

Alex J. Bott

POSTDOCTORAL FELLOW

Department of Biochemistry, University of Utah

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Employment

University of Utah

NCI K00 POSTDOCTORAL FELLOW

- Advisor: Jared Rutter, Ph.D.

Salt Lake City, UT

2018-Present

Education

Stony Brook University

PH.D. GENETICS

- Advisor: Wei-Xing Zong, Ph.D.

Stony Brook, NY

2012-2018

University of Delaware

B.S. BIOLOGICAL SCIENCES, CONCENTRATION IN BIOTECHNOLOGY

- Advisor: Jung-Youn Lee, Ph.D.

Newark, DE

2008-2012

Fellowships

K00 Postdoctoral Transition award

NATIONAL CANCER INSTITUTE

2019 - Present

F99 Predoctoral Transition award

NATIONAL CANCER INSTITUTE

2016 - 2018

F31 Predoctoral Fellowship

NATIONAL CANCER INSTITUTE

2016

Publications

1. JA Berg, JR Bellyeu, JT Morgan, Y Ouyang, **AJ Bott**, AR Quinlan, J Gertz, and J Rutter (2020). XPRESSyourself: Enhancing, standardizing, and automating ribosome profiling computational analyses yields improved insight into data. *Plos Computational Biology*.
2. **AJ Bott**, J Shen, et al. (2019). Glutamine anabolism plays a critical role in pancreatic cancer by coupling carbon and nitrogen metabolism. *Cell Reports*.
3. CL Bensard*, DR Wisidigama*, ..., **AJ Bott**, ..., CS Thummel, and J Rutter (2019). Regulation of Tumor Initiation by the Mitochondrial Pyruvate Carrier. *Cell Metabolism*.
4. JA Pan, Y Sun, YP Jiang, **AJ Bott**, N Jaber, Z Dou, Bin Yang, JS Chen, JM Catanzaro, C Du, WX Ding, MT Diaz-Meco, J Moscat, K Ozato, RZ Lin, and WX Zong (2016). TRIM21 ubiquitylates SQSTM1/p62 and suppresses protein sequestration to regulate redox homeostasis. *Molecular Cell*.
5. **AJ Bott***, IC Peng*, YF Fan, B Faubert, L Zhao, J Li, S Neidler, Y Sun, N Jaber, D Krokowski, W Lu, JA Pan, S Powers, J Rabinowitz, M Hatzoglou, DJ Murphy, R Jones, S Wu, GD Girnun, and WX Zong (2015). Oncogenic Myc induces expression of glutamine synthetase through promoter demethylation. *Cell Metabolism*.
6. N Sheshadri, JM Catanzaro, **AJ Bott**, Y Sun, E Ullman, El Chen, JA Pan, S Wu, HC Crawford, J Zhang, and WX Zong (2014). SCCA1/SERPINB3 promotes oncogenesis and epithelial-mesenchymal transition via the unfolded protein response and IL6 signaling. *Cancer Research*.

* indicates equal contribution

Reviews

1. **AJ Bott**, S Maimouni, and WX Zong (2019). The pleiotropic effects of glutamine metabolism in cancer. *Cancers*.

Research Support

K00CA212445-01

MYC-INDUCED EXPRESSION OF GLUTAMINE SYNTHETASE

- Active

NIH-NCI

09/01/2019-8/31/2022

F99CA212445

MYC-INDUCED EXPRESSION OF GLUTAMINE SYNTHETASE

- Completed

NIH-NCI

09/01/2016-08/31/2018

F31CA203392-01A1

MYC-INDUCED EXPRESSION OF GLUTAMINE SYNTHETASE

- Declined

NIH-NCI

08/01/2016-07/31/2019

Invited Oral Presentations

Tristate Cancer Metabolism Meeting

PRINCETON, NJ

04/22/2016

The Annual Retreat on Cancer Research in New Jersey

NEW BRUNSWICK, NJ

05/20/2015

Conference and Poster Presentations

National Cancer Institute - K00 Fellows Meeting

BETHESDA, MD

1/16/20

Cell Symposia - Metabolites as Signaling Molecules

SEATTLE, WA

12/10/18

New York Academy of Science - Targeting Cancer Metabolism and Signaling

NEW YORK, NY

5/25/17

National Cancer Institute - F99 Fellows Meeting

BETHESDA, MD

1/13/17

Keystone Symposium - New Frontiers in Understanding Tumor Metabolism

BANFF, ALBERTA, CANADA

2/22/16

Gloria and Mark Snyder Symposium for Cancer Medicine

STONY BROOK, NY

5/13/15

Keystone Symposium - Integrating Metabolism and Tumor Biology

VANCOUVER, BRITISH COLUMBIA, CANADA

1/14/15

Molecule Genetics and Microbiology Annual Department Retreat

PORT JEFFERSON, NY

10/10/14

Awards

Anthony Lu Best Paper Award

RUTGERS UNIVERSITY

2015

Gallo Award for Scientific Excellence

RUTGERS UNIVERSITY

2015

Best Poster Award - Gloria and Mark Snyder Symposium for Cancer Medicine

STONY BROOK UNIVERSITY

2015

Best Power Award - Department of Molecular Genetics and Microbiology Annual Retreat

STONY BROOK UNIVERSITY

2014

Degree with Distinction

UNIVERSITY OF DELAWARE

2012

Undergraduate Research Fellowship

UNIVERSITY OF DELAWARE

2011

Workshops

Statistical Methods for Functional Genomics

COLD SPRING HARBOR LABORATORY

2019

Teaching

Laboratory Techniques in Cancer Biology

STONY BROOK UNIVERSITY

2013

General Genetics

STONY BROOK UNIVERSITY

2012

Introductory Biology I and II

UNIVERSITY OF DELAWARE

2011 - 2012