

***The Indianapolis Project SEED Presents:
2010 Summer Research Poster Session
Van Nuys Medical Sciences Building Atrium*
Thursday the 29th of July 4:30-7:30 P.M.***

Poster Session at 4:30 in Atrium, Media Presentation & Awards Ceremony at 6:00pm in Basement Auditorium B-26

The American Chemical Society (ACS) Indiana Section

With support from the

Indiana Clinical and Translational Sciences Institute (CTSI)

IUPUI School of Science

Indiana University School of Medicine

Indiana University School of Education

Eli Lilly & Co.

and the

American Institute of Toxicology (AIT Laboratories)

Cordially invites all public:

High School Summer Science Research Internship Program

Public Research Poster Presentation

and Awards Ceremony

The Van Nuys Medical Sciences Building is at 635 Barnhill Drive. Guests parking available at the Vermont Street garage on Vermont between Barnhill and University. See campus map at www.iupui.edu/map

All inquiries should be addressed to indyprojectseed@yahoo.com ; Additional program information available at:

www.indyprojectseed.org

Student/Project

Mentors

Yovanie Biggerstaff

Southport High School '11

Determining the Concentrations of Drug Accumulation in the Skeleton

Matthew Allen, PhD.

IU School of Medicine

Lilian Plotkin, PhD.

IU School of Medicine

Jeff Benson

Research Technician

Nico Bivi

Post-doctoral Fellow

Belli Bonhomme

Ben Davis High School '11

Stem Cells and Nanomaterial for Bone Regeneration

Jiliang Li, PhD.

IUPUI School of Science

Iman Yousif

Undergraduate Student

Michelle Archie

Undergraduate Student

Jacob Burton-Edwards

Hamilton Southeastern High School '11

Role of IK Channels in Control of Coronary Blood Flow

Jonathan Tune , PhD.

IU School of Medicine

Zachary Berwick

Graduate Student

Nandita Chittajallu

Pike High School '11

The role of NADPH oxidase in age-related collateral growth impairment

Steven Miller, PhD.

IU School of Medicine

Gabriel Gruionu

Post-Doctoral Fellow

Bruce Henry

Research Assistant

Vinayak Gupta

Carmel High School '11

Effects of Estrogens and Ceramide Synthesis Inhibitors on Cultured Hypoxic Lung Endothelial Cells

Tim Lahm, MD

IU School of Medicine

Marjorie Albrecht

Research Technician

David Gurecki

Heron High School '11

Critical Chemistry in the Industrial Setting

Tim Dahn

AIT Laboratories

Joanna Askwith

AIT Laboratories

Brian Harvey

Cathedral High School '12

Pharmacological and Molecular mechanisms of orexin-induced anxiety.

William A. Truitt, PhD.

IU School of Medicine

Amy Dietrich

Research Associate

Pam Minick

Research Associate

Iraj Hassan

North Central High School '10

Mechanistic characterization of small molecule inhibitor of APE1's repair activity

Millie M. Georgiadis, PhD.

IU School of Medicine

Sarah Delaplane

Research Technician

Rachel Hawn

Warren Central High School '12

Targeted Gene Therapy for Colorectal Cancer

H. Jayaram, PhD.

VA Medical Center

IU School of Medicine

Praveen Kusumanchi, PhD.

Post-doctoral Fellow

Sai Shruthi Musunuri

Research Assistant

Jenaya Hooks

Arsenal Technical High School '10

Chemical Zoning in Crystals from a Magma Plumbing System

Andrew Barth, PhD.

IUPUI School of Science

Sarah Douglas

Graduate Student

Corey Johnson

Southport High School '10

The Grease You Eat: Mass Spectrometric Analysis of the Lipid Composition in Foods

Robert Minto, PhD.

IUPUI School of Science

Michael Shephard

Graduate Student

Amanuel Kibrom

Pike High School '12

Arterial Reactivity to Vasoactive Oxidants May Play a Role in Development of Hypertension Associated with Obesity and Diabetes

C. Subah Packer, PhD.

IU School of Medicine

Jamie Johnson

Medical Student

Lakenvia Ledford

Lawrence North High School '11

Computer Applications to Medical Research: Mining Text in Journals Linking Molecules for Potential Cures.

Mathew Palakal, PhD.

I U School of Informatics

Meeta Pradhan, PhD.

I U School of Informatics

Kevin Line

Irving Preparatory Academy '11

Understanding the Factors Governing the Flux of Explosive Vapors from Containers

John Goodpaster, PhD.

IUPUI School of Science

Neoshia Roemer

Undergraduate Student

Jose Llamas

George Washington High School '11

Zebrafish FAS Model

James A. Marrs, PhD.

IUPUI School of Science

Jessany Maldonado

Warren Central High School '11

Metabolic Studies of Cultured Cells by NMR

Horia Petrache, PhD.

IUPUI School of Science

Bruce Ray, PhD.

IUPUI School of Science

Gary Rosenberg, PhD.

IUPUI School of Science

Andrew Fraser

Undergraduate Student

Emily Mason

Avon High School '10

Chronic Infections in the Lungs of Cystic Fibrosis Individuals by the Bacterium *P. aeruginosa*

Gregory Anderson, PhD.

IUPUI School of Science

Ngun HleiTial Nawlthang

Southport High School '11

Zebrafish FAS Model

James A. Marrs

IUPUI School of Science

Kwame Newton

University High School '11

Measurements of Interaction Between Glycoproteins and Lipid Bilayers

Horia Petrache, PhD.

IUPUI School of Science

Bruce Ray, PhD.

IUPUI School of Science

Amanda Tallman

Graduate Student

Andrew Fraser

Undergraduate Student

Calvin Nguyen

Avon High School '11

Mechanisms of Amphibian Limb Regeneration

David Stocum, PhD.

IUPUI School of Science

Maya Palakal

Undergraduate Student

Xiaoping Chen

Marisa Peredo

Warren Central High School '12

Regulation of Betaine/GABA Transporter in Kidney Cells

Stephen Kempson, PhD.

IU School of Medicine

Sashana Gordon

Graduate Student

Bailey Anderson

Undergraduate Student

Brent Rogers

Southport High School '11

Computer-Aided Molecular Design of Anti-Cancer Agents

Samy Meroueh, PhD.

IU School of Medicine

Na'il Siddeeq

Arsenal Technical High School '12

Role of Type VI Collagen in the Pathogenesis of Emphysema

Hua-Chen Chang, PhD.

IUPUI School of Science

Ling Han

Research Technician

Ivan Lupov

Graduate Student

Larry Voiles

Graduate Student

Kevin Song

Carmel High School '11

Bionanotechnology: Design of Highly Photoluminescent Nanocrystals (Quantum Dots) as Biological/Biomedical Imaging Probes

Christoph Naumann, PhD.

IUPUI School of Science

Dan Minner

Graduate Student

Amanda Siegel

Graduate Student

Trishya Srinivasan

International School of Indiana '11

Role of c-mpl signaling in Osteoblast Proliferation and Differentiation

Melissa Kacena, PhD.

IU School of Medicine

Sanjeev Balamohan

Medical Student

Jenna Baughman

Undergraduate Student

Yinghua Cheng

Research Associate

Hlawn Tlem

Southport High School '11

Cardiovascular Disease in ZDSD, a new Rodent Model of Metabolic Syndrome

C. Subah Packer, PhD.

IU School of Medicine

Jamie Johnson

Medical Student

Shelby Turner

Southport High School '11

The impact of age-related oxidant stress on mechanisms mediating nitric oxide-dependent collateral growth

Steven Miller, PhD.

IU School of Medicine

Gabriel Gruionu

Post-Doctoral Fellow

Bruce Henry

Research Assistant

Erica Walsh

The Indiana Academy '11

Stem Cells and Nanomaterial for Bone Regeneration

Jiliang Li, PhD.

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ABOUT INDIANAPOLIS PROJECT SEED: Project SEED was established in 1968 by the American Chemical Society (ACS) to encourage high school students to explore careers in Science. The Indianapolis program was started by Professor Edwin Harper (retired) of the Indiana University School of Medicine in 1972 as an educational outreach program of the Indiana Section of the ACS.

With administrative support and funding from the IUPUI School of Science, this all volunteer program continues to thrive on the campus of IUPUI and the IU School of Medicine with additional support from the I U School of Education, corporate, public and private donors.

The 2010 program was substantially supported by the Indiana Clinical and Translational Sciences Institute (CTSI) in partnership with Dr. Kim Nguyen, LSAMP director for the School of Education. The Indiana CTSI is funded in part by an award from the National Institutes of Health (NIH) and operates as a partnership of the IU School of Medicine, IU-Bloomington, IUPUI, Purdue University and the University of Notre Dame. The overarching goal of the Indiana CTSI is to improve the health of people throughout the state of Indiana by supporting research, education and community outreach.

The Project SEED Committee would like to thank the dedicated volunteer team of research scientists who invest their time in the mentorship of these students, the science leaders of our future.