant Professor, Department of Biology, University of Indianapolis
- 1:45 – 2:00 **FREQUENT ERRORS ARE MOST DETRIMENTAL: ROBUSTNESS TO INDIVIDUAL ERRORS IN COLLECTIVE FORAGING**
Chinmay Hemant Joshi
Research Scientist, Department of Ecology and Evolutionary Biology, University of Arizona
- 2:00 – 2:15 **EFFECTS OF PERINATAL OPIOID EXPOSURE ON ADOLESCENT SOCIAL BEHAVIOR IN MALE AND FEMALE RATS**
Rachel Bond
Graduate Student, Neuroscience Institute, Georgia State University
- 2:15 – 2:30 **CHIMPANZEE-VISITOR INTERACTIONS: DIFFERENTIATION AND PREFERENCES OF HUMAN TYPES**
Emma K Nelson
Graduate Student, Department of Anthropology, Indiana University Bloomington
-

REFRESHMENT BREAK

KEYNOTE PRESENTATION:

- 2:45 – 3:45 **AUTONOMY, SYNCHRONY, AND SYMBIOSIS: AN EMERGENT VIEW OF BEHAVIORAL DEVELOPMENT**
Jeffrey Alberts
Professor, Department of Psychological and Brain Sciences, Indiana University Bloomington
- 3:45 – 4:00 **AWARDS AND CLOSING REMARKS**
The Great Room, Bloomington Convention Center
- 5:00 – 6:00 **STUDENT ICE CREAM SOCIAL**
The Chocolate Moose, 405 S Walnut St

PLENARY AND KEYNOTE SPEAKER BIOGRAPHIES

PLENARY SPEAKER: ANDRÉS BENDESKY, M.D., Ph.D.

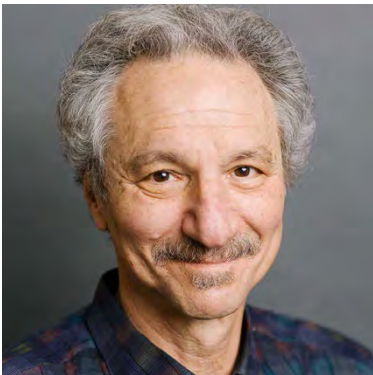
ASSOCIATE PROFESSOR, COLUMBIA UNIVERSITY



Dr. Andrés Bendesky is an Associate Professor of Ecology, Evolution, and Environmental Biology at Columbia University. He received his MD from Universidad Nacional Autónoma de México (UNAM) and his PhD from The Rockefeller University, where he worked with Dr. Cori Bargman. He was then awarded the Helen Hay Whitney Postdoctoral Fellowship at Harvard University. His lab, situated at Columbia's Zuckerman Mind Brain Behavior Institute, takes a multi-level approach to explaining behavioral variation across related species of mice and Siamese fighting fish.

KEYNOTE SPEAKER: JEFFREY ALBERTS, Ph.D.

PROFESSOR, INDIANA UNIVERSITY BLOOMINGTON



Dr. Jeffrey Alberts is a Professor in the Department of Psychological and Brain Sciences at Indiana University Bloomington. He received his PhD in Neural Science and Behavior from Princeton University. His research program is broadly focused on the ontogeny of behavior. Over his career, he has examined the developmental effects of prenatal environment, parental behavior, and parent-offspring communication in rodent systems.

ACKNOWLEDGEMENTS

CISAB ADMINISTRATION

Program Director: Dr. Cara L Wellman
Program Manager: Jessica Smith
Laboratory Director: David Sinkiewicz
Administrative Assistant: Charli Taylor



CONFERENCE ORGANIZERS

Program Committee

Lindsay Stolting (Co-Chair)
Atalanta Ritter (Co-Chair)
Morgan Familo
Josie Fornara
Maire O'Malley
Cassandra Sheridan
Courtney Waters
Katie West

Promotions Committee

Josie Fornara (Chair)
Liz Aguilar
Abel Cong
Atalanta Ritter
Ellie Shell
Lauren Shinn
David Sinkiewicz

Social Media Coordinators

Morgan Familo
Yasmin Lord
Lindsay Stolting
Courtney Waters

Socializing Committee

Amanda Han (Co-Chair)
Hannah Fink (Co-Chair)
Abel Cong
Yasmin Lord
Maire O'Malley

Poster Session Committee

Lindsay Stolting (Co-Chair)
Morgan Familo (Co-Chair)
Jonathan Enriquez Madrid
Hannah Fink
Yasmin Lord
Dante Nesta

Audio Visual Committee

Sara Isgate (Co-Chair)
Katie West (Co-Chair)
Liz Aguilar
Abel Cong
Morgan Familo
Hannah Fink
David Sinkiewicz
Lindsay Stolting
Courtney Waters

Undergraduate Poster Judges

Dante Nesta (Co-Chair)
Ellie Shell (Co-Chair)
Suryatapa Chatterjee
Jonathan Enriquez Madrid
Sara Isgate
Cassandra Sheridan
Lindsay Stolting
Maire O'Malley
Hal Terry
Katie West

Registration Table Staff

Charli Taylor (Chair)
Jessica Smith

Program Cover Artist

Abel Cong

FUNDING SOURCES

The William J. Rowland Mentorship Award Fund
Indiana University Department of Biology
Indiana University Department of Psychological
and Brain Sciences

The Program in Animal Behavior Fund
Indiana University Office of the Bicentennial
Indiana University College of Arts and Sciences
The Hanna Kolodziejski Fellowship Fund

NOTES

NOTES



Program in Animal Behavior

Center for the Integrative Study of Animal Behavior

Indiana University Bloomington

409 North Park Avenue
Bloomington, IN 47408

(812) 855-9663
abeh@iu.edu

