

Commencement



2007

COLLEGE OF
Biological Sciences
UNIVERSITY OF MINNESOTA

THE COLLEGE OF BIOLOGICAL SCIENCES

The mission of the College of Biological Sciences is to advance knowledge of the mechanisms of life through breakthrough discoveries and to prepare today's students to create the biology of tomorrow. CBS provides students with a world of opportunities—from molecules to ecosystems—to improve human health, develop renewable resources for energy and materials, enhance agriculture and restore the environment. The College is committed to working with colleagues within the university, and with constituents in the community, government and industry to advance knowledge of biological sciences and to apply that knowledge to improve the quality of life for people in Minnesota, the nation and the world.

SIGN LANGUAGE INTERPRETER

A sign language interpreter will be located on the stage.

CELL PHONES AND PAGERS

Please turn off all cell phone and pager ringers before the ceremony begins.

PHOTOGRAPHS

For your convenience, we have made arrangements with a professional photographer to take a picture of each student crossing the stage. This service will enable each student to have a photograph of this special event. Family members and friends are encouraged to remain in their seats and enjoy the ceremony. However, photographs may be taken from the orchestra pit. Please do not block the ramp or the aisles. The graduates need to proceed down the ramp and back to their seats in a timely manner. Thank you for your cooperation. Although care is taken to ensure the accuracy of the information presented here, there may be unintended errors or changes without notice. This is not an official University of Minnesota graduation list.

PROGRAM

ACADEMIC PROCESSION

Frank Barnwell, Ph.D.

Mace Bearer

Dr. Barnwell, professor of Ecology, Evolution and Behavior (EEB), received his Ph.D. from Northwestern University. He taught for three years at the University of Chicago before joining the faculty of the University of Minnesota in 1970. His studies of marine organisms have taken him to research stations around the world, and he is an award-winning teacher. Dr. Barnwell has provided leadership for CBS as EEB Department Head for eight years and Director of the Honors Program for more than 20.

FACULTY MARSHALLS

John S. Anderson, Ph.D.

Department of Genetics, Cell Biology and Development

Iris Charvat, Ph.D.

Department of Plant Biology

Sandy Armstrong, Ph.D.

Department of Microbiology

Paul Siliciano, Ph.D.

Department of Biochemistry, Molecular Biology and Biophysics

Dale Branton, Ph.D.

Department of Neuroscience

Jane Phillips, M.S.

Biology Program

David Stephens, Ph.D.

Department of Ecology, Evolution and Behavior

WELCOME

Robert Elde, Ph.D.

Dean, College of Biological Sciences

Robert Elde was named Dean of the University of Minnesota's College of Biological Sciences in 1995. A 1969 honors graduate of North Park College in Chicago with a bachelor's degree in biology and chemistry, he received his Ph.D. in anatomy in 1974 from the University of Minnesota. He joined the University faculty in 1977 and is the J. B. Johnston Land Grant Professor of Neuroscience in the Department of Neuroscience.

STUDENT ADDRESSES

"A Beautiful Day"

Andrew J. Manning

Andrew Manning was born and raised in Minneapolis, Minnesota. He is the only child of parents Bruce and Julie Manning, to whom he credits his work ethic and character. Andrew is a fourth-generation graduate of the University of Minnesota, and takes great pride in the school. While at the University he has been coordinator of the Admissions Ambassadors, and vice president of the College of Biological Sciences Student Board among other leadership endeavors. Following graduation, he plans to continue his education in biochemistry while pursuing a Ph.D. at Duke University.

AWARDS FOR TEACHING EXCELLENCE

Presented by Dean Robert Elde

Stanley Dagley-Samuel Kirkwood Undergraduate Education Award Paul Siliciano, Ph.D.

Department of Biochemistry, Molecular Biology and Biophysics

Dr. Siliciano is the Director of Undergraduate Studies and Associate Department Head for the Department of Biochemistry, Molecular Biology and Biophysics in the College of Biological Sciences. He received his Ph.D. in biology from the University of Pennsylvania in 1985 and did a postdoctoral fellowship in biochemistry at the University of California, San Francisco. He joined the University of Minnesota faculty in 1990.

John S. Anderson Academic Leadership Award

Stuart Goldstein, Ph.D.

Department of Genetics, Cell Biology and Development

Dr. Goldstein earned his Ph.D. in cell biology in 1968 from the California Institute of Technology. He teaches physiology and introductory biology, and serves as chair for several committees for University of Minnesota students. His research focuses on biophysical aspects of the swimming motion of bacteria.

TEACHING ASSISTANT AWARDS

Laura Antos *Biochemistry, Molecular Biology and Biophysics*

Ms. Lantos' students describe her as attentive, patient and always ready and willing to help them understand complex subject matter. As a teaching assistant, she consistently communicates concepts clearly and helps her students think through problems.

Paul Grimsrud *Biochemistry, Molecular Biology and Biophysics*

Students in Mr. Grimsrud's lab consider him extremely fair, clear and willing to go above and beyond to help students achieve. They note his obvious passion for and knowledge of the subject.

Karl Gruber *Ecology, Evolution and Behavior*

One student gives Mr. Gruber credit for teaching her everything she knows about basic lab technique. Other students are equally effusive in praising his enthusiasm, availability, friendliness and ability to make connections between concepts in a fun and engaging way.

Nils Wubbels *Biology*

Mr. Wubbels' students point to his excellent communication skills, obvious preparation and ability to spark thoughtful group discussions as a few of the ways he brings out the best in those enrolled in his lab.

AWARDS FOR STUDENT LEADERSHIP

The President's Student Leadership and Service Award

Christie Berkseth, *Biology*

Susan Rashid, *Biology*

2007 Rhodes Scholar

Katie Lee, *Biochemistry*

Beckman Scholars Award

Naomi Kreamer, *Biochemistry*

Phi Beta Kappa

Karen Krueger, *Biochemistry*

Katie Lee, *Biochemistry*

Emily Mecklenburg, *Biochemistry*

Elsbeth Ronnander, *Biochemistry*

Joseph Foley, *Biology*

Timothy Glendenning, *Biology*

Keegan Hasselmann, *Biology*

David Hernandez, *Biology*

Megan Schott, *Biology*

Katherine Bricceno, *Genetics, Cell Biology and Development*

Joana Perdigao, *Genetics, Cell Biology and Development*

Oksana Goldman, *Microbiology*

Brittani Conway, *Neuroscience*

Alexander Hartmann, *Neuroscience*

Sonya Polson, *Neuroscience*

Kelly Sovell, *Neuroscience*

Tom Burnett Advanced Leadership Program

Van Huynh, *Genetics, Cell Biology and Development*

COMMENCEMENT ADDRESS

"Seeing Wisely"

Deborah E. Powell, M.D.

Dean, University of Minnesota Medical School

Dean Deborah E. Powell, M.D., joined the University of Minnesota Medical School in 2002. In addition to serving as dean, Dr. Powell is assistant vice president for clinical sciences in the Academic Health Center and a McKnight Presidential Leadership Chair. Dean Powell is a board-certified surgical pathologist and medical educator with more than 30 years of experience in academic medicine. In 2000, she was elected to the National Academy of Sciences Institute of Medicine. She received her M.D. from Tufts University School of Medicine and completed her residency at Georgetown University Medical Center and the Clinical Center of the National Institutes of Health.

PRESENTATION OF THE CANDIDATES

Robin Wright, Ph.D.

Associate Dean for Faculty and Academic Affairs, College of Biological Sciences

Robin Wright received her Ph.D. from Carnegie-Mellon University in 1985. She joined the College of Biological Sciences in 2003 as Associate Dean. Dr. Wright is Professor of Genetics, Cell Biology and Development and recognized for her research in this field. She also serves as chair for the CBS Curriculum Task Force and was named a National Academies Education Mentor in the Life Sciences.

CONFERRAL OF THE DEGREES

Maureen Cisneros, M.A.

Regent, University of Minnesota

Ms. Cisneros is a McNair Scholars graduate assistant in the College of Education and Human Development at the University of Minnesota. She is also an executive board member with the Minnesota Association for College Admission Counseling and a student representative to the University Senate Committee on Educational Policy. Ms. Cisneros earned her master's degree in advocacy and political leadership from the University of Minnesota. She was elected to a six-year term as an at-large student representative to the Board of Regents earlier this year.

CONGRATULATIONS AND WELCOME

William Diekman

President, Biological Sciences Alumni Society

Mr. Diekman received his bachelor of science degree in biology from the University of Minnesota in 1987. He spent 13 years working at PDL Biopharma managing quality control laboratories and quality assurance departments. In 2006, he joined Medtronic's Neuromodulation Division supporting development of novel drug and delivery systems for pain management and Parkinson's, Huntington's and Alzheimer's diseases.

CLOSING REMARKS

Dean Robert Elde

HAIL! MINNESOTA

Led by Dr. John S. Anderson, Accompanied by Beacon Hill Brass

Minnesota, Hail to thee!
Hail to thee, our college dear!
Thy light shall ever be
A beacon bright and clear.
Thy sons and daughters true
Will proclaim thee near and far.
They will guard thy fame, and adore thy name;
Thou shalt be their Northern Star!

RECESSIONAL

Please remain seated until the faculty and graduates have completely exited the auditorium.

THE BACHELOR OF SCIENCE DEGREE

A foundation of liberal education forms the guiding framework of all academic programs for undergraduate students on the Twin Cities campus. A liberal education allows students to explore the modes of inquiry and subject matter within the major branches of knowledge. To earn a bachelor of science degree, students must successfully complete at least 120 credits (30 courses), including courses in social sciences and humanities, history, chemistry, physics and math, as well as in biological sciences. Students with B.S. degrees from the College of Biological Sciences have the academic foundation needed for a variety of careers in industry, education, government and other fields, and are well prepared for further study in graduate or professional schools.

HONORS AND DISTINCTION DESIGNATIONS

Students in the College of Biological Sciences may graduate with Distinction, with Honors, or both, depending upon their grade-point average and the completion of an honors curriculum.

Graduation with Distinction is conferred to all students who have completed at least 60 credits at the University of Minnesota with a grade-point average of at least 3.900 (high distinction) or 3.750 (distinction).

Honors study is divided into two general parts. In the first and second years, the emphasis is on liberal education. Students who have completed at least three honors courses, a freshman seminar and maintained a grade-point average of at least 3.5 during their first two years are indicated in this program by an asterisk (*).

In the third and fourth years of study, the emphasis is on the research experience and a two-semester honors seminar, which exposes students to the breadth of biological inquiry and promotes interactions among the honors students. Students who complete the junior-senior part of the honors program graduate with a Latin Honors degree, based on the grade-point average earned throughout their last 60 credits as follows: *summa cum laude* (at least 3.75), *magna cum laude* (at least 3.666), or *cum laude* (at least 3.50).

ACADEMIC REGALIA

Academic gowns worn at American commencement ceremonies originated at English Universities during the 14th and 15th centuries.

The markings, cut and colors of modern day gowns indicate the degree, field of study and institution that granted the degree. The bachelor's degree gown is untrimmed and has pointed sleeves. The master's degree gown is untrimmed with winged sleeves. And the doctorate degree gown is trimmed in velvet, with three velvet bars on bell-shaped sleeves. Hoods are edged in velvet with the color indicating the wearer's discipline and faced with the color(s) of the institution that conferred the degree.

At the University of Minnesota, mortarboard tassels indicate field of study for bachelor's degree recipients. The College of Biological Sciences tassel is golden yellow. Honors students wear medallions with a maroon and gold ribbon.

THE MACE

The University of Minnesota mace was designed by art professor Philip Morton. It consists of a crystal sphere four inches in diameter surmounted by the North Star, symbol of the state of Minnesota, on an aluminum handle set with the University Regents seal. The mace was first carried in 1961 by Alfred Nier, Regents Professor of Physics, at the inauguration of President O. Meredith Wilson.

DEGREE CANDIDATES

BIOCHEMISTRY

Yoftahe Hailu Abebe
Laila Summer Akhter
Shea Marie Anderson
Jaron Howard Ballou
Gregory Steven Blaufuss (*cum laude*)
Nichole Boettcher (*cum laude, **)
Paul William Bolin
Kyle Robert Brandy
Joy A Brintnall (*distinction*)
Lucas McRay Bryant
Kelsey Elyse Bucholz
Samson Chai
Sonam Chodon
Suet Y Choi
Ivori Darnicia Crawford
Brinsley Ekinde Ekinde
Brian Engel
Elizabeth Lynn Frazier
Bryan James Frieman
Karthik Vikram Giridhar
(*summa cum laude, distinction, **)
Yana G Greenberg
Darwin Benjamin Hang
Merima Helic (*cum laude, **)
Stephen M Kalscheuer
Ashley M Kinneberg
Naomi Kreamer (*summa cum laude, high distinction*)
Karen M Krueger (*summa cum laude*)
Katie Nadine Lee (*summa cum laude, high distinction, **)
Brent Matthew Lejcher
Casey Lee Litchke (*summa cum laude, distinction, **)
Michael William Lofgren
David Michael Macdonald
Andrew James Manning (*magna cum laude, distinction*)
Justin John Miles (*summa cum laude, distinction*)
Pamela Joanne Mossey
Jayson Robert Nelson
Jennifer An Nguyen
Le Nguyen
Aaron G Oldre
Emily Jane Olson (*cum laude, **)
Molly Frances Peppel
Shawna Devi Persaud
Ryan Matthew Peterson (*cum laude*)
Sabrina Gene Peterson
Andrew Vladimirovich Petrenko
Tammy See Yee Quan
Adela P Ramic
Sejal Prabodh Raval
Elspeth Kate Ronnander (*summa cum laude, distinction, **)
Seth Rowley (*distinction*)
Ashleigh Marie Rushmann

James Stuart Scheu
Nathan John Schuld
Chee Hyun Sohn (*summa cum laude, high distinction*)
Michael Thomas Sullivan
Christopher Alexander Thompson
Brian Matthew Thone
Michael Turnbull
Cary T Valley (*magna cum laude, **)
Francis Charles Walosin
Manman Wang (*magna cum laude*)
Emily Kaye White
Amy Elizabeth Woods (*distinction*)
Peter Christian Yates

BIOLOGY

Andrea A Aasen
Linda Elshahat Abdalla
Amber Elizabeth Allen
Christopher Ryan Anderson
Nola Marie Anderson
Chelsey Jo Andreasen
Dave Edward Magnus Ankarlo
Tiffany Rosetta Ashley
Mariah Kathryn Babcock (*)
Nicholas Jon Baltas
Catherin Bayetti
Kattie C Bear
Krystal Sue Beilke
Yekaterina Olegovna Belousova
Christie Berkseth (*summa cum laude, distinction, **)
Lara Berland
Valentina Bernal
Nicole Beyer
Erika Bjorklund
Amy Rebecca Block
Brandon Paul Block
Amy Rachel Bohn
Lauren A Bondarenko
Natalie Nicole Braun (*summa cum laude, distinction, **)
Kayla Ann Brawders
Anna Kristen Bredsten
Andrea Lynn Buck
Thomas Wade Burling
Kathleen Ann Byron
Jade Cao
Allison Lynn Carland
Kacie Alayna Carlson
Ryan W Chicoine
Sophia Elrena Christoforides
DiDi Ann Christopherson
Elizabeth C Chun
Nicholas Crowley
Brian Michael Curry
Chandrasasi R Darjatmoko
Jocelyn Diana Dilworth
Jennifer Lynn Doebler

BIOLOGY *(continued)*

Jesse Allen Donner
Danielle Marie Doss
Amanda Christine Ellefson
Matthew John Erlandson
Joseph William Foley
*(summa cum laude, *)*
Hannah Jo Follis
Kyah Sue Fons *(summa cum laude, distinction)*
Erica Ann Forstrom
Katherine Lee Castle Froemming
Holly M Fuechtmann
Sebhat Gebrechristos
Timothy John Glendenning
(distinction)
Melissa Sue Glenn
James Kazuo Glover
Emma Louise Gray
Kacie Marshall Griffin
Megan Marie Guzik
Lindsey Ann Hancock
Ikram M Hassan
Keegan Dru Hasselmann
*(summa cum laude, *)*
Caitlin Kinney Hawthorne
Adam Paul Hayes
Jonica Jean Hazaert
Julia Ann Herman *(cum laude)*
David James Hernandez *(summa cum laude, high distinction, *)*
Ikkei Hirama
Ploena Hoang
Darlene Therese Huss
Alia Hussain
Justin Matthew Hyde
Jennifer Alejandra Iburg
Ashley J Januszewski
David J Jenson
Kent Brigden Johnson
Zona Jokondo
Judd Michael Jones
Priya Dipak Kamdar *(summa cum laude, high distinction)*
Meera Kannan
Jacqueline Marie Karth
Jordan Alexander Keen
Lacy Dee Kelly
Choua Khang
Mahdi Khorasani
Bradley Joseph Kirtz
James William Koll *(summa cum laude, distinction)*
Aaron Christopher Kornaus
Jamie Lynn Koumoundouros
Jesse Lee Kovash
Jessica Mae Krell
Shawn Phillip Kuykendall
Jayeun Michelle Kwon
Jessica Claire La Roque
Emelda F Lainjo
Daniel M Larson
Margaret Marie Larson
Kim Chi T Le
Jim Lee
Mai Pa Lor
Wynee ShiaoWei Lou
Jacie Lynn Maguire
Edward Mairura
Elizabeth Sara Malsin
Christopher Thomas Martin
Michael Joel Mastous
Shawn David McCarthy
(summa cum laude, distinction)
Sean Patrick McClaren
Christopher Francis McLarnon
Ronak Mehta
Lisa Kathleen Mills
James M Morgan II
Kaynaz Justine Myrum
Lisa Katayoon Myrum
Kelsey Rae Newell
Alexandra Phuong Anh Nguyen
Hanna Thao Nguyen
Kim-Lien Thi Nguyen
Erin Elizabeth Norby *(summa cum laude, high distinction, *)*
Takashi Obu
Kwabena Owusu
Emily Anne Parrott
Roy Michael Pasquarette
Preeya R Patel *(distinction)*
Anna Marie Pavlik
Brian Robert Peters
Ivy Pham
Timothy Robert Pofahl
Stephanie Lynn Purkat
(magna cum laude)
Susan Rashid *(distinction)*
Rebecca Lynn Reckelberg
*(cum laude, distinction, *)*
Matthew T Sanders
JeyaIedchumy Satheesh
Carolyn Schaeffer
Miriam Sarah Schimunek
Rebecca Lee Schirmer
Todd William Schlossman
Jacqueline A Schmainda
Laura J Schmid
Megan Elizabeth Schott
*(magna cum laude, *)*
James Louis Schroeder
Chris Shi
Dong Hwi Shin
Kiira Joy Siitari
Michael David Sinko
Mark Patrick Spaude *(cum laude, *)*
Amanda Jane Spitz
Katrina Kay Sterner
Andrew Albert Strohschein
Erin Danielle Studsrud
Elizabeth Anne Swanson
Travis Joseph Tacheny
Meghan R Taylor
Christina Elizabeth Thayer-Marmitt

BIOLOGY (continued)

Michael Bradley Theiler
 Michael Richard Tholen
 Brenna Jean Thompson
 Dana Pauline Tonjum
 Helen Thanh Tam Tran
 Duong Thuy Truong
 Nam Si Truong
 Brittany Lynn Uszenski
 Karena Marie Vagts (*distinction*)
 Jillian Brooke Van Sluys
 David Michael Vanderheyden
 Tou Chao Vang
 James Randy Vindedahl
 Toan-Thang Doan Vo
 Kristine Nicole Vogt
 Tiara Leigh Wagner
 Ashley Lynn Walkin (*distinction*)
 Hannah Marie Walls
 Michelle Dawn Walz
 Kaitlin Alexandra Wiedeman
 Audrey Wiley
 Michael Thomas Winegar
 Emily Thurza Wolf
 Jennifer Wong
 Feifei Sophie Xue
 Rebecca Amma Yamoah
 Christa Renee Yelich-Koth
 Brian Paul Zwieg

**ECOLOGY, EVOLUTION
AND BEHAVIOR**

Emily Nichole Alderman
 Lindsay Marie Anway
 Sam W Bircher
 Holly Brianna Burd
 Trista Nicole Campbell
 Rhonwen Chester-Jones
 Kevin Clay (*summa cum laude,
high distinction*)
 Andrew Phillip Coffman
 Kathryn Rose Coyne (*distinction*)
 Melissa Mary Cudzilo
 Joshua David Dumas
 Katherine J Fender
 Peter Viktors Gailans
 Marta Halina
 (*summa cum laude, distinction*)
 Emily Rose Hoganson (*)
 Kari Lynn Jacobsen
 Jessica Anne Klassen
 Karen Koch
 Jacob Henry Lindeman
 Heather Leigh Oehler
 Jill Peiffer
 Sonja Jeanne Riddle-Ford
 Natalie Michelle Ries
 Kathryn Victoria Smith (*cum laude*)
 Eli Matthew Swanson
 (*summa cum laude, distinction*)
 Sandra Marie Tekmen

Kimberly L. VanderWaal (*summa
cum laude, high distinction*)
 Meghan Kathleen Whelihan (*)

**GENETICS, CELL BIOLOGY
AND DEVELOPMENT**

Kylie Elizabeth Adams
 Dane C Allen
 Elizabeth Grace Ames (*summa cum
laude, distinction, **)
 Marisa Rae Bargsten
 Amanda Mae Bealka
 Ashley Renee Bekolay
 Wade Patrick Boyum
 Katherine Victoria Bricceno (*summa
cum laude, distinction, **)
 Daniela Vanesa Burgos-Ojeda
 Romina Andrea Caretta
 Ann Marie Clifford
 Kathleen Louise Colten
 Johanna Rae Ecklund (*cum laude*)
 Jesse Marcius Ellingboe
 Briana Dawn Evenson
 Srividya Gainedi
 Paula Jereissati Gentil
 Jonathan Charles Glynn
 Alissa Anne Goracke
 Simon J Gruber
 Eman Sattaree Haidari
 (*high distinction*)
 Kari Beth Haley (*distinction*)
 Zachariah Samuel Hall
 Shad Hugh Hamilton
 Amber May Hanson
 Christopher Lucking Haug
 Sarah Katherine Helfman
 Katie Lynn Henrikson
 Richard Lee Holst (*summa cum
laude, high distinction*)
 Haemin J Hong
 Van Bich Huynh
 Christina Lauren Kazemzadeh
 Angela Nicole Klossner
 Jeffrey William Kopesky
 Matthew Richard Korthauer
 (*magna cum laude, **)
 Alexander Koukhtaroff
 Nathan Aaron Lam
 TuAnh Ho Le
 Hong-Way Lin
 Amanda Anne Mahoney (*cum laude*)
 Nsehniitoooh A Mbah
 Rita-Marie Thomas McFadden
 Kyle Mark McKenzie
 (*summa cum laude, distinction*)
 Brandi D Miller
 Noelle Shea Moncada
 Stephanie Moy
 Jennifer Kristen Nei
 Kristal Ann Newman
 Beth Lane Nicholson
 Mark R Nicholson
 Lehan Gerald Patrick
 Joana R Perdigao
 (*summa cum laude*)

GENETICS, CELL BIOLOGY**AND DEVELOPMENT** *(continued)*

Sean Patrick Polster
(magna cum laude)
Gol Rahimaghaei
Starr Ramirez
Justin Michael Reed
Lauren M Reed
Brian Mathew Rhett
Jared H Rowe
(summa cum laude, distinction)
Michelle Leigh Royzman
(summa cum laude)
Gina Elizabeth Rozinka
Bethany Ann Schaefer
William John Scheels
Kyle Stephen Schumacher
Ryan R Seaverson
Rachel Christine Steckelberg
(high distinction)
Stephanie Stensland
(summa cum laude, distinction)
Blong Thao
Erica Carolyn Thomas
Jena Marie Trask
Mallory AnnaMarie Turner
*(cum laude, *)*
Raquel Kay Walsh
Adrienne Leigh Watson
*(summa cum laude, distinction, *)*
Colin William Weerts
Rachelle Dawn Werth
Anjali Asha Wilcox
Ryan Elliott Wolff
Adam Chi Zhang *(cum laude, *)*

MICROBIOLOGY

Traci Nicole Armstrong
Stephen Charles Beishir
Anne Kristine Bergmark
Sarah Colleen Briscoe
Aaron Thomas Charlson
Leah Beth Christensen
Thao Dang
Jordan Marie Edwards
Eric Russell Eigenberg
Oksana Alexandra Goldman
(distinction)
Sarah Halverson
Jacob Lee Hanson
Ellie Tran Huynh
Asha Yassin Jama
Stuart P Jerke
Matthew James Kesler
(summa cum laude, distinction)
Mary Patricia Krzesowiak
Maria Elizabeth Kuhn
Linse B Lahti
Kevin S Lang
Yao Lin Li

Catie Anne Michaelson
(summa cum laude)
Khalid Abdulmalik Mohamed
Nimo B Mohamed
Gary Michael Myers
Mary Elizabeth Pruss
Megan C Sandman
Paul Sarjo
Brian Schloeder
Adrienne Frances Schroll
Shelly Lee Skjolaas
Stina Lisa Urban
Nadine Helen VandenBosch
Starchild Weivoda
Jeffry Carl Wymer
Ser Xiong
Va Meng Xiong
Benjamin David Yau
(magna cum laude)
John Yeboah

NEUROSCIENCE

Rami Assadi
Jo Barta
John Timothy Bezdek (*)
Tealman Raditya Bjoraker
(cum laude)
Vanessa Marie Carels
Brittani Lauren Conway *(distinction)*
Callie Cox
Nathan John Downing
Rachelanne H Engel
Luke Austin Gliddon
Alexander Hartmann *(summa cum laude, *)*
Amanda Kay Kinnischtzke *(summa cum laude, distinction, *)*
Narayan Rai Kissoon
(summa cum laude)
Trista Jeanne Kleppin
Ashford Adelheid Holland Kroll
Todd Edward Lanis
Luke Gerard Lavergne *(distinction)*
Joshua Christopher Lindquist
Thomas Edward Meyer
Om Vinod Padhye
Joseph Thomas Page
Sonya Brown Polson *(magna cum laude, distinction, *)*
Stacy Leigh Quella *(summa cum laude, distinction, *)*
Kelly Ann Sovell *(distinction)*
Trenton James Tollefson
*(distinction, *)*
Joseph A Tossey
Amanda Rose Wiinamaki
*(distinction, *)*

PLANT BIOLOGY

Michael T Greenley
Angela S Haugen

MULTIPLE MAJORS

Carolyn J Andrews – Biochemistry, Genetics, Cell Biology and Development

Aida Attar – Genetics, Cell Biology and Development, Neuroscience
(*summa cum laude, distinction, **)

Rebecca Johanna Coobs – Biochemistry, Genetics, Cell Biology and Development

Roshani Dahal – Biochemistry, Genetics, Cell Biology and Development

JoAnn Marie Dwornicki – Ecology, Evolution and Behavior, Genetics, Cell Biology and Development

Deren Alexander Robert Eaton – Ecology, Evolution and Behavior, Plant Biology
(*summa cum laude*)

Lydia Ioanna Eleftheriou – Biochemistry, Genetics, Cell Biology and Development (*summa cum laude, distinction, **)

Adam Michael Gallagher – Biochemistry, Genetics, Cell Biology and Development

Dane Padraic Johnson – Biochemistry, Genetics, Cell Biology and Development

Paul Thomas Lanners – Biochemistry, Genetics, Cell Biology and Development

Emily Wright Mecklenburg – Biochemistry, Microbiology (*cum laude*)

Fikre Alemu Mengistu – Biochemistry, Genetics, Cell Biology and Development

Zubin Sorab Mukadam – Genetics, Cell Biology and Development, Microbiology

Jessica Ann Oehrlein – Genetics, Cell Biology and Development, Microbiology

Carrie Frances Olson – Ecology, Evolution and Behavior, Genetics, Cell Biology and Development (*summa cum laude, distinction*)

Joshua David Palmer – Biochemistry, Genetics, Cell Biology and Development
(*summa cum laude*)

Shruti Pravin Rangnekar – Biochemistry, Genetics, Cell Biology and Development

Joshua J Rosnow – Genetics, Cell Biology and Development, Plant Biology

Jennifer Ann Sellner – Genetics, Cell Biology and Development, Plant Biology

Robyn A Stoller – Biochemistry, Microbiology

Eric Thorsen – Biochemistry, Neuroscience

Chelsea Renee Tieszen – Biochemistry, Genetics, Cell Biology and Development (*summa cum laude, distinction*)

Erin Taylor White – Biochemistry, Genetics, Cell Biology and Development

Brooke Ashley Pritchard Winberg – Genetics, Cell Biology and Development, Microbiology

Lori Ann Zacharoff – Genetics, Cell Biology and Development, Neuroscience

UNDERGRADUATE RESEARCH

Research universities such as the University of Minnesota offer students the opportunity to do more than just learn about discoveries made by others. Our students are encouraged to work with faculty to make discoveries of their own. We recognize our students and their mentors who have embraced this opportunity and advanced the boundaries of human understanding.

Laila Akhter "Directed Research" Faculty mentor: Dr. W Gibson Wood

Traci Armstrong "Antimicrobial Growth Directed Research" Faculty mentor: Dr. Russ Bey

Rami Assadi "Tyrosine Hydroxylase in the Brain of *Apis melliferis*" Faculty mentor: Dr. Karen Mesce

Aida Attar "Hybridization and Histochemical Localization of Rat Galactosyl Transferase mRNA" Faculty mentor: Dr. Frank Williams; "Effect of Intercerebroventricular Benzamil on Hypothalamic Neural Activity" Faculty mentor: Dr. John Osborn

Jaron Ballou "Identifying Cold-Sensitivity Suppressors in the Yeast *Saccharomyces cerevisiae*" Faculty mentor: Dr. Robin Wright

Nicholas Baltes "Identifying Cold-Sensitivity Suppressors in the Yeast *Saccharomyces cerevisiae*" Faculty mentor: Dr. Robin Wright

Ashley Bekolay "The Role of p38 MAPk Substrates in Osteoclast Differentiation" Faculty mentor: Dr. Kim Mansky

Lara Berland "Effects of IGFBP-3 on Co-repressor Molecules (Ski and SnoN) in Porcine Myogenic Cells" Faculty mentors: Dr. Mike White and Dr. William Dayton

Valentina Bernal "Roles of Heparan Sulfate Proteoglycans in *Drosophila* Larval Brain" Faculty mentor: Dr. Hiroshi Nakato

John Bezdek "Developing Novel Pharmacological Tx's for Strabismus" Faculty mentor Dr. Linda McLoon

Erika Bjorklund "Genetic Mechanisms of *Drosophila melanogaster*" Faculty mentor: Dr. Michael Simmons

Gregory Blaufuss "Investigation of the Effects of Nicotine on Cytochrome P450s 2A6 and 2A13 Enzyme Activity" Faculty mentor: Dr. Sharon Murphy

Nichole Boettcher "Intravenous Biodistribution of Human CD34+ Cells After Myocardial Infarction in Rats" Faculty mentor: Dr. Doris Taylor

Amy Bohn "Grooming Behaviors Amongst Gombe Chimpanzees" Faculty mentor: Dr. Anne Pusey

Lauren Bondarenko "Opioid Receptor Interaction" Faculty mentor: Dr. Laura Stone

Kyle Brandy "Effect of Surface Composition on Platelet Adhesion in a Point of Care Diagnostic Device Intended to Predict Related Cardiac Risk Factors" and "Endothelial Study of LVAD Patients" Faculty mentor: Dr. Gundu Rao

Natalie Braun "The Role of Phosphodiesterases in Autism" Faculty mentor: Dr. SH Fatemi

Anna Bredsten "Maize Wilted Mutant Project" Faculty mentor: Dr. Nathan Springer

Joy Brintnall "The Renin-Angiotensin System in Adipose Tissue" Faculty mentor: Dr. Stephen Katz

Holly Burd "The Evolution of Vocalizations in the Family Tityridae (Aves: Passeriformes)" Faculty mentor: Dr. Robert Zink

Daniela Burgos-Ojeda "Comparison of Transfection Methods in Human Embryonic Stem Cells" Faculty mentor: Dr. Meri Firpo

Aaron Charlson "Nom1 Gene Involvement With Nonsense Mediated Decay"
Faculty mentor: Dr. Kathleen Conklin; "Cloning of the Rat Mitochondrial Genome"
Faculty mentor: Dr. Michael Koob; "*Harmonia axyridis* as an Aphid Predator"
Faculty mentor: Dr. Edward Radcliffe

Suet Choi "Enhancement of the Transposition Efficiency in Human Primary T Cells by the Sleeping Beauty (SB) Transposon System" Faculty mentor: Dr. Xianzheng Zhou

Leah Christensen "Diagnosing Prion Diseases Using cDNA Microarrays"
Faculty mentor: Dr. Pam Skinner; "Characterizing the Sla2-Swe1 Relationship in *S. cerevisiae*" Faculty mentor: Dr. Judy Berman

Kevin Clay "The Legacy of Ant Bioturbation: What Happens When Ants Move a Landscape?" Faculty mentor: Dr. Jay Bell; "The Phytogeography of Rhizobium Isolated from Minnesota Prairie Legumes" Faculty mentor: Dr. Peter Graham

Ann Clifford "Insulator Elements" Faculty mentor: Dr. Perry Hackett

Andrew Coffman "Competition Between PHB+ and PHB- Rhizobia in the Formation of Root Nodules" Faculty mentor: Dr. Ford Denison

Brittani Conway "NFAT Activation in Deafferented AVCN Neurons During a Developmental Critical Period" Faculty mentor: Dr. Lance Zirpel

Rebecca Coobs "Viability of *E. coli* by CO₂ Emission" Faculty mentor: Dr. Al Aaksan; "Knox10 Gene Mapping in Maize" Faculty mentor: Dr. Nathan Springer

Nicholas Crowley "Mucosal Immune Response to Group A Streptococcus"
Faculty mentor: Dr. Patrick Cleary

Roshani Dahal "Modification of a Plant Protein (STYLOSA) by a Specific O-GlcNAc Transferase Known as SECRET AGENT in *Arabidopsis* Plants" and "O-GlcNAc Modification Affects the Activity of Non-Phosphorylating NADP-dependent Glyceraldehyde-3-phosphate Dehydrogenase" Faculty mentor: Dr. Neil Olszewski; "Using Virtual Screening to Identify Competitive Inhibitors of eIF-4E Binding to eIF-4G That Block the Cap-dependent mRNA Translation" Faculty mentor: Dr. Peter Dahlberg

Jennifer Doebler "Cellular Localization of APOBEC 3G" Faculty mentor: Dr. Reuben S Harris

Nathan Downing "Seizures in Liver Transplant Recipients" Faculty mentor: Dr. Lakshmi Kanth; "Informative Populations for Genetics of Epilepsy" Faculty mentor: Dr. Miguel Fiol

Deren Eaton "Variation Among Natural Accessions of *Arabidopsis thaliana* in Utilization of Photoprotective Mechanisms During Cold Stress" Faculty mentor: Dr. Jeannine Cavender-Bares; "Mycorrhizal Fungi in Aerial and Terrestrial Roots of Tropical Epiphytic and Terrestrial Species of Orchidaceae" Faculty mentor: Dr. Karen Masters

Johanna Ecklund "A Molecular and Genetic Characterization of the LAD-2 gene in *C. elegans*" Faculty mentor: Dr. Lihsia Chen

Brian Engel "Evaluation of the Specific Activity and *in vivo* Stability of the Nitrogenase Enzymes in *Rhodospseudomonas palustris* CGA009" Faculty mentor: Dr. Michael Flickinger

Briana Evenson "The Aberrant Role of Chemotherapy in Tumor Progression and Metastasis" Faculty mentor: Dr. Joseph De Larco

Joseph Foley "Positional Cloning of the APM1 Gene in *Chlamydomonas*" Faculty mentor: Dr. Carolyn Silflow; "A New Noise Filter for DNA Microarray Expression Data" Faculty mentor: Dr. Fumiaki Katagiri

Elizabeth Frazier "Transforming an Esterase to an Epoxide Hydrolase" Faculty mentor: Dr. Romas Kazlauskas

Bryan Frieman "Response of *E. coli* to Desiccation Stress" Faculty mentor: Dr. Janet Schottel

Srividya Gainedi "Chlamydomonas and Secretory Mechanisms" Faculty mentor: Dr. Anton Sanderfoot

Adam Gallagher "Analysis of a Genetic Suppressor of the *C. elegans* Heterochronic Gene *lin-42*" Faculty mentor: Dr. Ann Rougvie

Karthik Giridhar "Changes in Fuel Source Requires Fructose-26-bisphosphate" Faculty mentor: Dr. Alex Lange

Melissa Glenn "P28 Yeast 2-Hybrid Gene" Faculty mentor: Dr. Kim Manksy

Luke Gliddon "Effects of Progesterone on Reinstatement of Cocaine-Seeking Behavior in Female Rats" Faculty mentor: Dr. Marilyn Carroll

Alissa Goracke "The Role of ER Quality Control in Cold Adaptation: Screen for Bypass Suppressors and Enhancers of the Cold-Sensitive Phenotype of *ubc7Δ* Mutants" Faculty mentor: Dr. Robin Wright

Yana Greenberg "Iron-Dependent Regulation of Ferritin Receptor" Faculty mentor: Dr. Greg Vercellotti

Megan Guzik "Modulation of Cancer Pain by Cannabinoids" and "Cannabinoid Signaling and Hyperalgesia" Faculty mentor: Dr. Donald Simone

Amber Hanson "*Drosophila melanogaster* Microbial Resistance of *Pseudomonas aeruginosa* and *Enterococcus faecalis*" Faculty mentor: Dr. James Curtsinger; "Regulation of Vitellogenin Gene Expression in *C. elegans*" Faculty mentor: Dr. David Zarkower

Keegan Hasselmann "Using Proteins From Transgenic Crops to Establish Ground Beetle Participation in Plant- and Residue-Based Food Webs" Faculty mentor: Dr. David Andow; "Analysis of Expression Profile Data from Plants Infected with Pathogens" Faculty mentor: Dr. Jane Glazebrook

Merima Helic "Exploration of an Unexpected Link Between Transcriptional Silencing and Organelle Biogenesis" Faculty mentor: Dr. Robin Wright; "Genome Stability in the Fungal Pathogen *Candida albicans*" Faculty mentor: Dr. Judy Berman

Julia Herman "Antihyperalgesic Effect of GTP Cyclohydrolase Inhibition in a Murine Model of Cancer Pain" Faculty mentor: Dr. Darryl Hamamoto

David Hernandez "The Effects of Neurogenin Mutants on Neurogenesis in the Chick Spinal Cord" Faculty mentor: Dr. Naoko Koyano-Nakagawa

Van Huynh "Expression of Beetle Luciferase in Group A Streptococcus" Faculty mentor: Dr. P Patrick Cleary

Stuart P Jerke "Expression of Toll/IL-1R Domain-Containing Adaptor Protein (TIRAP) Is Detrimental to Primary Clearance of Salmonella and Is Not Required for the Generation of Protective Immunity" Faculty mentor: Dr. Stephen McSorley

Dane Johnson "Mutational Analysis of Human Noxa Protein" Faculty mentor: Dr. Ameeta Kelekar

Priya Kamdar "Analysis of the Dynamics and Evolution of HIV Drug Resistance" Faculty mentor: Dr. Louis Mansky

Matthew Kesler "Rim101 Processing in *snf7^{-/-}* Suppressors of *Candida albicans*" Faculty mentor: Dr. Dana Davis

Choua Khang "Strain-Specific Growth/Survival of *Escherichia coli* in Soil" Faculty mentor: Dr. Mike Sadowsky

Amanda Kinnischtzke "HVC Neural Sleep Activity Increases With Development and Parallels Nightly Changes in Song Behavior" Faculty mentor: Dr. Teresa Nick

Narayan Kissoon "Regulation of Dynorphin Expression in Spinal Neurons" Faculty mentor: Dr. Virginia Seybold; "Anatomical Correlates of Cognitive Dysfunction in Parkinson's Disease" and "Dystonia Surgical Program" Faculty mentor: Dr. Paul Tuite

Trista Kleppin "Localization of IB4 and Galectin-3 in Rat Spinal Cord and DRG" Faculty mentor: Dr. Robert Elde

Angela Klossner "Microsatellite Variation as a Measure of Genomic Instability Associated with Autism Spectrum Disorder" Faculty mentor: Dr. Scott Selleck

Karen Koch "Study of Associative Learning in *Drosophila*" Faculty mentor: Dr. Aimee Dunlap

James Koll "Comparison of the Behavior and Social Relationships of Three Alpha Male Chimpanzees at Gombe National Park Tanzania" Faculty mentor: Dr. Anne Pusey

Jeffrey Kopesky "An Investigation About Genetic Counselors Interest in and Attitudes About Doctoral-Level Training in the Profession" Faculty mentor: Prof. Bonnie S LeRoy

Aaron Kornaus "Ralstonia Resistance in *Arabidopsis*" and "Calmodulin Interactions With Sag101, Eds1, and Pad4" Faculty mentor: Dr. Jane Glazebrook

Matthew Korthauer "Comparison of Gene Expression Alterations in Prion Disease Infected Mice to Theiler's Murine Encephalomyelitis Virus Infected Mice" Faculty mentor: Dr. Pamela Skinner

Naomi Kreamer "Thioredoxin Reductase: A Chromate Reductase" Faculty mentor: Dr. Lawrence P Wackett

Ashford Kroll "Otitis Media and Presbycusis" Faculty mentor: Dr. Steven K Juhn

Linse Lahti "Viral and Cellular Determinants of Infection by Reovirus" Faculty mentor: Dr. Leslie A Schiff

Katie Lee "A Novel Model for Addressing B Cell Somatic Hypermutation" Faculty mentor: Dr. Timothy Behrens; "The Association of Human Papillomavirus E7 With E2F6 and Human-lethal(3)Malignant Brain Tumor" Faculty mentor: Dr. Karl Munger, Harvard Medical School; "Isolation of Cytochrome P450 2A7 and 2A6 for Expression and Analysis of Enzymatic Activities" Faculty mentor: Dr. Sharon Murphy

Yao Lin Li "Shewanella MR-4 Transposon Mutagenesis" and "Shewanella Iron Reduction Assay" Faculty mentor: Dr. Jeff Gralnick

Casey Litchke "Proteasome Subunit S5a Interacts With Ubiquitin Receptor hPLIC2" Faculty mentor: Dr. Kylie Walters

David MacDonald "From Sequence to Structure: Computational Modeling of Fibroblast Growth Factors" Faculty mentor: Dr. Professor Bill Gleason

Edward Mairura "Growth and Expression of Phospholamban" and "Growth, Expression and Purification of Phospholamban and Extraction of SERCA for NMR Studies" Faculty mentor: Dr. Gianluigi Veglia

Elizabeth Malsin "Creating a Transgenic PEP Animal" Faculty mentor: Dr. Erik Peterson

Andrew Manning "Optimization of Flavonoid Detection Assay and the Creation of Mutated Pathway Libraries" and "Development of Active Site Map and Mutation of Stilbene Synthase to Accept a Non-Traditional Substrate to Enable Biosynthesis of Vanillin" Faculty mentor: Dr. Claudia Schmidt-Dannert

Shawn McCarthy "The Potential Regulation of Osteoblasts by Osteoclasts" Faculty mentor: Dr. Kim Mansky

Kyle McKenzie "Analysis of DNA Variants Associated With Kidney Transplant Outcome" Faculty mentor: Dr. William Oetting

Emily Mecklenburg "Identification of Proteins From Equine Seminal Plasma That May Be Responsible for Reducing Sperm-Binding to Polymorphonuclear Neutrophils" Faculty mentors: Dr. Douglas Foster and Abdo Alghamdi

Fikre Mengistu "Structural Determination of Beta-hemolysin From *Staphylococcus aureus*" Faculty mentor: Dr. Douglas Ohlendorf

Thomas Meyer "Spinothalamic Tract Development in Mice" Faculty mentor: Dr. Glenn Giesler

Brandi D Miller "Humanization of a Recombinant Anti-leukemia Protein, DT2219EB1" Faculty mentor: Dr. Daniel A Valleria

Noelle Moncada "Heterochronic Gene Expression and Developmental Implications" and "Expression and Quantification of the Regulatory Gene *tga1*" Faculty Mentor: Dr. Ann Rougvie

Kristal Newman "The Role of Transposable Elements in *Drosophila melanogaster*: Investigating the Suppression of Repressor-Sensitive Alleles and the Induction of sterility by H(hsp/P) Transgenes" Faculty mentor: Dr. Michael Simmons; "Designing Various Plasmid Vectors With the Insertion of the Heme-Oxygenase 1 Gene" Faculty mentor: Dr. Clifford Steer

Erin Norby "Multipotent Adult Progenitor Cells (MAPCs) as a Possible Treatment for Strokes" Faculty mentor: Dr. Walter Low

Takashi Obu "Characterization of CNS Deficits in a Mouse Model of SCA5" Faculty mentor: Dr. Laura Ranum

Heather Oehler "Ecological Rationality Hypothesis – Impulsivity in the Captive Blue Jay" Faculty mentor: Dr. David Stephens

Emily Olson "Effect of Insulin-like Growth Factor and Serum on Glioma Growth in Soft Agar" Faculty mentor: Dr. Bradley Miller

Carrie Olson "Illuminating Species Identity: The Case of the Goldenrod Gall Fly" Faculty mentor: Dr. Susan Weller; "Communities of Iron Range Bacteria Associated With Plant Roots in Iron Springs Bog" Faculty mentor: Dr. David Biesboer; "The Distribution of the Effect of Mutation on Fitness" Faculty mentor: Dr. Antony Dean

Om Padhye "Psychoacoustics: Frequency Dependent Recovery of Basilar Membrane From Forward Masking at Characteristic Frequency and Acoustical Threshold Measurements" Faculty mentor: Dr. Magda Wojtczak

Joseph Page "A Structure/Function Analysis of the Neuronal Cell Adhesion Molecule LICAM in *C. elegans*" Faculty mentor: Dr. Lihsia Chen

Joshua Palmer "Biophysics of Heart Muscle Membranes Using Spectroscopic Methods" Faculty mentor: Dr. David D Thomas

Jill E Peiffer "Transgenerational Effects of CO₂ and N on Three Minnesota Prairie and Grassland Plant Species" Faculty mentors: Dr. Jennifer Lau and Dr. Peter Tiffin; "Lion Attacks on Humans in Tanzania: Comparison of Context in North and South" Faculty mentor: Dr. Craig Packer

Joana R Perdigao "Interferon-treated Murine RM-1 Prostate and B16 Melanoma Cancer Vaccine Cells: Induction and Accumulation of IL-15" Faculty mentor: Dr. W Robert Fleischmann

Shawna Persaud "Co-repressor Receptor Interacting Protein 140 Function on Chromatin Structure of Cellular Retinoic Acid Binding Protein I Gene in a 3T3-L1 Cell Line" Faculty mentor: Dr. Li-Na Wei

Brian Peters "The Role of Osteoclasts in Regulating Osteoblasts" Faculty mentor: Dr. Kim Mansky

Ryan Peterson "Understanding the Molecular Mechanism for an HSPG's Contribution to Axon Guidance" Faculty mentor: Dr. Scott Selleck

Sonya Polson "Long-term Modulation of Muscarinic Acetylcholine Receptors by Xanomeline Exposure" Faculty mentor: Dr. Esam E El-Fakahany

Sean Polster "FOXO Transcriptional Regulation in Heart Failure and in Response to Intervention With a Left Ventricular Assist Device (LVAD)" and "Effects of SPROUTY-1, an Intrinsic Inhibitor of the ERK Signaling Cascade, in the Human Heart" Faculty mentor: Dr. Jennifer Hall; "CD4+ CD25+ FOXP3+ Regulatory T Cells Dramatically Increase in Kidney Transplant Patients After Immunodepletion With Campath-1H" Faculty mentor: Dr. Deb Bloom

Stephanie Purkat "Effect of Age on Brain Expression of Orexin Receptor 2" Faculty mentor: Dr. Catherine Kotz

Stacy Quella "Phosphorylation of the Mu Opioid Receptor *in vitro* and *in vivo*" Faculty mentor: Dr. Robert Elde; "Utilization of Transgenic Corn" Faculty mentor: Dr. Wen-Ping Chen

Gol Rahimghaei "MT3 and Its Role in Normal and Neurodegenerative Brain Tissue" and "Evaluate Cell Lysis Methods" Faculty mentor: Dr. Ian Armitage

Shruti Rangnekar "Proteomic Analysis of *Escherichia coli* Exposed to Desiccation Stress" Faculty mentor: Dr. Janet Schottel; "Clinical Research in Neurological Diseases" Faculty mentor: Dr. Gareth Parry

Rebecca Reckelberg "Function of Calcium Dependent Protein Kinase in *Medicago truncatula*" Faculty mentor: Dr. J S Gantt

Brian Rhett "Suicide Gene Project for Sleeping Beauty Transposon" Faculty mentor: Dr. Perry Hackett

Sonja Riddle-Ford "Pre-dispersal Insect Predation on *Cordia bicolor*" Faculty mentor: Dr. Helene Muller-Landau

Jared Rowe "Double Adjuvant System for Fusion-Protein-Based Cancer Vaccines" Faculty mentor: Dr. Christopher Pennell

Michelle Royzman "Gene Expression Changes in ara-C *de novo* Resistance" Faculty mentor: Dr. David Largaespada

Gina Rozinka "Humanization of Genetically Engineered Immunotoxin DT-2219 for Treatment in B Cell Leukemia" Faculty mentor: Dr. Daniel Vallera

Carolyn Schaeffer "Heparin Sulfate Proteoglycans and Optake of HIV-1 Into Oral Keratinocytes" Faculty mentor: Dr. Mark Herzberg

Miriam Schimunek "Infection of Soybean by the Sudden Death Pathogen *Fusarium solani* f sp. *glycines*" Faculty mentor: Dr. Dean Malvick

Rebecca Schirmer "Gene Expression in Phosphorus Stressed *Phaseolus vulgaris* by RT-PCR" Faculty mentor: Dr. Carroll P Vance; "High-throughput Mapping of Mutations in Maize" Faculty mentor: Dr. Nathan Springer

Megan Schott "The Cytokines IL-4 and IL-13 Induce Protection Against Endothelial Cell Death by Pore Forming Agents" Faculty mentor: Dr. Agustin P Dalmasso

James Schroeder "The Neuroendocrinological Effect of Stress on Depression" Faculty mentor: Dr. Jonathan Gewirtz

Kyle Schumacher "Transposon-Mediated Gene Trapping of Zebrafish Genome" Faculty mentor: Dr. Steven Ekker

Jennifer Sellner "Molecular Population Genetics of Defense Signaling Genes in *Arabidopsis thaliana*" Faculty mentor: Dr. Peter Tiffin

Chee Hyun Sohn "Identification of p38 MAP Kinase Substrates by Yeast Two Hybrid" and "Role of p38 MAP Kinase in Osteoclast Differentiation" Faculty mentor: Dr. Kim Mansky

Kelly Sovell "Behavior of Subventricular Stem Cells in Response to Stroke" Faculty mentor: Dr. Walter Low

Mark Spaude "The Correlation of Facial Proportions of the Lower Third of the Face and Aesthetic Appearance" Faculty mentor: Dr. James R. Miller

Amanda Spitz "P53 Tumor Protein" Faculty mentor: Dr. H. Brent Clark; "Neural Substrates of Memory" Faculty mentor: Dr. Jonathan Gewirtz

Rachel Steckelberg "Toll-like Receptor Expression on Langerhans Cells" Faculty mentor: Dr. Kristin Hogquist

Stephanie Stensland "Kidney Defects in Wnt5a Mutant Mice" Faculty mentor: Dr. Anna Petryk

Robyn Stoller "Functional Characterization of Leucine-rich alpha-2 glycoprotein-1" Faculty mentors: Dr. Ronald Jemmerson and Dr. Ameeta Kelekar

Eli Swanson "Can Female Anurans Use Inadvertent Social Information to Locate Breeding Segregations?" and "Auditory Masking of Anuran Advertisement Calls" Faculty mentor: Dr. Mark Bee; "A Characterization of Sequence Divergence in the Y Chromosome in *Eliurus*" Faculty mentor: Dr. Sharon Jansa

Travis Tacheny "Hydraulic Conductivity" Faculty mentor: Dr. Jeannine Cavender-Bares

Eric Thorsen "Supportive Housing and Student Group Involvement as Predictors of Outcome and Relapse in Chemically Dependent Students" Faculty mentor: Dr. Dana Farley

Trenton Tollefson "Investigating the Transition From Strong to Weak Pitch Salience at Varying Fundamental Frequencies" Faculty mentor: Dr. Andrew Oxenham

Stina Urban "Immune Cell Infiltration Into the Brain During Herpes Encephalitis" Faculty mentor: Dr. James Lokensgard

Cary Valley "Understanding the Role of Human Mcm10 in DNA Replication" Faculty mentor: Dr. Anja-Katrin Bielinsky

Raquel Walsh "Building Positive and Negative Control Vectors Targeting Different Tissues to Study the Effects of the Gene Heme Oxygenase-1 in Transgenic Sickle Cell Mice" Faculty mentor: Dr. Clifford J Steer

Adrienne Watson "Growth Hormone Regulation of the Hepatic Nuclear Factor 6 (HNF-6) Gene Via Signal Transducer and Activator of Transcription (STAT) Proteins" Faculty mentor: Dr. Susan Berry; "Drosophila Phototaxis Behavior Is Determined by the Tuberous Sclerosis Complex Signaling Pathway and Is Affected by Nutrition" Faculty mentor: Dr. Scott Selleck

Colin Weerts "Genetic Mechanisms of Atherosclerosis" Faculty mentor: Dr. Jennifer Hall

Rachelle Werth "Cold Sensitivity in *Saccharomyces cerevisiae*" Faculty mentor: Dr. Robin Wright; "n26 Deletion in *Arabidopsis thaliana*" Faculty mentor: Dr. Susan Gibson

Meghan Whelihan "Experiments on Sociality in *Drosophila melanogaster*" Faculty mentor: Dr. Aimee Dunlap

Amanda Wiinamaki "The Effect of Opiates on Learning and Circadian Rhythms" Faculty mentor: Dr. Jonathan Gewirtz; "The Effect of Sodium Concentration Within the Endocrine System on Apoptosis in Huntington's Disease" Faculty mentor: Dr. Janet Dubinsky

Emily Wolf "Assisting in Design and Analysis of Motor Cortical Imaging and Single Cell Recording" Faculty mentor: Dr. Timothy Ebner

Ryan Wolff "Screen for Sex-Specific V Ray Development in *C. elegans*" Faculty mentor: Dr. David Zarkower; "Cytotype Regulation of P Elements in *Drosophila*: The Aubergine Paradox" Faculty mentor: Dr. Michael Simmons; "The Importance of Water in the Life Cycle Development of *Dictyostelium*" Faculty mentor: Dr. Margaret Titus

Jennifer Wong "Regulation of PTH-Mediated Induction of MGP Expression by Sp1/Sp3 Transcription Factors" Faculty mentor: Dr. Rajaram Gopalakrishnan

Peter Yates "The Effect of Flagellin Derivative on the Response to *Listeria Monocytogenes* Following Low-Dose Irradiation in Mice" Faculty mentor: Dr. Angela Panoskaltis-Mortari

Benjamin Yau "Regulation of Cytokine and Chemokine Responses Following Cytomegalovirus Infection" Faculty mentor: Dr. Wade A Bresnahan

John Yeboah "Inhibitors of Leucine-Rich Alpha-2-Glycoprotein-1(LRG) Interaction With Cytochrome C" Faculty mentor: Dr. Ronald Jemerson

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