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The Department of Genetics
Every student is part of our history!

The Department of Genetics was established as the “Department of Experimental Breeding” in 1910. It was the first such department in the United States. The department owes its creation to the vision and persuasive powers of William D. Hoard, who was largely responsible for making Wisconsin “America’s Dairyland.”

Since then 110 years have passed.

Notable Achievements:
Nobel Prize by Joshua Lederberg
Nobel Prize by Oliver Smithies
20 faculty inducted into the National Academy of Sciences
John Doebley has been a staple in the Genetics department for over 20 years. As a plant geneticist John has studied the evolution of maize and its relatives. Specifically, he works on the genetics changes that have resulted in the emergence of maize from its apparent teosinte forebear, Z. mays ssp. parviglumis, a wild grass that grows in Mexico.

Throughout his time at UW, John has been a strong leader, highly regarded instructor, and well respected colleague and collaborator. As he transitions away from his role as Department Chair he will slowly ease into retirement. But we will still see him around the Genetics building as he teaches his final course, finishes research, and probably finds another project or two along the way.

We thank Professor Doebley for his teaching, leadership, mentorship, and dedication to UW all these years.
Al has been with the Department of Genetics since 1987 and will be retiring in the summer of 2020 after 33 years of dedicated service, teaching, leadership, and mentoring to hundreds of students and his fellow faculty. Al’s research used *Drosophila* to understand the genetic regulation of pattern formation during embryogenesis. Specifically, studies cellular signaling by TGF-beta, which influences the activity of Smad proteins which, in turn, enter the nucleus and specifically regulate gene transcription.

Throughout his tenure Al has served on countless committees, supported graduate and undergraduate programs, taught a variety of courses, and assisted the department through many transitional times. We sincerely thank Professor Laughon for his wisdom, good humor, and dedication to the department for his entire career.
Instructors and Advising Team

Carin Loewen  
Instructor / Academic Advisor

Lauren Foley  
Student Services Coordinator / Academic Advisor

Katie Vermillion  
Kalmon  
Director of Undergraduate Programs & Advisor

Kit Tilmann  
Instructor / Academic Advisor

Qiang Chang  
John Doebley  
Audrey Gasch  
Chris Todd Hittinger  
Akihiro Ikeda  
Allen Laughon
Instructors and Advising Team

Patrick Masson
Bret Payseur
Francisco Pelegri
Nicole Perna
John Pool
Tom Prolla
Steve Schroedi
David Schwartz
Nathaniel Sharp
Ahna Skop
Instructors and Advising Team

David Wassarman  Donna Werling  Jerry Yin  Xuehua Zhong
Your Wisconsin Experience
Undergraduate Research
Hands-On Classes and World Class Research
Developed and led by Professor Francisco Pelegri, this new experience for UW undergraduates allows study abroad participants the experience of a lifetime! This unique field-study program had its first cohort of students in 2019 travel abroad and wander through the cloud-forests of the jungle and learn about biodiversity and see animal species only found in this part of the world!
2019 Participants

Savannah Barry
Briana Crockett
Isabel Delo
Lorena Diaz
Mayalee Erfourth
Sean Khor
Katherine Klimpel
Katherine Kudrna
Ka Lor
Alexander Mathers
Colton Mowers
Ritika Punathil
Rebekah Schroeder
Karen Simpson
Jiameng Sun
Liam Tomson-Moylan
Ben Veire
Vanessa Writt
“We often say that UW is a place that changes lives. But the university is just a collection of buildings on a beautiful lake.

It’s the *people* at the university who change lives.”

Chancellor Blank
Your Favorite Courses taken at UW

- Acting
- Genomic Revolution
- Plant Genetics
- Intro to Drawing
- Women and their Bodies in Health and Disease
- Medical Genetics
- Food Science
- Literature and Medicine
- Developmental Genetics & Conservation
- Anthropology
- Medical History
- Art History
- Neurogenetics
- Cancer Genetics
- Intro to Digital Printmaking
- Race and American Politics from the New Deal to the New Right
- Cartography
- Intro to Animal Development
“Every one of you came to UW with your own dreams, and your own unique story. You brought your own skills and talents and interests. And each of you has had different experiences here.

But there is one thing I hope every one of you discovered on this campus.

By identifying skills, passions and abilities you may not have known you possessed, you discovered opportunity.”

Chancellor Blank, 2019
No matter where I go, Wisconsin will always be home.
Now presenting the Class of 2020...
Ritika Punathil  
Menomonee Falls, WI  
Favorite Genetics Memory: Field trip to visit Dr. Francisco Pelegri’s Dartmoor ponies  
Favorite Genetics Course: Neurogenetics

Taylor Doherty  
New Holstein, WI  
Favorite place on campus: Memorial Union Terrace  
Favorite Genetics Course: Developmental Genetics for Conservation and Regeneration

Isabel Delo  
De Pere, WI  
Favorite Genetics Memory: Ripping out invasive coffee plants in Costa Rica with our bare hands (the very definition of hands on involvement)

Virginia Wise  
Wilmette, IL  
Most important thing I’ve learned at UW: How to be confident in the choices I have made  
Certificate: French
Jenna VanDenAvond  
Cottage Grove, MN  
Favorite spot on campus: Memorial Union Terrace

Renee Engels  
Muskego, WI  
Favorite Genetics Memory: Watching genetics-related movies with UGA  
Favorite non-science course at UW: The Female Body in the World

Jenna Ehlert  
Sussex, WI  
Most important thing I’ve learned: I am learning about the things that make me happy and make me who I am. Life is about constant growth and I feel that I am on the right trajectory right now.  
Future plans: Applying to Medical School

Teja Mallela  
Green Bay, WI  
Favorite Genetics Memory: Getting ice cream with Genetics 545 lab peers and Kit
Laura Farlow
Waconda, MN
Favorite place on campus: Top floor of the WID
Most important thing I’ve learned: Have friends that support your goals and the importance of having an education that encompasses science as well as law, gender and women's studies, and global health.

Kayla Rogan
Wausau, WI
Future plans: Become a PA
Volunteer Involvement: American Family Children’s Hospital

Abigail Draves
De Pere, WI
Favorite Memory: My senior year capstone group and all of our group meetings <3
Most important thing I’ve learned: To always remember to be comfortable in your genes.

Ashley Doherty
Menomonee Falls, WI
Accomplishment I am most proud of: Becoming president of UW- Madison’s premedical chapter of the American Medical Student Association.
Julia Oelke
Merrill, WI

Most proud of: Continuing my coursework for the spring 2019 semester while I spent most of my time in the hospital or at doctor's appointments due to having multiple health issues.

Favorite non-science course: Ballet

Mikaela Koller
Eau Claire, WI

Most important thing learned: Some people understand things more quickly than others and that's okay.

Favorite memory: The genetics unit in intro biology being the one that clicked the most with me. Made me feel reassured that I was in the right degree.

Mario Bertogliat
Minnetonka, MN

Accomplishment I am most proud of: Last fall I published a first authorship reviewing the epigenetic mechanisms of neurodegenerative disease and acute brain injury, citing over 500 different studies

Christina Riehle
Edgar, WI

Involvement/Activities while at UW: Marching Band

Favorite Place on campus: Lakeshore Path
Alexandra Oldenburg  
Appleton, WI  
Favorite non-science course taken at UW: Athenian Democracy. If I hadn't majored in science, I would have been a History major with a focus on Ancient Greece. This class was amazing and taught me so much.

Ben Noyes  
Franklin, WI  
Most important thing I learned at UW: I'd rather be dumb and hardworking than smart and lazy.

Timothy Biewer-Heisler  
West Allis, WI  
Plans after graduation: Graduate school at Bloomington Indiana.  
Research Involvement: John Pool Lab

Matthew Wakai  
Middleton, WI  
Accomplishment I am most proud of: Joining a research lab my sophomore year researching age-related diseases. It helped spark my interest in age-related diseases, and I was able to earn authorship on several published papers.
Gabriella Geiger  
Milwaukee, WI  
Favorite Genetics course taken at UW: Cancer Genetics  
Plans for after graduation: Apply to medical school this summer to attend in Fall 2021

Hannah Sheriff  
Hoffman Estates, IL  
Additional Major: Psychology  
Most important thing I’ve learned at UW: You will be most successful doing what makes you happy

Kali Denis  
Hudson, WI  
Favorite Genetics memory: Taking a field trip in Developmental Genetics and Conservation to Francisco's pony farm  
Favorite place near campus: Vintage Spirits and Grill

Will Whisler  
Minneapolis, MN  
Study Abroad: Sevilla, Spain
Sheida Pourdashti
Waukesha, WI
Favorite place on campus: Memorial Union Terrace
Plans after graduation: Attending medical school in August

Michael Mussar
Lake Zurich, IL
Favorite Genetics memory: Having Genetics Seminar on the grass in Henry Mall
Favorite place on campus: The WID

Laura Seitz
Racine, WI
Plans after graduation: Pharmacy School at UW-Madison
Most important thing I’ve learned at UW: Every part of our time as badgers is special and has given us memories that we’ll carry with us for the rest of our lives!

Stuart Fass
Madison, WI
Most important thing I’ve learned at UW: Doing things by yourself is an inefficient use of your time and on campus resources. Just get help.
Favorite place on campus: QQ's
Megan Mills
Racine, WI

Plans after graduation: Doctor of Pharmacy program at the Medical College of Wisconsin
Involvement at UW: Kappa Alpha Theta Scholarship Director, Badger Volunteers, UW Health Radiology, and conducted research in a bioinformatics/genetics lab at the WID

Abbie Rogers
Verona, WI

Involvement at UW: UW Women's Rugby Football Club
Research Experience: Andrew Bent's lab

Maya Erfourth
Mount Horeb, WI

Favorite Memory: Going to Costa Rica with Francisco Pelegri for the DGC study abroad!
Accomplishment I’m most proud of: My work as president of Pre-Students of Osteopathic Medicine on Campus

Sydney Bruggeman
Neenah, WI

Research Involvement: Parks lab
Plans after graduation: Working as a Genetic Counseling Assistant with the goal of going to Genetic Counseling school
Katherine Batten
Waterville, ME
Favorite spot on campus: Any coffee shop! Bloom, Grace, Barriques, Crescendo, Ancora (just to name a few)

Caitlin Marks
Madison, WI
Accomplishment I’m most proud of: Illustrating 2 science coloring books for kids and the community
Involvement at UW: Vice President Microbiology Club and Saturday Science volunteer

Scott Cameron
Bloomington, MN
Favorite place on campus: Any Dock on Lake Mendota
Most important thing I’ve learned at UW: Prioritize time for the people you care about

Allie Andreski
Pewaukee, WI
Most important thing I’ve learned at UW: Perseverance
Accomplishment I’m most proud of: I independently wrote and presented the Maternity center project and received a check to be donated to the construction of a Maternity center in the Grace Center in Malawi, Africa
Lorena Diaz
Chicago, IL
Favorite place on campus: The floating tables in Microbial Sciences
Favorite Genetics course taken at UW: Genetics 527 Developmental Genetics for Conservation

Melissa Strupp
Spencer, WI
Favorite Genetics memory: Working with flies genetics 545 lab
Favorite place on campus: Memorial Union Terrace

Gus Hermberg
Sussex, WI
Involvement while at UW: Marching Band
Favorite place on campus: Microbial Sciences Building

Olivia Steidl
Milwaukee, WI
Accomplishment I’m most proud of: Receiving the Sophomore Research Fellowship and the Hilldale Fellowship to support my research in Caitilyn Allen’s lab
Most important thing I’ve learned: The importance of collaboration and effective communication, especially within STEM fields
Gabriella Voit
Milwaukee, WI
Accomplishment I’m most proud of: Being able to get a paper published through my lab

Linda Wang
Madison, WI
Favorite Genetics course taken at UW: Animal Developmental Genetics
Favorite non-science course taken at UW: History of Science 202

Molly Hensel
Cambridge, WI
Favorite place on campus: Discovery Building

Austin Stram
Mt. Horeb, WI
Madolyn Holten
Oak Creek, WI
Favorite Genetics memory: Working on my IP Project for Specific Methylation Sites Differing For High vs. Low Fertility Bull Sperm
Favorite Genetics course: Animal Development

Emily Johnson
Anoka, MN
Favorite Genetics memory: Learning about stem cell research and investigating usage in NTP 670
Plans after graduation: Hopefully medical school in Australia
& Additional Graduates

Jessica Berry  Andi Pan
Conrad Blosch  Lucian Parece
Anastasia Bravos  Daniella Puccio
Ryan Brown  Yadely Quinones Villalpando
Noah Carrillo  Jack Schaefer
Jackie Chang  Amanda Scharenbrock
Nikhil Desen  Erin Seablom
David Grau  Carl Simmons
Hannah Hahn  Chris Stein
Meaghan Hannon  Austin Stram
Evan Hoffins  Claude Vandevender
Lucy Kronzer  Carissa Waldo
Jonathan Le  Hunter Walton
Lucas Moyer  Megan Wysocki
Do things outside of your comfort zone. Join that club you were thinking about, take that dance class you always wanted to take, and most importantly go have fun with your friends and peers. These four years will go by so quickly, but those lasting memories and life-long friendships will be there with you forever.

- Teja Mallela

Time passes faster than you think. Do it before it's too late. You'll regret not doing it later.

-Molly Hensel

Don't be afraid to put yourself out there and go after your goals!

-Gabriella Voit

Work hard, play harder.

-Jenna VanDenAvond

Constantly be pushing yourself out of your comfort zone and don't be afraid to lean on people.

-Will Whisler
Breathe, eat healthy food, move, take breaks and breathe more. You will be ok. —Katherine Batten

The hardest part of college isn't the academics. The hardest parts are when life is just happening and doesn't seem to care that it’s finals week, or that you have three papers due. How you face those challenges, which are impossible to predict, will shape you and strengthen you as a person. My advice is to remember that you are much more capable, much more resilient than you think you are, and these hard points in life can bring that to light. —Isabel Delo

Treat college kinda like highschool! You gotta wake up early and stay disciplined, if you can do that you just beat college. Also save caffeine until the last two years. —Ben Noyes

Do everything you love when you can because it might be taken away from you before you realize. Life goes by in a heartbeat. Buy season tickets to Football, Hockey, Basketball. Stay up all night with friends. Go on roadtrips. Hike Devil’s Lake and Picnic Point. Watch the sunrise over frozen Mendota. Make it to all the bars. Picnic on Bascom. Buy a hammock and use it every day you can in the spring when it’s over 45 degrees. Eat the entire Babcock ice cream freshman 15 with your roommate. Get excited about the first snow. Don’t take anything for granted because your lasts might be your lasts before you’re ready for them to be. —Alexandra Oldenburg
Senior Class Award Recipients

Andi Pan

Mario Bertogliat

2020

2020
Final Thoughts...
Dear Graduates of 2020,

Oh, what a way to go! You are about to graduate in a way, and at a time, that no other person, or very few others ever have. And as we face this unprecedented time I strongly believe that the training, experiences, knowledge, and education you have gained here at the University of Wisconsin-Madison will bring you promise, and success in an increasingly genetic world. Your degree in Genetics and Genomics is unique, as are the current circumstances in life. I challenge you to find the silver lining in each of the days ahead, and continue to pursue the dreams you have. I am strong believer in that whatever your goals are in life, you can achieve them. It may take extra hurdles, strides, and strength, but all things are possible for those with the determination to reach their goals. I have been fortunate to get to know many of you during your time here at UW-Madison. I have enjoyed the conversations, discussions, classes, and meetings that have allowed me to see the amazing talent and intelligence within you, as well as the caring and compassionate people that you are.
I hope that as you move through life you will reflect fondly on your time here at UW-Madison as a Genetics and Genomics major, and that you will keep in touch as you go out, and change the world. And whether I have had the opportunity to meet you or not, please know that we are here for you always. A question about graduate schools, job prospects, changes in the field, or just life questions, we are here for you.

I know that the senior year did not end as planned, but the resilience and adaptability you are putting forth right now will also help you achieve your goals and dreams in life. Congratulations on this momentous achievement in life, you my friend, have graduated from college!!

Congratulations again,

Katie Vermillion Kalmon
Dear Genetics and Genomics Class of 2020,

Congratulations! You have just successfully completed a difficult four-year course of study and earned, through your hard work, a Bachelors of Science degree in Genetics and Genomics. Be proud! You have learned much, and you are prepared for the next phase of your life whether you are going directly into the workforce or pursuing a higher degree. Be confident!

Our community, our State, our nation and our world are now facing the global pandemic of Covid-19, a challenge on par with greatest challenges ever faced by our nation such as the 1918 flu epidemic and Great Depression. Responding to such challenges requires a workforce of highly trained medical professionals and biomedical research scientists. Our nation and the world need you, and you are ready. There was never a more appropriate time to say, “Think globally, act locally.”
On a personal note, let’s us say that we have delighted in our opportunity to participate in your education. Whether you took General Genetics, Clinical Cases in Medical Genetics, Animal Developmental Genetics or Developmental Genetics for Conservation with us, we both feel honored to have had the opportunity to help you explore the fascinating world of genetics. It was our privilege! We sincerely thank you for your participation in our undergraduate program.

Finally, as you open the door to the next chapter of your life, please take the opportunity to look back and reflect on how you arrived at this juncture. Many people have helped you. You have much for which to be thankful and many people to thank. In the days and weeks ahead, reach out to those who helped you succeed – your teachers, your friends, your family and your parents – and tell them “Thank you.” Your success is their reward.

Be well, Be safe, On Wisconsin,

John Doebley, Chair

Francisco Pelegri, Chair-Elect
CONGRATULATIONS FROM ALL OF US IN THE DEPARTMENT OF GENETICS