

Oral Presentations - Session I - Morning

Clements Auditorium

Ecology

9:10 Tammy Silva, Stonehill College

POPULATION FRAGMENTATION AND GENETIC DIFFERENTIATION IN REDBACK SALAMANDERS

9:30 Amber Churchill, Stonehill College

PHYSIOLOGICAL AND MORPHOLOGICAL TRADEOFFS ALONG FERN FERTILE/STERILE CIMORPHISM GRADIENT

9:50 Jeffrey Yelle, Plymouth State University

HIERARCHY OF TIDAL CUES IN THE AMERICAN HORSESHOE CRAB, *LIMULUS POLYPHEMUS*

10:10 Robert Wardwell, Colby-Sawyer College

THE EFFECTS OF ROAD DEICING: CHANGES IN WATER CHEMISTRY AND BIOTA IN THE LAKE SUNAPEE WATERSHED

Oral Presentations - Session I - Morning

Curtis L. Ivey 201

Molecular Biology

9:10 Deepali Gotur, University of Massachusetts Lowell

HYPOLOBULATION OF NEUTROPHILS IN SEVERE PELGER-HUET ANOMALY CAUSES DEFECTIVE CHEMOTAXIS

9:30 Jeannie Baca, Simmons College

BIOCHEMICAL CHARACTERIZATION OF THE ASSOCIATION OF REOVIRUS $\mu 2/\mu$ NS COMPLEXES WITH MICROTUBULES

9:50 Kierra Herrick, University of Massachusetts Lowell

USING THE YEAST-TWO-HYBRID SYSTEM FOR THE DETECTION OF PROTEIN-PROTEIN INTERACTIONS BETWEEN PBCV-1-CODED PROTEINS

10:10 Mario Nimali, University of Massachusetts Lowell

EXTREME POLYMORPHISM; POLYGLUTAMINE LENGTH VARIABILITY AND HETEROZYGOSITY IN *DROSOPHILA* TRANSCRIPTION FACTORS

Oral Presentations - Session I - Morning

Curtis L. Ivey 202

Organismal Biology

9:10 Aleshia Carlsen, Colby-Sawyer College

**SALINE SOLUTIONS EFFECTIVENESS IN KILLING *FUSARIUM KERATITIS*
AND *ACANTHAMOEBA KERATITIS***

9:30 Nicole Cronan

**THE EFFECTS OF BRYOSTATIN ON THE RETENTION OF DIRECTIONAL
PREFERENCE IN PLANARIA (*Dugesia tigrina*)**

9:50 Todd Ryder

DETERMINATION OF PLANARIA SENSITIVITY TO LIGHT

10:10 April Culannay, Suffolk University

**ESCAPE VELOCITY OF THE LIMPET *TECTURA TESTUDINALIS* IN
REPOSE TO THE PREDATORS *ASTERIAS VULGARIS* AND *THAIS
LAPILLUS***

Oral Presentations - Session II - Afternoon

Clements Auditorium

Cell Biology

2:30 Susan Mazalan, Simmons College

CDK5 MEDIATES THE ALTERATION IN TRANSMITTER RELEASE CAUSED BY BETA AMYLOID PEPTIDE

2:50 Maureen Tong, University of Massachusetts Boston

INVESTIGATING THE *IN VIVO* FUNCTIONS OF β -ARRESTIN KURTZ IN DROSOPHILA

3:10 Won Hee Kim, University of Massachusetts Lowell

TYR18-PHOSPHORYLATION OF OVEREXPRESSED HUMAN TAU PROTEIN CORRELATES WITH LOCAL DEGENERATIVE CHANGES IN AN IN SITU CELLULAR MODEL OF HUMAN TAUOPATHY

3:30 Jessica Crisci, University of Massachusetts Lowell

EP-CAM AND ITS USE AS AN ANTIGEN FOR TARGETED CANCER THERAPY

Oral Presentations - Session II - Afternoon

Curtis L. Ivey 201

Physiology/Developmental Biology

2:30 Ambar Ahmed, University of Massachusetts Lowell

**PSEUDO-DEPHOSPHORYLATION OF MULTIPLE SITES ON HUMAN TAU
PROTEIN AFFECTS MICROTUBULE STABILITY BUT NOT
DEGENERATION IN NEURONS UNDERGOING TAU-INDUCED
DEGENERATION *IN SITU***

2:50 Tony Soto, Colby-Sawyer College

**THE EFFECTS OF AEROBIC EXERCISE ON PREDICTED VO_{2max} OF
HEALTHY MALE AND FEMALE STUDENTS OF COLBY-SAWYER
COLLEGE**

3:10 Jason Beckta, Keene State College

**EFFECTS OF EXPOSURE TO SUB-LETHAL CONCENTRATIONS OF
PESTICIDES ON WORLDWIDE DECLINE OF AMPHIBIAN POPULATIONS**

3:30 Angela QingQing Qu, Simmons College

**CDK5 MEDIATES THE ALTERATION IN TRANSMITTER RELEASE CAUSED
BY BETA AMYLOID PEPTIDE**

Oral Presentations - Session II - Afternoon

Curtis L. Ivey 202

Organismal Biology/Ecology

2:30 Elisabeth Novak, Colby-Sawyer College

**THE EFFICACY AND EFFICENCY OF TEA TREE OIL AS A BROADBAND
ANTIMICROBIAL VERSUS TRADITIONAL CHEMICAL CLEANERS ON
COMMERICAL BATHROOM SURFACES**

2:50 Zachary Lamas, Colby-Sawyer College

MICROBIAL SOIL HEALTH IN RELATION TO CHEMICAL APPLICATIONS

3:10 Chris Huyler, Colby-Sawyer College

**WILL PHOSPHORUS-BINDING CALCIUM CHLORIDE INHIBIT THE
GROWTH OF VARIABLE-LEAF MILFOIL?**