Ryan Daniel Cordner

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EDUCATION

Cedars-Sinai Medical Center, PhD

2016

- Biomedical Sciences and Translational Medicine
- Dissertation: "The role of CD8 T cell sialylation in glioma immunity and neurodegeneration"

Brigham Young University, BS

2010

Major: Clinical Laboratory Science

Professional Experience

Teaching

Brigham Young University, Assistant Teaching Professor

2016-Present

Courses Taught

MMBio 392 - Hematology

MMBio 393 – Immunohematology and Coagulation Theory

MMBio 394 – Practical Hematology

MMBio 395 - Practical Immunohematology and Coagulation

MMBio 406 – Clinical Chemistry

MMBio 409 - Hematology

MMBio 410 – Hematology Laboratory

MMBio 411 – Molecular Diagnostics

MMBio 422 – Pathophysiology and Laboratory Diagnostics in Clinical Chemistry

MMBio 423 – Pathophysiology and Laboratory Diagnostics in Clinical Chemistry and

Molecular Biology

MMBio 424 – Diagnostic Techniques in Clinical Chemistry

MMBio 425 - Diagnostic Techniques in Clinical Chemistry and Molecular Biology

MMBio 496R – Clinical Experience

MMBio 551R – Current Topics in Microbiology and Molecular Biology

Clinical

Brigham Young University Student Health Center, COVID-19 Lab Supervisor 202

2020-Present

- Help set up and operate the high complexity CLIA laboratory
- Oversee and train students performing COVID-19 gPCR testing
- Interpret and report qPCR results
- Maintain lab records including staff training, QC, and QA documents

2010-2011

- Performed analysis of clinical specimens in the areas of hematology and clinical chemistry.
- Assisted with interim quality assurance laboratory inspections.
- Performed preventative maintenance and quality control testing on clinical analyzers.

Student Mentoring

Graduate Student Committees

Jennifer Brereton – MS Student

-MS Thesis: "Is Urinary Ferritin a Valid Surrogate for Serum Ferritin in a Newborn Intensive Care Neonate? A Pilot Study

<u>Undergraduate Students Mentored</u>

Kristen Skinner – Fibrin Pattern Analysis in Factor Deficiencies
Chandler Hatch – Differential Eosinophil Granulation
Sarah Hegerhorst – Differential Eosinophil Granulation
Austin Ralphs – Decision Based Learning Model for White Blood Cell Identification
Lauren Brooksby – Decision Based Learning Model for White Blood Cell Identification
Jemma Skabelund – Decision Based Learning Model for White Blood Cell Identification
Tara Blanc – Decision Based Learning Model for White Blood Cell Identification
Joshua Adams – The Education Gap in Medical Laboratory Science
Celeste Dunn – The Education Gap in Medical Laboratory Science
Mekeli Nelson – The Education Gap in Medical Laboratory Science

Abstracts, Publications and Presentations

Abstracts

- Cordner R, Dunn C, Davis M. 2018. The Education Gap in Clinical Microbiology. Abstract for poster presentation, American Society for Clinical Laboratory Science Annual Meeting, San Diego, CA.
- 2. Adams J, Davis M, **Cordner** R. 2018. Evaluating the Gap between Training Programs and Hospitals in Medical Laboratory Science Chemistry Testing. Abstract for poster presentation, American Society for Clinical Laboratory Science Annual Meeting, San Diego, CA.
- 3. **Cordner** R, Jhun M, Panwar A, Wang H, Yeager N, Murali R, McAbee J, Mardiros A, Takei A, Fan X, Jouanneau E, Black K, Wheeler C. 2016. IDH1 Modulates the CD8 T cell Response to Glioma. Abstract for oral and poster presentation, St. Jude National Graduate Student Symposium, Memphis, TN.

- 4. **Cordner** R, Jhun M, Panwar A, Wang H, Yeager N, Butte P, McAbee J, Mardiros A, Takei A, Fan X, Jouanneau E, Black K, Wheeler C 2013. IDH1 Modulates the Immune Response to Glioblastoma. Abstract for oral presentation, Immunology LA 2014, Los Angeles, CA.
- 5. **Cordner** R, Jhun M, Panwar A, Wang H, Yeager N, Butte P, McAbee J, Mardiros A, Takei A, Fan X, Jouanneau E, Black K, Wheeler C. 2013. IDH1 Modulates the Immune Response to Glioblastoma. Abstract for poster presentation, Society for Neuroscience Annual Meeting, San Diego,CA.
- 6. **Cordner** R, Jhun M, Panwar A, Wang H, Yeager N, McAbee J, Mardiros A, Takei A, Fan X, Jouanneau E, Black K, Wheeler C. 2013. IDH1 Modulates the Immune Response to Glioblastoma. Abstract for poster presentation, AACR Annual Meeting, Washington D.C.
- 7. **Cordner** R, Ventura JS, Blickenstaff JW, Walther CK, Mayo JL, Felin JE, Andreason B, Wallace NB, Barrow JR, Edwards JG, Capecchi MR, Bridgewater LC. 2010. Mice Bearing a Targeted Mutation of nBmp2 Display Decreased Memory Capabilities. Abstract for poster presentation, Experimental Biology, Anaheim, CA.
- 8. **Cordner** R, Karyampudi L, Knutson KL. 2009. Efficacy of PD-1 Blockade in a Breast Cancer Vaccine Model. Abstract for Oral Presentation, Mayo Clinic, Rochester, MN.
- 9. **Cordner** R, Loos TJ, McCune BC, Bridgewater LC. 2009. ROC1 and ROC2: Interactions with the Nuclear Variant of Bmp4. Abstract for poster presentation, Experimental Biology, New Orleans, LA.
- Cordner R, Loos TJ, Bridgewater LC. 2009. ROC1 and ROC2: Interactions with the Nuclear Variant of Bmp4. Abstract for poster presentation, Utah Conference of Undergraduate Research, Salt Lake City, UT.

Publications

- Jhun M, Panwar A, Cordner R, Irvin DK, Veiga L, Yeager N, Pechnick R, Schubloom H, Black KL, Wheeler CJ. 2020. CD103 Deficiency Promotes Autism (ASD) and Attention-Deficit Hyperactivity Disorder (ADHD) Behavioral Spectra and Reduces Age-Related Cognitive Decline. Frontiers in Neurology 11:557269.
- 2. Panwar A, Jhun M, Rentsendorj A, Madiros A, **Cordner** R, Birch K, Yeager N, Duvall G, Koronyo-Hamaoui M, Cohen RM, Ley E, Black KL, Wheeler CJ. 2020. Functional recreation of age-related CD8 T cells in young mice identifies drivers of aging- and human-specific tissue pathology. *Mechanisms of Ageing and Development* 191:111351.
- 3. **Cordner** RD, Friend LN, Mayo JL, Badgley C, Wallmann A, Stallings CN, Young PL, Miles DR, Edwards JG, Bridgewater LC. 2017. The BMP2 nuclear variant, nBMP2, is expressed in mouse hippocampus and impacts memory. *Scientific Reports* 7:46464.
- 4. Junes-Gill KS, Lawrence CE, Wheeler CJ, **Cordner** R, Gill TG, Mar V, Shiri L, Basile LA. 2014. Human hematopoietic signal peptide-containing secreted 1 (hHSS1) modulates genes and pathways in glioma: implications for the regulation of tumorgenicity and angiogenesis. *BMC Cancer* 14:1920.

- 5. Jouanneau E, Black KL, Veiga L, **Cordner** R, Goverdhana S, Zhai Y, Zhang X, Panwar A, Mardiros A, Wang H, Gragg A, Zandian M, Irvin DK, Wheeler CJ 2014. Intrinsically desialyated CD103⁺ CD8 T cells mediate beneficial anti-glioma immune responses. *Cancer Immunology and Immunotherapy*. 63(9):911-24.
- 6. **Cordner** R, Black KL, Wheeler CW 2013. The Exploitation of Adaptive Evolution in Glioma Treatment. *CNS Oncology* 2(2), 171-179.

Presentations

- 1. Online Analyzers for Online Internships. Clinical Laboratory Educators' Conference, February 2021.
- 2. Improving Educational Practices in Medical Laboratory Science Courses. BYU MMBio Seminar Series, March 2020.
- 3. Using and Creating Open Educational Resources for MLS/MLT Programs. Medical Laboratory Educators Network Symposium, May 2019.
- 4. Molecular Diagnostics in the BYU MLS Program. Medical Laboratory Educators Network Symposium, November 2018.
- 5. Clinical Internship Site Location and Recruitment in the BYU MLS Program. Medical Laboratory Educators Network Symposium, November 2018.
- 6. White Blood Cell Morphology and Clinical Laboratory Centralization. BYU MMBio Seminar Series, October 2018.

Certifications

Certified Medical Laboratory Scientist by the American Society for Clinical Pathology

2011

Society Memberships

American Society for Clinical Laboratory Science American Society for Clinical Pathology 2017 2020