

Jane Lew (HHMI Scholar)

DNA Deamination Catalyzed by Adenosine Deaminase that Acts on RNA and Cloning Overexpression and Purification of a tRNA Editing Enzyme

Shih-dun Liu (HHMI Researcher)

Effects of the Protein Kinase C Activator Bryostatin on Dendritic Spine Density in Mouse Hippocampus and Visual Cortex *in vivo* and *in vitro*

Lindsay McCullough (NSF-REU)

Developing Methods for Long-term Observation of Motor Movement

Donald Mignogna (HHMI Researcher)

Overexpression and Purification of *S. Cerevisiae* ADAT

Bassem Mikhael (HHMI Researcher)

Randomized Phase III Study of Four Weeks High Dose Interferon Alpha-2B in Stage II-A Melanoma Patients

Joshua Millan (USDA)

Signaling Pathways to Tissue Morphogenesis

Charles Miller (HHMI Scholar)

Binding of PNAs to Specific DNA and RNA Targets

Joshua Patent (HHMI Researcher)

Operational Stability of Fe-TAML Catalyst

Michelle Peck (NSF-REU)

Development of A Disulfide Bond-Free FAP, HL4-MG (MG13), for use as an Intracellular Biosensor

Riddhi Roy (HHMI Researcher)

Heterogenization of FeTAMLs

Orr Rozov (HHMI Researcher)

Understanding Cortical Actin Dynamics in Syncytial Drosophila Embryos

Rachel Stamateris (NSF-REU)

The Role of Wnt Signaling Components in the Polarized Degradation of β -catenin in the Sea Urchin Embryo (*Strongylocentrotus purpuratus*)

Swati Varshney (HHMI Researcher)

“Living” Polyfluorenes for Polymer Light-Emitting Diodes

Amy Wang (HHMI Scholar)

Structural Characterization of ADAR Substrates: the R/G and Q/R Editing Sites of the Glutamate Receptor

Kevin Watkins (NSF-REU)

Gene Function Analysis in *Candida albicans* Using the UAU1 Cassette

Yuriy Zubovski (HHMI Researcher)

Effects of the Bioflavonoids Genistein and Daidzein on Interactions and Properties of Lipid Membranes

use. *In Vitro* Evolution of Multimeric Nanoenzymes for 19F MRI with Bifunctional Properties: Testing the Hypothesis that Propylchloran and Sulfonamides Play a Key Role in
 y Related Species, Formation of Novel Protein Purification Techniques, Evolutionary History,
 or Long Term Observation of Motor Movement, Elimination of the Disulfide Bonds in MG13 in Order for it to Function as an Intracellular Biosensor, The Role of Wnt
 in the Sea Urchin Embryo (Strongylocentrotus purpuratus), Gene Function Analysis in Candida albicans Using the UAU1 Cassette, Expression of Activation-Induced Cytidine
 deaminase in Sea Urchin Embryo, Identification of Evolutionary Changes in Transcriptional Regulation of the Srsf9 Gene that Allow Lateral Selenoprotein in Sea Urchins, Selenol and
 methylase, Crystallization of the Human Adenosine Deaminase, That Acts on RNA,
 tation Products, Structure Function Analysis of Adenosine Deaminases that Act on RNA, Crystallization of a Truncated Form bound to a synthesized RNA Substrate, The Effect
 sification of Mutations in DNA caused by Adenosine Deaminase, That Acts on RNA and Activation-Induced Cytidine Deaminase (AID); X-Ray
 dehydrogenase Acids
 to Determining the Mechanism of Adenosine Deaminase that acts on RNA, Molecular Mechanism of Human Deamination Enzymes
 rotein J β and the Fluorogen Dimethylmale Red (DMR), Signaling Pathways to Tissue Morphogenesis, Genetic Polymorphisms and
 mon Hemoglobin and the Roles of Distal Heme Pocket Substitutions, Development of Visual Cortex, Translation Hydration of
 ions, The Development of Single Chain Variable Fragments that Bind the Dye Spirocyran and Release it upon exposure
 e Endocytic Disruptors in the
 terminal
 ence Properties of Dyx-2, Reversible Swelling of Magnetite in Thiolate-Protected Au25 Superatoms,
 very Rabi, Cyclone - Neutralizing Cells for Local Control of Inflammation, Isolation of Cardiac Stem Cells, Biomimetic
 nage Transfer via Inorganic Hybrid Peptide Nucleic Acid Microcapsules, Using Synthetic Lethal Screens to Determine the
 etion of Recusive Splicing in the Friedreich Ataxia Receptor of Drosophila, Chemogenetic Analysis of the Hepatitis Delta
 ing Peptide Nucleic Acid, Thermodynamics of Peptide Nucleic Acid Binding, The Assembly Pathway of
 TAML Catalysts: Breakdown Analysis, Coarse Review: Decoys, Antisense, and Visual Irrigation for
 splicing, Mechanism in Dopamine D3 Receptor (DRD3) Protein RNA,
 a Family, Alternative Splicing of
 ant of the BKR4 Protein, Binding Polymers with Peptide and Nucleic Acid Linkages for Application in Polymer
 Deacid Breast Cancer Cells, Structure and Interactions of Peptides in Membranes, Changes in Psa Expression throughout
 dices than Phosphorylation and Salt-bridges
 dices among Closely Related Species, Formation of Novel Protein Purification Techniques, Evolutionary History,
 nd Regulation of polyketide synthesis in *Edinobacterium*, Developing Methods for Long Term Observation of Motor Movement,
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 (glycogenin purpuratus), Gene Function Analysis in *Candida albicans* Using the UAU1 Cassette, Expression of Activation-Induced
 splicing, Delta Virus Ribozyme,
 a Allow Lateral Selenoproteins in Sea Urchins, A Structural and Functional Comparison of Human Hemoglobin with Mammals
 that Act on RNA, Expression and Purification of Activation-Induced Cytidine Deaminase in E. Coli Using Fusion Proteins, Structure Function Analysis of Adenosine
 1 Adenosine Deaminase That Acts on RNA and Activation-Induced Cytidine Deaminase (AID); X-Ray Crystallography of Drosophila Adenosine Deaminase That Acts on
 2 RNA Substrate, The Effect of Adenosine Polypose: Cell Description on
 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



Tuesday, July 28, 2009
 3 p.m.
 Mellon Institute
 Social & Conference Rooms

PARTICIPANTS

Karen Akasaka (HHMI Researcher)

Exploring the Role of CRMPs in the Development of the Visual System

Turi Alcoser, Celia Ludwinski and Lillian Michalek (SRI)

Correlation of Enzymatic Activity and Structure in Glutathione Transferase

Raquel Castañeda Avila (USDA)

Characterization of Directed Evolution Clones of the Fluorogen Activating Protein J6 and the Fluorogen Dimethylindole Red (DIR)

Tiffany Barth (HHMI Researcher)

Complex Fluids Based on Methacrylated Hyaluronic Acid

Santosh Bhavani (HHMI Researcher)

Automated Learning of Generative Models for Protein Subcellular Locations

Katherine Bonnington and Mike Khan (HHMI Scholars)

Purification of Activation Induced Cytidine Deaminase Using Fusion Proteins

Cortlyn Brown (NSF-REU)

In Vitro Evaluation of Multimodal Nanoemulsions for ¹⁹F MRI with Biosensing Properties

Katherine Chen (HHMI Researcher)

Site-directed Cysteine Mutagenesis of the K7 scFv

Alyssa Chinen (HHMI Researcher)

Selection of an scFv to Bind to and Activate the Fluorogenic Dye TO1-2p-Cy5

Sruthi Reddy Chintakunta (HHMI Researcher)

Receptive Field Properties in Single Neurons in Primary Visual Cortex

Danica Chiu (HHMI Researcher)

Endocrine Disruptors in the Environment and the Effects on Cancer

Jason Cho (HHMI Researcher)

Advanced Ceramics Research

Suhl A Choi (HHMI Researcher)

Atmospheric Pressure Thermal Dissociation of Protein Using Electrospray Ionization Mass Spectrometry

Lianne Cohen, David Dobrowolski and Gabe Ratliff (SRI)

Nuclear Magnetic Resonance Spectroscopy of Fluorescent Dye-Binding Short Chain Variable Fragments

Jeffrey Dahlen (HHMI Researcher)

Morphological Analysis of Activity Reduced Adult Born Neurons in the Mouse Main Olfactory Bulb

Richard Decal (NSF-REU)

Salt Bridges and Phosphorylation Are Not Essential for APC2 Function in the Destruction Complex

Lynley Doonan and Anna Park (HHMI Researchers)

Using Genetics to Understand the Role of the DEAD-box Protein DRS1 in Ribosome Assembly

Alexander Edelman and Jacob Mohin (HHMI Researchers)

Novel Techniques for Printed Electronics: Organic and Inorganic Components

Alex Ellison (NSF-REU)

Large-scale Conservation Analysis among Closely Related Species

Molly Evans (HHMI Scholar)

Chemo-genetic Analysis of the Hepatitis Delta Virus Ribozyme

Cameron Exner (HHMI Scholar)

Elucidation of Evolutionary Changes in Transcriptional Regulation of the Sm50 Gene Allowing Larval Skeletogenesis in Sea Urchins

Laura Filliger, David Huang and Janet Lee (SRI)

Investigation of the Interdependence among Ribosome Assembly Factors and their Effects on the Ribosomal Exit Tunnel Structure

Adam Foote (HHMI Researcher)

Determining the Crystal Structure of GRASP55

Priyamvada Gupta (HHMI Scholar)

A Biophysical-Biochemical Comparison of Hemoglobin from Mammoth, Asian Elephant and Human

Siping He, Anna Romanova and Maria Zakhalyavko (SRI)

Investigating the Role of Three GTPase Assembly Factors in the 60S Ribosome Subunit Assembly Pathway

Andre Hersan (HHMI Scholar)

Structural Analysis of the Human Adenosine Deaminase that Acts on RNA via X-Ray Crystallography

James Hopkins (NSF-REU)

Development of Novel Protein Purification Techniques

Karen Kormuth (NSF-REU)

Evolutionary History of Polyketide Synthase in *Asterina Miniata*

Sefa Kploanyi (HHMI Scholar)

Structure-function Analysis of ADARs: Crystallization of a Truncated Form Bound to a Synthesized RNA Substrate

Kellie Kravarik (HHMI Scholar)

The Effect of Adenomatous Polyposis Coli Disruption on Drosophila Pupal Wing Development

Cyrus Larijani (HHMI Researcher)

Methods of Determining LGN Layer-specific Proteins