

The 85th Annual Meeting of the American Society of Parasitologists

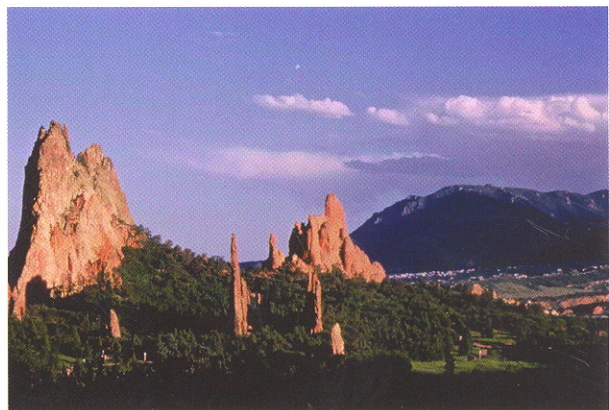
Crowne Plaza – Colorado Springs, Colorado
June 22 – 25, 2010



Downtown Colorado Springs



Colorado Columbine



Garden of the Gods

Program & Abstracts

Tuesday Morning, 2010-06-22

08:00 AM – Noon ASP Council Meeting, Rampart

Presiding: G.D. Cain, University of New Mexico, Albuquerque, NM

Tuesday Afternoon, 2010-06-22

1:00-5:00 STUDENT COMPETITION I, Salon D

Presiding: J. Camp, Purdue University, West Lafayette, IN
K. Sapp, High Point University, High Point, NC

Time (Abstract No.)

- 1:00 (1)** J. J. Chaparro-Gutiérrez, M. Wasserman, TWO GIANT PROTEASES IN AN EARLY-DIVERGENT PARASITE, GIARDIA INTESTINALIS.
- 1:15 (2)** E. Hoellerich, C. Dunagan, D. Maring, Y. Wong, T. J. Albert, J. Milhon, NUCLEOLAR LOCALIZATION OF SMMAK16 PROTEIN FROM SCHISTOSOMA MANSONI IS NOT EFFECTED BY PH OR PHOSPHORYLATION.
- 1:30 (3)** P. Vigueira, K. S. Paul, ACETYL-COA CARBOXYLASE OF TRYPANOSOMA BRUCEI: A NEW DRUG TARGET FOR TREATMENT OF AFRICAN TRYPANOSOMIASIS.
- 1:45 (4)** M. R. Zimmermann, K. E. Luth, G. W. Esch, INFECTION DYNAMICS OF DAUBAYLIA POTOMACA (NEMATODA: RHABDITIDA) IN HELISOMA ANCEPS.
- 2:00 (5)** K. E. Luth, M. R. Zimmermann, G. W. Esch, FACTORS INFLUENCING THE COMMUNITY COMPOSITION OF PARASITIC AND FREE-LIVING NEMATODES IN A FRESH-WATER SYSTEM.
- 2:15 (6)** D. Szuroczki, PRESENCE OF RIBEIROIA ONDATRAE IN THE DEVELOPING ANURAN LIMB DISRUPTS THE RETINOIC ACID SIGNALING CASCADE.
- 2:30-02:45** COFFEE BREAK
- 2:45 (7)** S. A. Coggins, J. F. Hillyer, COMPARATIVE SUSCEPTIBILITY OF AEDES AEGYPTI AND ANOPHELES GAMBIAE MOSQUITOES TO BACTERIAL INFECTION.
- 3:00 (8)** H. R. Tracy, M. G. Bolek, HELMINTH AND LEECH COMMUNITY STRUCTURE IN TWO SPECIES OF SYMPATRIC LARVAL AMPHIBIANS FROM WESTERN NEBRASKA.

3:15 (9) **H. R. Tracy**, M. G. Bolek, OBSERVATIONS ON THE NEMATODE GYRINICOLA BATRACHIENSIS (OXYUROIDEA: PHARYNGODONIDAE) IN EIGHT SPECIES OF LARVAL AMPHIBIANS FROM NEBRASKA.

3:30 (10) **A. K. Knipes**, J. Janovy, Jr., STREAM MORPHOLOGY, NICHE USE, AND OTHER FACTORS DETERMINING THE DISTRIBUTION OF DACTYLOGYRUS SPP. (MONOGENEA) ON NATIVE NORTH AMERICAN CYPRINIDS.

3:45 (11) **R. M. Fogelman**, THE BODY SIZES OF CYMOTHOID ISOPOD PARASITES.

4:00 (12) **H. A. Robinson**, M. A. Barger, T. J. Cook, ROLE OF ENVIRONMENTAL FACTORS IN STRUCTURING ENDOHELMINTH COMMUNITIES IN THE WESTERN MOSQUITOFISH, GAMBUSIA AFFINIS.

4:15 (13) **J. S. Carlson**, PHYLOGENETIC RELATIONSHIPS OF BLOOD PARASITES IN THE AVIFAUNA OF SOCORRO ISLAND, MÉXICO.

4:30 (14) **J. A. Ferguson**, J. Romer, C. B. Schreck, M. L. Kent, IMPACTS OF MULTIPLE PARASITE SPECIES INFECTION ON OREGON COASTAL JUVENILE COHO SALMON (ONCORHYNCHUS KISUTCH).

4:45 (16) **A. D. Stumbo**, TREMATODE-INDUCED OXIDATIVE STRESS IN LIVER TISSUE OF MINNOWS EXPOSED TO ORNITHODIPLOSTOMUM SP. CERCARIAE.

5:00 (17) **M. A. Thomson**, C. Goater, D. Colwell, TRANSMISSION BIOLOGY OF THE LANCET LIVER FLUKE (DICROCOELIUM DENDRITICUM) AMONG POTENTIAL DEFINITIVE HOSTS IN WESTERN ALBERTA, CANADA.

1:00-5:00 **VECTOR BIOLOGY, CELL BIOLOGY, PHYSIOLOGY, Salon E**

Presiding: J.F. Hillyer, Vanderbilt University, Nashville, TN

Time (Abstract No.)

1:00 (17) **R. H. Easy**, CHANGES IN ATLANTIC SALMON AND COD EPIDERMAL MUCUS PROTEINS IN RESPONSE TO STRESS.

1:15 (18) **R. H. Fetterer**, R. S. Schwarz, K. B. Miska, M. C. Jenkins, IDENTIFICATION AND PARTIAL CHARACTERIZATION OF AN EIMERIA SPECIFIC PROTEIN.

1:30 (19) **J. F. Hillyer**, J. W. Andereck, J. G. King, ABDOMINAL CONTRACTIONS FACILITATE EXTRACARDIAC RETROGRADE HEMOLYMPH PROPULSION IN THE MOSQUITO HEMOCOEL.

1:45 (20) **K. Tackett**, C. D. Davis, HIGH PREVALENCE OF BORRELIA BURGDORFERI IN TICKS RECOVERED FROM RACCOONS AND OPOSSUMS TRAPPED IN KENTUCKY.

- 2:00 (21)** **S. M. Vetter**, J. L. Holmes, J. A. Montenieri, C. B. Graham, M. E. Woods, R. J. Eisen, K. L. Gage, EFFECTS OF TEMPERATURE ON TRANSMISSION OF YERSINIA PESTIS BY THE FLEA, XENOPSYLLA CHEOPIS.

1:00-5:15 **TEACHER EDUCATION WORKSHOP, Gold Camp**

Presiding: J. Serach, Aldo Leopold Chair
The Lawrenceville School, Lawrenceville, NJ

- 1:00** WELCOME AND OVERVIEW. **Ron Hathaway**, Professor of Biology, Colorado College, Colorado Springs, CO and **Jim Serach**, Aldo Leopold Chair, Lawrenceville School, Lawrenceville, NJ.

- 1:15** KEYNOTE ADDRESS: TOP TEN PARASITES. **John Janovy, Jr.**, Varner Professor of Biological Sciences, University of Nebraska-Lincoln, Lincoln, NE.

- 2:00** THE COOL, THE BAD, AND THE UGLY. **Matthew Bolek**, Assistant Professor of Zoology, Oklahoma State University, Stillwater, OK.

2:30-02:45 **COFFEE BREAK**

- 2:45-5:00** "INFECTING" THE NEXT GENERATION-PARASITIES IN THE CLASSROOM, LABORATORY AND FIELD. **J. Serach** and **Alaine Knipes**, PhD Graduate Student, University of Nebraska-Lincoln, Lincoln, NE.

- 5:00-5:15** Wrap up: Future Directions and Opportunities. **J. Serach.**

2:45-5:15 **GENETICS, MOLECULAR BIOLGY, IMMUNOLOGY, Salon G**

Presiding: C. Bayne, Oregon State University, Corvallis, OR
E.S. Loker, University of New Mexico, Albuquerque, NM

Time (Abstract No.)

- 2:45 (22)** **F. O. Akinbo**, C. E. Okaka, R. Omoregie, L. Xiao, MOLECULAR EPIDEMIOLOGY OF CRYPTOSPORIDIOSIS AMONG HIV-INFECTED SUBJECTS IN BENIN CITY, EDO STATE, NIGERIA.
- 3:00 (23)** **V. Gelmedin**, ROLE OF ANCYLOSTOMA CANINUM TRANSCRIPTION FACTOR DAF-16/FOXO DURING THE RESCUE OF DEVELOPMENTAL ARRESTED LARVAE.
- 3:15 (24)** **M. C. Jenkins**, CHARACTERIZATION OF GIARDIN PROTEIN EXPRESSION DURING ENCYSTATION OF GIARDIA DUODENALIS TROPHOZOITES TO CYSTS.
- 3:30 (25)** **S. F. Mossallam**, PROPHYLACTIC EFFECT OF BOVINE LACTOFERRIN AGAINST ACUTE TOXOPLASMOSIS IN IMMUNOCOMPETENT AND IMMUNOSUPPRESSED MICE.

- 3:45 (26)** **S. Raiyawa**, R. Chawengkirttikul, IMMUNOBLOT PROFILES OF SERUM FROM PATIENTS WITH OCULAR ANGIOSTRONGYLIASIS AGAINST MALE AND FEMALE EXTRACTS.
- 4:00 (27)** **J. F. Hillyer**, J. G. King, ANTIMICROBIAL FUNCTION OF SESSILE HEMOCYTES IN THE MOSQUITO HEMOCOEL.
- 4:15 (28)** **A. Oladiran**, M. Belosevic, TRYPANOSOMA CARASSII CALRETICULIN BINDS HOST COMPLEMENT COMPONENT C1Q AND INHIBITS CLASSICAL COMPLEMENT PATHWAY-MEDIATED LYSIS.
- 4:30 (29)** **J. Hines**, P. M. Cupit, A. D. Aragon, C. Cunningham, MICROARRAY ANALYSES OF SCHISTOSOMA MANSONI TREATED WITH PRAZIQUANTEL.
- 4:45 (30)** **M. A. Forys**, P. C. Hanington, C. Lun, C. M. Adema, E. S. Loker, THREE DIFFERENT MODELS OF BIOMPHALARIA GLABRATA RESISTANCE TO TREMATODE INFECTION: COMMON UNDERLYING PATTERNS BASED ON MICROARRAY STUDIES.
- 5:00 (31)** **P. C. Hanington**, M. A. Forys, C. M. Adema, E. S. Loker, FUNCTIONAL CHARACTERIZATION OF FREP3: A FIBRINOGEN RELATED PROTEIN ASSOCIATED WITH TREMATODE RESISTANCE IN BIOMPHALARIA GLABRATA.

Tuesday Evening, 2010-06-22

07:00 - 10:00 PM **WELCOME RECEPTION** - Summit Ballroom

Wednesday Morning, 2010-06-23

7:00 - 8:30 **Editorial Board Breakfast, Rampart**

8:30-10:30 **ASP PRESIDENT'S SYMPOSIUM, Colorado Grand Ballroom**

Presiding: A. Kuris, Marine Institute, University of California, Santa Barabara

Theme: Recent Discoveries in the Biology of Schistosomes.

Time (Abstract No.)

8:30 **A. Kuris**, Introduction.

8:35 (32) **J. H. McKerrow**, BIOCHEMICAL AND IMMUNOLOGICAL INSIGHTS INTO SCHISTOSOME HOST INVASION AND DEVELOPMENT.

9:05 (33) **P. T. LoVerde**, ROLE OF SIGNALING IN SCHISTOSOME MALE-FEMALE INTERACTIONS.

9:35 (34) **E. S. Loker**, **S. V. Brant**, SCHISTOSOME DIVERSITY.

- 10:05** Closing comments and questions.
- 10:30-11:00** **COFFEE BREAK**
- 11:00-Noon** **STOLL STUNKARD LECTURE,**
Colorado Grand Ballroom
- Presiding:** J. Bristol, University of Texas, El Paso



Jane Carlton, NYU

Time (Abstract No.)

- 11:00** **M. Siddall**, Introduction of **Dr. Jane Carlton**, Department of Medical Parasitology, New York University.
- 11:05 (35)** **J. Carlton**. Parasite Genomics: The Next Generation.

Wednesday Afternoon, 2010-06-23

- 2:45-5:15** **STUDENT PAPER COMPETITION II, Salon E**

Presiding: G. Mayer, Virginia Commonwealth University, Richmond, VA
L.S. Roberts, Homestead, FL

Time (Abstract No.)

- 1:00 (36)** **O. Jones-Nelson**, D. Minchella, TRANSMISSION DYNAMICS OF TWO STRAINS OF SCHISTOSOMA MANSONI UTILIZING NOVEL HOSTS.
- 1:15 (37)** **C. Dold**, J. P. Cassidy, C. O'Farrelly, C. V. Holland, THE INNATE HEPATIC RESPONSE TO ASCARIS SUUM INFECTION IN THE MOUSE MODEL.
- 1:30 (38)** **J. J. Cielocha**, K. Jensen, INVESTIGATING THE VALIDITY OF TWO QUESTIONABLE LECANICEPHALIDEA GENERA: HEXACANALIS AND CEPHALOBOTHRUM.
- 1:45 (39)** **C. Martinez**, MOLECULAR BASIS FOR HOST SPECIFICITY IN AVIAN MALARIA.
- 2:00 (40)** **M. Pickering**, J. Caira, A CESTODE TEST OF NEWLY CIRCUMSCRIBED SPECIES BOUNDARIES IN THE SHARKS SQUALUS ACANTHIAS AND SQUALUS SUCKLEYI.
- 2:15 (41)** **E. DiBlasi**, K. Dittmar, PHYLOGENETIC RELATIONSHIPS OF ECTOPARASITIC MITES (ACARI: ERYTHRAEOIDEA) ON ARGENTINE WALKING STICKS (INSECTA: PHASMIDA).
- 2:30 (42)** **M. Pinto**, A PHYLOGENETIC RE-ASSESSMENT OF HYBRIDIZATION EVENTS AND SPECIES BOUNDARIES WITHIN TRYPANOSOMA CRUZI.

2:45 (43) **S. Jean**, CHARACTERIZATION OF NOVEL PEXEL-NEGATIVE *P. FALCIPARUM* EXPORTED PROTEIN, PFEXP250.

2:45-5:15 **LIFE CYCLES & EPIDEMIOLOGY, Salon D**

Presiding: B. Dixon, Health Canada, Ottawa, ON
 A. Donoghue, Donoghue Consulting, LLC, Fort Collins, CO

Time (Abstract No.)

1:00 (44) **F. O. Akinbo**, PREVALENCE OF MALARIA AND ANAEMIA AMONG HIV INFECTED.

1:15 (45) **K. J. Reinhard**, EMERGENCE AND CONTROL OF GEOHELMINTHS IN HISTORIC ALBANY, NY, 1640-1920.

1:30 (46) **D. M. Roellig**, TRYPANOSOMA CRUZI IN THE UNITED STATES: MOLECULAR AND BIOLOGICAL CHARACTERISTICS OF SYLVATIC ISOLATES.

1:45 (47) **M. G. Bolek**, H. R. Tracy, THE ROLE OF DAMSELFLIES (ODONATA: ZYGOPTERA) AS PARATENIC HOSTS IN THE TRANSMISSION OF HALIPEGUS ECCENTRICUS (DIGENEA: HEMIURIDAE) TO ANURANS.

2:00 (48) **J. T. Payne**, J. Gunderson, METACESTODES OF BAIT SHRIMP IN THE GULF OF MEXICO.

2:15 (49) **B. Dixon**, L. Parrington, A. Cook, F. Pollari, J. Farber, CYCLOSPORA CAYETANENSIS, CRYPTOSPORIDIUM SPP. AND GIARDIA DUODENALIS IN PACKAGED READY-TO-EAT SALADS AND LEAFY GREENS FROM A SENTINEL SITE IN ONTARIO, CANADA.

2:30 (50) **S. F. Mossallam**, DETECTION OF SOME INTESTINAL PROTOZOA IN COMMERCIAL FRESH JUICES.

2:45 (51) **Y. Cruz**, L. Aguirre-Macedo, V. M. Vidal-Martínez, PANULIRUS ARGUS (LATREILLE, 1804) FROM BATABANO GULF, CUBA, PARASITIZED BY CYMATOCARPUS SOLEARIS (BRACHYCOELIDAE-METACERCARIA).

3:00-3:30 **COFFEE BREAK**

3:30-5:00 **ASP STUDENTS' SYMPOSIUM, Salon F/G**

Presiding: M. Pickering, University of Connecticut, Storrs, CT.

Theme: Accessing parasites from the comfort of your own home: an introduction to online parasite databases.

IT - graphics - jigsaw puzzle is metacylon/model

Time (Abstract No.)

3:30 M. Pickering, INTRODUCTION.

3:40 (51) J. N. Caira, ON-LINE CESTODE DATABASE RESOURCES.

4:10 (52) J. C. Kissinger, EUPATHDB – A EUKARYOTIC PATHOGEN DATABASE OF PROTIST “OMICS” DATA.

4:40 Questions, Closing Remarks. M. Pickering

Wednesday Evening, 2010-06-23

6:00-7:00 Auction Preview.

7:00-9:00 21st ANNUAL ASP STUDENT AUCTION, Foothills

tapeworms.uconn.edu
http://EuPathDB.org
pick a question & develop the strategy using database

Thursday Morning, 2010-06-24

8:00-10:00 ASSOCIATE EDITORS SYMPOSIUM, Salon D

Presiding: C. P. Goater, University of Lethbridge, Lethbridge, AB, Canada

Time (Abstract No.)

8:00 (54) G. W. Esch, C. P. Goater, ASSOCIATE EDITORS SYMPOSIUM – 2010

8:20 (55) T. G. Geary, C. ELEGANS AS A MODEL ORGANISM FOR ANTHELMINTIC RESEARCH: PROSPECTS AND PITFALLS.

8:50 (56) A. W. Shostak, PUTTING PARASITISM IN PERSPECTIVE: LESSONS FROM LARVAL TAPEWORMS.

9:20 (57) K. Jensen, MORPHOLOGICAL AND MOLECULAR APPROACHES TOWARDS UNDERSTANDING ADULT AND LARVAL ELASMOBRANCH TAPEWORM DIVERSITY.

9:50 C. P. Goater. Questions for the panel, summary and closing remarks.

8:00-12:00 HOST- PARASITE INTERACTONS, Salon F

Presiding: A. Didyk, University of New Brunswick, Moncton, NB
L. Durden, Georgia Southern University, Statesboro, GA

Time (Abstract No.)

- 8:00 (58)** M. N. Saudi, A. M. Youssef, M. H. Badr, R. Y. Elbayaa, M. Z. El-azzouni, S. F. Mossallam, N. M. Baddour, M. M. Eissa, SYNTHESIS OF SUBSTITUTED PYRIMIDINEDIONE DERIVATIVES AS POTENTIAL SCHISTOSOMICIDAL AGENTS.
- 8:15 (59)** T. R. Platt, E. Graf, A. Kammrath, D. A. Zelmer, DIURNAL MIGRATION OF ECHINOSTOMA CAPRONI (DIGenea: ECHINOSTOMATIDAE) IN THE SMALL INTESTINE OF FEMALE ICR MICE.
- 8:30 (60)** D. Heins, E. Birden, J. Baker, HOST MORTALITY AND VARIABILITY IN EPIZOOTICS OF SCHISTOCEPHALUS SOLIDUS INFECTING THE THREESpine STICKLEBACK, GASTEROSTEUS ACULEATUS.
- 8:45 (61)** L. Durden, S. Cannon, SIZE CORRELATIONS BETWEEN SUCKING LICE AND THEIR HOSTS INCLUDING A TEST OF HARRISON'S RULE.
- 9:00 (62)** M. L. Kent, P. Rossignol, J. Ferguson, APOPHALLUS SP. METACERCARIAE IN COHO SALMON AND ASSOCIATIONS WITH OVER WINTER SURVIVAL IN A COASTAL RIVER IN OREGON.
- 9:15 (63)** J. Patonay, C. A. Hall, THE ENHANCED ABILITY OF THE TYPE IIA STRAIN OF TRYPANOSOMA CRUZI TO BE CONGENITALLY TRANSFERRED IS CORRELATED TO ITS ABILITY TO INFECT PLACENTAL TROPHOBLAST CELLS.
- 9:30 (64)** W. Bullard, C. Underhill, N. Acuff, C. A. Hall, EVALUATION OF THE ROLES OF COMPLEMENT AND TEMPERATURE IN AVIAN RESISTANCE TO TRYPANOSOMA CRUZI INFECTION.
- 9:45 (65)** D. Keeney, A. Szymaniak, R. Poulin, COMPARATIVE PHYLOGEOGRAPHY OF TWO NEW ZEALAND INTERTIDAL SNAILS AND THEIR TREMATODES
- 10:00** COFFEE BREAK
- 10:15 (66)** K. Dittmar, J. Mayberry, S. Morse, HOST-FINDING BEHAVIOR OF BAT FLIES (DIPTERA: HIPPOBOSCOIDEA).
- 10:30 (67)** G. Mayer, CHARACTERIZATION OF PFEXP-250, A NOVEL PLASMODIUM FALCIPARUM EXPORTED PROTEIN.
- 10:45 (68)** S. E. Bush, D. Kim, M. Reed, D. H. Clayton, EVOLUTION OF CRYPTIC COLORATION IN ECTOPARASITES.
- 11:00 (69)** A. Cruz-Reyes, PREVALENCE OF TOXOCARA SPP. EGGS IN SOME PUBLIC PARKS OF MEXICO CITY.

11:15 (70) **B. Hanelt**, E. S. Loker, TRANSCRIPTOME PROFILES OF INTRAMOLLUSCAN DEVELOPMENTAL STAGES OF SCHISTOSOMA MANSONI IN BIOMPHALARIA GLABRATA.

11:30 (71) **K. Bichoupan**, LOCOMOTION IN BULINUS TRUNCATUS IS ALTERED BY INFECTION WITH SCHISTOSOMA HAEMATOBIIUM.

11:45 (72) **M. E. Rowland**, J. Maloney, J. Huang, J. R. Dunn, R. Carpenter, T. F. Jones, A. C. Moncayo, SEROPREVALENCE OF RICKETTSIA IN CANINES FROM TENNESSEE.

8:30-11:45 **42nd COCCIDIOSIS CONFERENCE, Salon E**

Presiding: M.C. Jenkins, Animal Parasitic Diseases Laboratory, USDA
L. Xiao, CDC, Atlanta, GA

Time (Abstract No.)

8:30 (73) **Xin-zhuan Su**, MICROSATELLITE AND ITS APPLICATION IN GENETIC STUDIES OF MALARIA PARASITES.

9:00 (74) **M. E. Grigg**, N. Sundar, M. Miller, J. Wendte, P. Conrad and P. Keeling, VIRULENCE SHIFT IN A SEXUAL CLADE OF WILD TOXOPLASMA GONDII INFECTING MARINE MAMMALS.

9:30 (75) **L. Xiao**, GENETIC CHARACTERIZATIONS OF CRYPTOSPORIDIUM SPP. USING MICROSATELLITE AND MINISATELLITE MARKERS.

10:00 **COFFEE BREAK**

10:15 (76) **A. Tait**, A TALE OF TWO THEILERIAS: MICROSATELLITE GENOTYPING, WILD ANIMAL RESERVOIRS AND VACCINATION.

10:45 (77) **K. B. Miska**, STUDYING GENETIC DIVERSITY IN EIMERIA-PRESENT CHALLENGES AND FUTURE APPROACHES.

11:15 Roundtable discussion with all participants and audience members.

Thursday Afternoon, 2010-06-24

1:00-2:00 **ASP PRESIDENTIAL ADDRESS, Colorado Grand Ballroom**

Presiding: J. Oaks, University of Wisconsin-Madison, Madison, WI

1:00 Introduction of **Dr. George Cain**.
University of New Mexico, Department of Biology



George Cain, UNM

1:10 (78) **G. Cain**, Sanitizing Sewage Sludge: The Intersection of Parasitology, Civil Engineering and Public Health.

2:15-5:15 **CAUSES AND CONSEQUENCES OF HELMINTH INFECTIONS IN AMPHIBIANS SYMPOSIUM, Salon D**

Presiding: J. Koprivnikar, Brandon University, Canada
P. Johnson, University of Colorado, Boulder, CO
J. R. Rohr, University of South Florida

Time (Abstract No.)

2:15 **J. Koprivnikar, P. Johnson and J. R. Rohr**, Opening Remarks.

2:30 (79) **P. Johnson**, PARASITES AS METACOMMUNITIES: USING EXPERIMENTS AND MULTI-SCALE FIELD DATA TO UNDERSTAND VARIATION IN RIBEIROIA INFECTION AND AMPHIBIAN MALFORMATIONS.

2:45 (80) **D. J. Marcogliese**, K. C. King, A. D. Gendron, INTERACTIONS BETWEEN AGRICULTURAL ACTIVITY AND THE PARASITE FAUNA OF FROGS: NOT ALL PARASITES ARE EQUAL.

3:00 (81) **S. A. Orlofske**, R. C. Jadin, D. L. Preston, P. T.J. Johnson, PARASITE TRANSMISSION TO LARVAL AMPHIBIANS IS REDUCED BY ALTERNATIVE NATIVE AND NON-NATIVE HOSTS AND PREDATORS.

3:15 (82) **J. R. Rohr**, N. T. Halstead, J. T. Hoverman, T. McMahon, T. R. Raffel, J. M. Romansic, EFFECTS OF NATURAL AND ANTHROPOGENIC FACTORS ON AMPHIBIAN EXPOSURE AND SUSCEPTIBILITY TO TREMATODE INFECTIONS.

3:30 **COFFEE BREAK**

3:45 (83) **V. J. McKenzie**, LAND USE AND PATTERNS OF PARASITISM IN AMPHIBIAN HOSTS.

4:00 (84) **J. Koprivnikar**, INTERACTIONS OF ENVIRONMENTAL STRESSORS IMPACT SURVIVAL AND DEVELOPMENT OF PARASITIZED LARVAL AMPHIBIANS.

4:15 (85) **S. H. Paull**, P. T.J. Johnson, TEMPERATURE-DRIVEN CHANGES IN RIBEIROIA INFECTION: CONSEQUENCES FOR PARASITE TRANSMISSION AND AMPHIBIAN PATHOLOGY.

4:30 (86) **M. G. Bolek**, INTERACTIONS AMONG ABIOTIC FACTORS, AMPHIBIAN COMMUNITY STRUCTURE AND ADULT HELMINTH LIFE CYCLE STRATEGIES.

4:45 (87) **L. K. Belden**, METAGONIMOIDES OREGONENSIS (FAMILY: HETEROPHYIDAE) INFECTION IN AMPHIBIANS.

5:00 **J. Koprivnikar, P. Johnson and J. R. Rohr**, Closing remarks and informal discussion.

2:15-5:00 ECOLOGY I, Salon F

Presiding: N. Negovetich, St. Jude Children's Research Hospital, Memphis, TN
M. Zimmermann, Wake Forest University, Winston-Salem, NC

Time (Abstract No.)

2:15 (88) **M. Barger**, ECOLOGICAL EQUIVALENCE OF TWO TERRESTRIAL SNAILS AS SECOND INTERMEDIATE HOSTS OF *PANOPISTUS PRICEI* (TREMATODA).

2:30 (89) **C. L. Wall**, M. K. Jones, D. K. Cone, ECOLOGY OF *ANGUILLICOLOIDES CRASSUS* INFECTING THE AMERICAN EEL (*ANGUILLA ROSTRATA*) IN CAPE BRETON, NOVA SCOTIA.

2:45 (90) **I. F. Abou El Naga**, M. M. Eissa, S. F. Mossallam, S. I. Abd El-Halim, INHERITANCE OF *SCHISTOSOMA MANSONI* INFECTION INCOMPATIBILITY IN *BIOMPHALARIA ALEXANDRINA* SNAILS.

3:00 (91) **J. J. Daly Sr.**, TEMPERATURE QUOTIENT Q₁₀ AND TREMATODE LARVAL STAGES OF EMERGENCE, SURVIVAL, AND INFECTIVITY.

3:15 (92) **J. J. Daly Sr.**, GLOBAL WARMING MEETS PARASITOLOGY: OR NOT?

3:30 COFFEE BREAK

3:45 (93) **T. Sato**, K. Watanabe, N. Tokuchi, H. Kamauchi, Y. Harada, K. D. Lafferty, A NEMATOMORPH PARASITE EXPLAINS VARIATION IN TERRESTRIAL SUBSIDIES TO TROUT STREAMS IN JAPAN.

4:00 (94) **D. Clayton**, J. Malenke, ANTAGONISTIC EFFECTS OF COMPETITION AND CLIMATE MAINTAIN THE DIVERSITY OF AVIAN LICE.

4:15 (95) **D. Clayton**, EXPERIMENTAL DEMONSTRATION OF THE FITNESS COSTS OF AN INTRODUCED PARASITE OF DARWIN'S FINCHES.

4:30 (96) **J. T. Detwiler**, D. J. Minchella, THE TRANSMISSION DYNAMICS OF CLONE ARMIES AND BEYOND: USING GENETIC DIVERSITY TO EVINCE THE COLONIZATION ROUTES OF LARVAL PARASITES.

4:45 (97) **H. M. Archer**, EFFECTS OF FOREST FRAGMENTATION ON THE PREVALENCE OF THE BLOOD PARASITES IN BIRDS OF COSTA RICA.

2:15-5:00 TAXONOMY, SYSTEMATICS, PHYLOGENY, Salon E

Presiding: L. Camp, University of California-Davis, Davis, CA
S. Seville, University of Wyoming, Laramie, WY

Time (Abstract No.)

- 2:15** (98) **S. A. Nadler**, A. Bieberich, C. Pagan, S. Naem, D. J. Richardson, EVOLUTIONARY GENETICS AND GEOGRAPHIC VARIATION OF *BAYLISASCARIS* SPECIES IN NORTH AMERICA.
- 2:30** (99) **R. Carreno**, L. Tuhela, RECOVERY OF 6 SPECIES OF THE THELASTOMATOIDEA (NEMATODA: OXYURIDA) BELONGING TO 6 DIFFERENT GENERA IN A WILD POPULATION OF THE PEPPERED COCKROACH *ARCHIMANDRITA TESSELATA*.
- 2:45** (100) **A. Jimenez**, F. Catzefflis, S. L. Gardner, THE PARASITE ASSEMBLAGES OF DIDELPHID MARSUPIALS ARE CLADE SPECIFIC.
- 3:00** (101) **T. Ruhnke**, J. Caira, RE-DISCOVERY OF *PITHOPHORUS TETRAGLOBUS* AND *PHYLOBOTHRIUM* MINIMUM IN *RHYNCHOBATUS DJIDDENSIS*.
- 3:15** (102) **O. M. Amin**, UNUSUAL FEATURES IN THE ACANTHOCEPHALA AS REVEALED BY SEM AND TEM.
- 3:30** **COFFEE BREAK**
- 3:45** (103) **P. Hunt**, S. Cowen, T. Ruhnke, TAXONOMY OF ANTHOCEPHALUM SPECIES COLLECTED FROM SENEGAL, NORTHERN AUSTRALIA AND BORNEO.
- 4:00** (104) **F. Reyda**, HELMINTH DIVERSITY IN FISHES FROM OTSEGO LAKE, NEW YORK.
- 4:15** (105) **S. Brant**, E. S. Loker, DIVERSIFICATION OF SCHISTOSOMES: A SEARCH FOR PATTERNS.
- 4:30** (106) **R. E. Clopton**, T. J. Cook, J. J. Cielocha, REVISION OF *NUBENOCEPHALUS*: CANALIZATION, PLASTICITY, AND MORPHOMETRIC CHARACTER ANALYSIS IN GREGARINE TAXONOMY.
- 4:45** (107) **R. P. Scheibel**, F. A. Jiménez, EVALUATION OF SYNLOPHE AND BURSA AS TAXONOMIC CHARACTERS FOR VIANNAINAE (NEMATODA: TRICHOSTRONGYLOIDEA).

Thursday Evening, 2010-06-24

5:45 PM - 9:00 PM Evening at the Cheyenne Mountain Zoo

Friday Morning, 2010-06-25

8:30-10:30 Authors complete poster setup



8:00-10:30 ECOLOGY II, Salon F

Presiding: K. Lafferty, University of California-Santa Barbara, Santa Barbara, CA
T. Platt, St. Mary's College, Notre Dame, IN

Time (Abstract No.)

- 8:00** (108) **C. E. Matisz**, C. P. Goater, MIGRATION, SITE SELECTION, AND DEVELOPMENT OF ORNITHODIPLOSTOMUM SP. METACERCARIAE (DIGENEA:STRIGEOIDEA) IN FATHEAD MINNOWS (PIMEPHALES PROMELAS).
- 8:15** (109) **J. T. Detwiler**, C. D. Criscione, UNEXPECTED ASEXUAL REPRODUCTION IN A TAPEWORM.
- 8:30** (110) **L. Aguirre-Macedo**, V. M. Vidal-Martínez, R. F. Hechinger, A. M. Kuris, TEMPORAL PATTERNS IN TREMATODE COMMUNITIES OF THREE GASTROPOD SPECIES FROM CELESTÚN, YUCATAN, MEXICO.
- 8:45** (111) **M. Torchin**, O. Miura, LATITUDINAL PATTERNS OF PARASITISM IN CONGENERIC MUD SNAILS IN THE ATLANTIC AND PACIFIC OCEAN.
- 9:00** (112) **R. F. Hechinger**, A. C. Wood, A. M. Kuris, EUSOCIALITY IN A FLATWORM: TREMATODE PARTHENITAE FROM SOLDIER AND REPRODUCTIVE CASTES.
- 9:15** (113) **I. D. Buller**, D. J. Larson, S. A. Orlofske, P. T.J. Johnson, A LOADED TOAD: PARASITE COMMUNITIES OF JUVENILE WESTERN TOADS (ANAXYRUS BOREAS) FROM CALIFORNIA AND OREGON.
- 9:30** (114) **S. E. Bush**, PARASITE DIVERSITY IN CHINA: CANARY LICE IN A COAL MINE.
- 9:45** (115) **V. M. Vidal Martinez**, L. Aguirre-Macedo, J. McLaughlin, A. Jaramillo, J. C. Shaw, A. K. James, K. D. Lafferty, A. M. Kuris, DIGENEAN SPECIES RICHNESS AND COMPOSITION OF PALMYRA ATOLL FISHES, EASTERN INDO-PACIFIC.
- 10:00** (116) **B. L. Fredensborg**, A. Silva, L. Garza, DEFYING THE RED QUEEN? REPRODUCTIVE STRATEGIES AND PARASITE INFECTIONS IN ASEXUAL AND SEXUAL MOLLIES IN THE RIO GRANDE VALLEY.
- 10:15** (117) **K. A. Hopperstad**, B. L. Fredensborg, PARASITES AND HOST ENERGETICS: EFFECTS OF A PARASITIC CASTRATOR ON CONSUMPTION AND METABOLISM IN AN AQUATIC SNAIL HOST.

10:30 - Noon POSTERS, COFFEE, SNACKS, FOOTHILLS

All authors must stand with your posters from 10:30-Noon.

BIOCHEMISTRY, PHYSIOLOGY

- 118** **S. S. Ray**, MECHANISM OF REGULATION OF TRYPANOSOMA BRUCEI ACETYL-COA CARBOXYLASE, THE KEY ENZYME FOR INITIATION OF FATTY ACID SYNTHESIS.

CELL BIOLOGY

- 119 **M. K. Larson**, R. C. Bender, C. J. Bayne, SELECTION AND EVALUATION OF REFERENCE GENES FOR SYBR GREEN QPCR STUDIES WITH HEMOCYTES FROM THE PULMONATE SNAIL, *BIOMPHALARIA GLABRATA*.

ECOLOGY

- 120 **K. L. Sheehan**, INTESTINAL PARASITES OF THE DOUBLE-CRESTED CORMORANT (*PHALACROCORAX AURITUS*), FROM NORTHERN ALABAMA, USA.
- 121 **B. F. Sears**, EVIDENCE THAT CERCARIAE CHOOSE THE MOST SUSCEPTIBLE AMPHIBIAN HOST SPECIES AND INDIVIDUALS.

GENETICS & MOLECULAR BIOLOGY

- 122 **K. Caban**, A. Mousley, A. G. Maule, A. M. Espino, DEVELOPMENTAL EXPRESSION AND SILENCING OF SAPOSIN AND FERRITIN LIKE ANTIGENS IN *FASCIOLA HEPATICA*.

HOST PARASITE INTERACTIONS

- 123 **S. Redón**, N. Berthelemy-Okazaki, B. Georgiev, G. Vasileva, P. Nikolov, F. Hontoria, F. Amat, CESTODES AND THE SUCCESS OF AN INVASION: THE CASE OF THE AMERICAN BRINE SHRIMP *ARTEMIA FRANCISCANA* IN A MEDITERRANEAN SALTERN.
- 124 **W. S. Buzetti**, M. da Silva Tenorio, M. F. Alves, M. dos Santos Paixao, D. T. da Silva, K. I. Tasca, N. M. de Queiroz, J. de Assis, VISCERAL LEISHMANIASIS IN CAPTIVE FOX CERDOCYON THOUS (*CARNIVORA*, *CANIDAE*).
- 125 **M. Amri**, C. Touil-Boukoffa, EVASION STRATEGIES OF *ECHINOCOCCUS GRANULOSUS* TO TH1 HOST PROTECTIVE RESPONSE DURING HUMAN INFECTION.
- 126 **J. A. Ferguson**, K. Woodberry, C. M. Gillin, D. H. Jackson, J. L. Sanders, W. Madigan, R. J. Bildfell, M. L. Kent, CYLICOSPIRURA SPECIES (*NEMATODA*:*SPIROCERCIDAE*) AND STOMACH NODULES IN COUGARS (*PUMA CONCOLOR*) AND BOBCATS (*LYNX RUFUS*) IN OREGON.

IMMUNOLOGY

- 127 **M. Amri**, C. Touil-Boukoffa, INTERLEUKIN 17 STIMULATES MONONUCLEAR CELLS TO KILL *ECHINOCOCCUS GRANULOSUS* PROTOSCOLECES BY NO-DEPENDENT MECHANISM.
- 128 **O. Figueroa**, A. Espino, POSSIBLE ROLE FOR TOLL LIKE RECEPTORS IN INTERACTION OF *FASCIOLA HEPATICA* EXCRETORY/SECRETORY PRODUCTS WITH MONOCYTE CELLS.

LIFE CYCLES & EPIDEMIOLOGY

- 129 **S. Ganguly**, INCIDENCE AND DIAGNOSIS OF PARASITIC ETIOLOGIES AMONG A SURVEILLANCE STUDY GROUP FROM INFECTIOUS DISEASE HOSPITAL, KOLKATA, INDIA.

TAXONOMY, SYSTEMATICS, PHYLOGENY

- 130 **J. Forest**, A TAXONOMIC REVISION OF OCTOMACRUM.
- 131 **B. Dixon**, J. Tetro, M. Ndao, S. Bidawid, J. Farber, THE FOOD AND ENVIRONMENTAL PARASITOLOGY NETWORK (FEPN) IN CANADA.
- 132 **C. M. Wiles**, F. Reyda, THE GREGARINE PARASITES OF ODONATA IN OTSEGO COUNTY (NEW YORK).
- 133 **M. Bergman**, L. Hendricks, F. Reyda, HOST USE AND MORPHOLOGICAL VARIATION OF LEPTORHYNCHOIDES THECATUS FROM OTSEGO LAKE, NEW YORK.
- 134 **L. E. Camp**, C. Pagan, S. A. Nadler, MOLECULAR SYSTEMATICS OF GEOGRAPHIC ISOLATES OF DAUBAYLIA SPP.

Friday Afternoon, 2010-06-25

1:00 PM - 2:30 PM **ASP Awards and Business Meeting,
Colorado Grand Ballroom**

ASP AWARDS

CLARK P. READ MENTOR AWARD LECTURE

Presiding: C. Criscione, Texas A&M University, College Station, TX

Time (Abstract No.)

1:00 **M. Torchin, V. McKenzie.** Introduction of Dr. ARMAND KURIS, University of California, Santa Barbara.

1:10 (135) **A. Kuris.** CLARK P. READ MENTOR AWARD LECTURE.



Armand Kuris, UCSB

**ASHTON CUCKLER
NEW INVESTIGATOR AWARD**

Presiding: C. Davis, Western Kentucky University, Bowling Green, KY

The recipient of the 2010 New Investigator Award
is **Dr. DAWN ROELLIG**, CDC, Atlanta, GA.



Dawn Roellig, CDC

WILLIS A. REID JR., STUDENT RESEARCH GRANT AWARDS

Presiding: L. Couch, University of New Mexico, Albuquerque, NM