

Molecular, Cellular, and Developmental Biology Spring Commencement 2020

May 16, 2020

10:00 AM

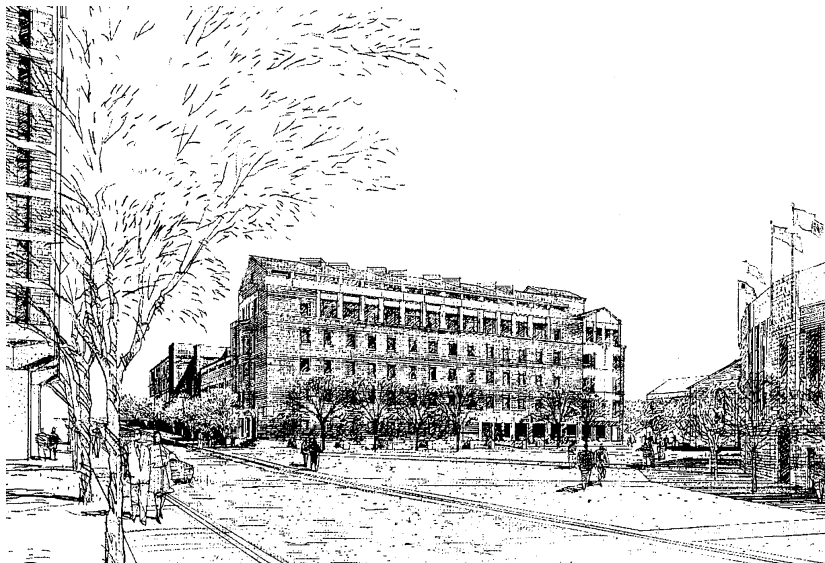
<https://www.colorado.edu/mcdb/>

University of Colorado, Boulder

**Dr. Lee Niswander – MCDB Chair
Spring 2020 Opening Remarks and
Commencement Address**

**Student Graduate Address
Jack Ethan Johnson**

**Doctor of Philosophy MCDB conferred by:
Dr. Ken Krauter – MCDB Associate Chair
Conferral of Bachelor Degrees by:
Dr. Jennifer Knight**



Doctor of Philosophy - MCDB

Giancarlo Noe Bruni Advisor: Dr. Joel Kralj - MCDB
Illuminating Bacterial Electrophysiology
Howard Hughes Medical Institute Gilliam Awardee

Dalton Buysse Advisor: Dr. Greg Odorizzi – MCDB
Regulation of ESCRT- III Membrane Scission at Endosomes by Doa4, a Ubiquitin Hydrolase

Tova Lynn Ceccato Advisors: Dr. Leslie Leinwand –
MCDB – Dr. Kristi Anseth –
Chemistry, Chemical and Biological
Engineering
Physical and Biochemical Cues Initiate Pathological Signaling in Cardiac Fibroblasts

Lauren Christine Crisman Advisor: Dr. Jingshi Shen - MCDB
Identification and Characterization of Trafficking Regulators Via Genome Wide CRISPER Screening

Kenneth Michael Felsenstein Advisor: Dr. Dan Theodescu –
Cedars Sinai
Functional Genomic Dissection of Immunobiological Phenotypes in Cancer

Eli Gendron Advisor: Dr. Stephen Schmidt -
EBIO
Climate Change Driven Disturbances to Annual Patterns in Alpine Hydrology Depress Diversity of Planktonic Communities by Increasing the Influence of Selection from Local Environmental Factors on Community Assembly

Steven Guard Advisor: Dr. William Old - MCDB
Unbiased Omics: Revealing DYRK1A Function in DNA Damage Repair and the Mechanism of Action of Cannabidiol

Genevieve Kerr Wilson Advisor: Dr. Leslie Leinwand -
MCDB
Expression of a Slow Muscle Myosin (β -MyHC) Drives Both Physiological & Pathological Changes in Skeletal Muscle

Bridget Lee Menasche Advisor: Dr. Jingshi Shen - MCDB
Genetic Screens Identify Regulators of Cytotoxic Lymphocyte Mediated Cell Death and Membrane Trafficking

Andrew Bank Morgenthaler Advisor: Dr. Shelley Copley – MCDB
Gene Duplication Divergence, and What Lies in Between

Deanna Langager Muehleman Advisor: Dr. Leslie Leinwand -
MCDB

*Biological Sex Differences in a Rodent Model of Pathological
Cardiac Hypertrophy and Regression*

Alex Renee Paine Advisor: Dr. Jenny Knight - MCDB
*Students' Use of Science Process Skills in Introductory Level
Biology Labs*

Douglas Kevin Peters Advisor: Dr. Robert Garcea - MCDB
*Spatiotemporal Organization of Murine Polyomavirus
Replication Centers*

Master of Arts Degree - MCDB

Marisela Gonzalez-Cruz Advisor: Dr. Lee Niswander –
MCDB

*A Long Non-Coding RNA as a Regulator of Neural Progenitor
Cell Fate*

Chancellor's Recognition Awards - 4.0 GPA

Yannick Clency Lee-yow *** *summa cum laude*
with distinction

*The Use of Caenorhabditis elegans as a Radiotherapy Model
for Studying Short-term and Long-term Radiation-induced
Side Effects*

Advisor: Dr. Ding Xue

John Troup Moir V* *with distinction*
**Bachelor of Arts in Biochemistry and an additional major in
Molecular Cellular Developmental Biology and a minor in
Leadership**

Jessica Janet Rea* *with distinction*
**Bachelor of Arts - Neuroscience with an additional major in
Molecular Cellular Developmental Biology and a minor in
Business**

Logan Tyler Schwanz *** *summa cum laude*
with distinction

*Computational Modeling of Hindered Zirconium Beta-
Diketonate Polymerization Catalysts*

Advisor: Dr. Michael Marshak, Chemistry

MCDB Undergraduate Honors

Sandra Anaa Appiah** *magna cum laude*
Investigating the Composition of the Gut Microbiome in Murine Polytrauma and Hemorrhagic Shock
Advisor: Dr. Christopher Lowry - Integrative Physiology

Xander Gordonray Brandeen *** *summa cum laude*
with distinction
Effects of Separation Time on Pair Bond Behaviors and Partner-Elicited Neuronal Activation
Advisor: Dr. Zoe Donaldson, MCDB, Psychology and Neuroscience

Logan Thrasher Collins** *summa cum laude*
Beckman Scholar
Design of a de novo Aggregating Antimicrobial Peptide and a Bacterial Conjugation-based Delivery System
Advisor: Dr. Anushree Chatterjee – Chemical and Biological Engineering

Tadg Forward *** *summa cum laude*
with distinction
Preliminary Protocols for the Quantification of Shewanella oneidensis Iron Reduction Performance
Advisor: Dr. Luis Zea, Aerospace Engineering Sciences

Grace Nicole Hibshman** *summa cum laude*
Atomic Force Microscopy Reveals Higher-Order Telomeric Architecture Mediated by Shelterin
Advisor: Dr. Thomas Cech, Biochemistry

Chloe Huntzinger *** *magna cum laude*
The Influence of Light Levels on Carbon Isotope Fractionation by Synechococcus sp. PCC 7002
Advisor: Dr. Boswell Wing, Geology

Benjamin Huxley *** *summa cum laude*
with distinction
Exogenous Rescue of Endogenous TPD-43 Knockout in Cultured Muscle Cells
Advisor: Dr. Brad Ohwin, MCDB

Jack Ethan Johnson** *summa cum laude*
Identification and Characterization of cpr-4 Suppressor Mutant
Advisor: Dr. Ding Xue, MCDB

Alfred Austin Kemp** *magna cum laude*

Optimizing Retroviral Barcode Infection of Skeletal Muscle Stem Cells

Advisor: Dr. Brad Olwin, MCDB

Rathan Kumar**

magna cum laude

How is GLUT4-mediated Glucose Uptake Impaired in Insulin Resistance?

Advisor: Dr. Jingshi Shen, MCDB

Robert David Meushaw**

summa cum laude

Engineering of a Cleavable C-terminal Domain of RNA Polymerase II

Advisor: Dr. Dylan Taatjes, Biochemistry

Alice Rey Landfair Mueller ***

summa cum laude

with distinction

A Dive into the Endogenous Retrovirus-Derived BANCRC Expression under Interferon- γ

Advisor: Dr. Edward Chuong, MCDB

Valerie Marie Olsen**

magna cum laude

The Role of Coronin1c in Endoplasmic Reticulum Associated Endosomal Fission

Advisor: Dr. Gia Voeltz, MCDB

Jessica Pafford**

magna cum laude

RCAN1 Mediates Anxiety-related Behaviors in part through Regulation of CREB1 Signaling

Advisor: Dr. Charles Hoeffler, Integrative Physiology

Stephanie Nicole Salazar**

summa cum laude

Evaluation of the Effects of Altitude on Rat Anxiety - and Depressive-like Behavioral Responses

Advisor: Dr. Christopher Lowry, Integrative Physiology

Isaac Emanuel Sellinger**

magna cum laude

Covalent Organic Frameworks as Customizable Vehicles for Controlled Drug Release

Advisor: Dr. Wei Zhang, Chemistry

Isabella Galang Shelby ***

summa cum laude

with distinction

Creating a Mouse Model of Human p63-related Ectodermal Dysplasia Using CRISPR-Cas9 Gene Editing

Advisor: Dr. Rui Yi, MCDB

Austin Robert Hammermeister Suger**

summa cum laude

Investigation of Student Reasoning as a Significant Predictor of Academic Success in Introductory Genetics

Advisor: Dr. Jenny Knight, MCDB

Seana Patricia Thompson**
The Microbiology of Table Salts
Advisor: Dr. Noah Fierer, EBIO

magna cum laude
with distinction

Bachelor of Arts - MCDB

Deena Gehad Abuagina
Fatima Rashid Al-Ali
Mary Ava Joy Anel
Sandra Anaa Appiah**
Eloise Ana Aragon
Morgan Miranda Baciú
Samuel Noah Baird*
Aidan Andrew Barker
Matthew Stephen Barry
Jonathan Michael Beirne
Jessica Benjamin
Kahealani Bentosino
Bruce Richard Berg
Matthew Porter Bertelson
Alexander William Black
Stephan T. Blaskovics
Tyler James Blue
Xander Gordonray Brandeen

magna cum laude

with distinction

summa cum laude
with distinction

Corey Wilson Brown
Kaitlin E. Buck
Erin Leigh Burgmaier
Trevor S. Call
Sara Marie Campione
Christine Catherine Canepa*
Joshua Leonano Celis
Mukda Chabairum
Janelle Salazar Chapman
Erin Char*
Gavin Chiem*
Oliver Marco Chow
Henry Luong Chu
Kimberly Ann Clark
Stephen Kyle Clark
Logan Thrasher Collins ***

with distinction

with distinction

with distinction

summa cum laude
Beckman Scholar

Crystal Marie Colmenero
Sophie Elida Conley
Emily Kay Czarnik*
Shelbi Elizabeth Davenport
Niccolo Guzzo Degliantoni
Benjamin Neil Dinges
Lajessie Fonsur Dinh
Rhys Patrick Dresser

with distinction

**Samuel Joseph Farmer
Antonio Dimitri Feula
Jackson Thomas Fontaine
Tadg Forward** ***

summa cum laude
with distinction
with distinction

**Lauren Elizabeth Gerace*
Dylan Richard Gessner
Isabel Rae Gonzales
Lauren Elizabeth Gray
Christopher Greidanus*
Brianna Raechelle Griffin
Margaret Groissant
Jordan Michael Hahn
Sophia Matisse Harding**

with distinction

**Kevin Hau
Shay Helm*
Grace Nicole Hibshman**
Emily Michelle Hite
Scott Ho**

with distinction
summa cum laude

**Cameron David Horning
Gretchen Hoyer*
Chloe Huntzinger**
Benjamin Huxley*** ***

with distinction
magna cum laude
summa cum laude
with distinction
with distinction

**Margaret Percy Ivy*
Emily Louise Jacobs
Lauren Elizabeth Jacobsen
Nicole Kay Jacobsen
Kathrina Marie Jaehne
Asmita Jha**

**Xingyi Jiang
Jack Ethan Johnson****

summa cum laude
with distinction
magna cum laude
with distinction

**Oula Kareem*
Alfred Austin Kemp**
Danielle Alyssa Klem*
Stella Nichol Koliavas
Daren O'Brien Kraft
Sarah Elise Kreston
Michelle Kubicki
Rathan Kumar****

magna cum laude
with distinction

**Nathan Ryan Landry*
Avery Allen Langley
Yannick Clency Lee-yow*** ***

summa cum laude
with distinction

**Cassandra Leibson
Meredith Ann Lewis
Jennifer Nicole Liebig
Cassandra Leibson
Benjamin James Madden
Karim Mahmoud**

Allyson Malloy	
Cameron Joseph Markuson	
Chelsea Anne Martin	
Marisa Camille Martin Wegryn	
Ian Daniel McAdams	
Charly Mendoza	
Justus Josephine Mestas	
Robert David Meushaw**	<i>summa cum laude</i>
Joel Robert Meyers	
John Troup Moir V*	with distinction
Nigel Francis Moore	
Alice Rey Landfair Mueller***	<i>summa cum laude</i>
	with distinction
	with distinction
Amrita Nag*	
Sara Le Nguyen	
Simile Nguyen	
Maria Valentina Nino Quiroga	
Lauren Olsen	
Valerie Marie Olsen**	<i>magna cum laude</i>
Levant Ayetekin Ozdemir	
Jessica Pafford**	<i>magna cum laude</i>
Dongjoo Park	
Margaret Patterson	
Haley Ann Peterson	
Joshua Xiao Kang Peterson*	with distinction
Jade Katherine Ponder	
Manasa Ponnappalli*	with distinction
Anna Jing Price	
Olivia Grace Raygoza	
Jessica Janet Rea*	with distinction
Brian Thomas Reed	
Ellen Kendall Renard	
Josephine Xiaoyun Rudoff	
Micah DeLoss Salazar	
Stephanie Nicole Salazar**	<i>summa cum laude</i>
Kathryn Salmeron	
Lyndsie Ann Salvagio	
Jamie Nicole Schultz	
Logan Tyler Schwanz***	<i>summa cum laude</i>
	with distinction
Eric Austin Schwender*	
Brody Seebass	
Isaac Emanuel Sellinger**	<i>magna cum laude</i>
Maryssa Elaine Sena	
Ksenia Serdyukova*	with distinction
Amira Sheikh	
Isabella Galang Shelby***	<i>summa cum laude</i>
	with distinction
Andrew Shlossman	
Thomas Scott Grady Sizemore	

Shannon Mae Skeoch
Brandon Smith
Youn Seong Son
Andrew Daniel Soto
Olivia Grace Squalls
Julia Suffoletta
Austin Robert Hammermeister Suger** *summa cum laude*
Justin Kyle Tapper* *with distinction*
Gabriel Adam Tauber
Gabriella Elizabeth Thalblum
Johna May Bezdek Thaut
Seana Patricia Thompson *** *magna cum laude*
with distinction

Shelby Nicole Toline
Megan J. Urban
Jose Alfredo Valadez
Zachariah Daniel Velasco
Giovanni Alexis Venzor Melendez
Nishika Virmani
Makaylah Waddle
Faye Walker
Andrew Joseph Walowitz
Chioma Brandie West
Lukas Emerson Wiborg
William Robert Williston
Binpeng Wu
Joshua M. Zertuche

****Graduation with Honors is determined by the Honors Program of the college and is based on several criteria, including the quality of original scholarly work. Honors are not conferred on a graduate simply by virtue of high grades. The Departmental Honors Program is organized around a student research project undertaken in MCDB or a related department. It is not necessary to take Honors Department courses to qualify. Candidates for Departmental Honors must satisfy GPA requirements, complete a research project, prepare an Honors thesis describing the research project in a scholarly fashion and pass an oral examination.**

***Graduation with Distinction is noted by the asterisk and is achieved through 30 credit hours completed at the University of Colorado, Boulder. Students must have a GPA average of 3.75 or higher for all course work completed at the University of Colorado and have a cumulative GPA average of 3.75 or higher for all collegiate course work completed at all institutions attended.**