# Marina N. Sharifi

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2002 - 2006

2008 – present University of Chicago Medical Scientist Training Program, Pritzker School

of Medicine.

**Ph.D.** in Cancer Biology, March 2014; Advisor: Kay Macleod, PhD.

Dissertation committee: Ernst Lengyel, MD, PhD (Chair), Geoffrey Greene,

PhD, and Suzanne Conzen, MD. **M.D.**, June 2016 (anticipated).

University of California Berkeley.

**B.A.** in Molecular and Cellular Biology, with Honors.

**B.A.** in German, with Highest Honors.

Highest distinction in general scholarship (summa cum laude).

Honors and Awards

2014 American Association of Cancer Research (AACR) Scholar-in-Training

Award (awarded to <10% of trainee presenters at the AACR annual

meeting).

2014 Dissertation Award, University of Chicago Committee on Cancer Biology.

(awarded to one dissertation per year).

2012 – 2013 Elaine Ehrman Scholarship, University of Chicago Cancer Center

Research Foundation.

2007 Spencer W. Brown Award for distinction in undergraduate genetics

research, Department of Molecular and Cellular Biology, UC Berkeley.

2007 Departmental Citation, Department of German, UC Berkeley.

Work Experience

2006 – 2008 Staff Research Associate: UC Berkeley, Department of Plant and

Molecular Biology.

Principal Investigator: Krishna Niyogi, PhD.

- Participated in experimental design and execution for multiple research

projects in the lab.

Managed ordering and inventory for the 16 member lab.

Direct supervisor of 2-3 undergraduate work-study students.

Research Experience

2010 – 2014 Doctoral Research: University of Chicago, Committee on Cancer Biology.

Advisor: Kay Macleod, PhD.

Identified a novel function for autophagy in tumor cell migration in vitro and metastasis in vivo in a mouse model of metastatic breast cancer

2006 - 2008Staff Research Associate: University of California, Berkeley, Department

of Plant and Molecular Biology.

Principal Investigator: Krishna Niyogi, PhD.

Identified and cloned novel genes required for chlorophyll biosynthesis in the photosynthetic model organism Chlamydomonas reinhardtii.

Undergraduate Honors Thesis Research: University of California,

Berkeley, Department of Plant and Molecular Biology. Advisors: Krishna Niyogi, PhD, Sharon Amacher, PhD.

Identified novel genes required for carotenoid pigment biosythesis in Chlamydomonas reinhardtii

#### **Publications**

## Peer-reviewed Journal Articles

Kuo, W, Sharifi, MN, Lingen, M, Karrison, T, Nagilla, M, Macleod, KF, and Cohen, E. p62/SQSTM1 Accumulation in Squamous Cell Carcinoma Of Head And Neck Predicts Sensitivity to Phosphatidylinositol 3-Kinase Pathway Inhibitors. PLoS One. 2014 Mar 5;9(3):e90171. PMID: 24599075

Dent RM, Sharifi MN, Malnoë A, Haglund C, Calderon RH, Wakao S, Niyogi KK. Large-scale insertional mutagenesis of Chlamydomonas supports phylogenomic functional prediction of photosynthetic genes and analysis of classical acetate-requiring mutants. Plant J. 2015 Apr;82(2):337-351. PMID: 25711437

Tran, PT, Sharifi, MN, Poddar, S, Dent, RM, and Niyogi, KK. Intragenic enhancers and suppressors of phytoene desaturase mutations in Chlamydomonas reinhardtii. PLoS One. 2012;7(8):e42196. PMID: 22912689

#### Invited Reviews

Sharifi MN, Mowers EE, Drake LE, Macleod KF. Measuring autophagy in stressed cells. Methods Mol Biol. 2015;1292:129-50. PMID: 25804753.

#### Oral Presentations

Sharifi, MN, Collier, C, Drake, L, Chen, H, Zamora, M, Mui, S, and Macleod, KF (2013). Autophagy is required for focal adhesion turnover, tumor cell motility, and metastasis. Cancer Biology Training Consortium Annual Meeting, Wilmington, NC.

Sharifi, MN, Collier, C, Drake, L, Chen, H, Mui, S, and Macleod, KF (2011). Loss of autophagy limits metastasis in the 4T1 mouse model of breast cancer. University of Chicago Biomedical Sciences Cluster Retreat, Fontana, WI.

## Poster Presentations

2005 - 2006

<u>Sharifi, MN, Collier, C, Drake, L, Chen, H, Zamora, M, Mui, S, and Macleod, KF (2014).</u> Autophagy is required for focal adhesion turnover, tumor cell motility, and metastasis. American Association for Cancer Research Annual Meeting, San Diego, CA.

<u>Sharifi, MN,</u> Collier, C, Drake, L, Chen, H, Mui, S, and Macleod, KF (2013). Autophagy is required for metastasis in the 4T1 mouse model of breast cancer. Keystone Symposium on Tumor Metabolism, Keystone, CO, February 2013.

<u>Sharifi, MN, Collier, C, Drake, L, Chen, H, Mui, S, and Macleod, KF (2012).</u> Loss of autophagy limits metastasis in the 4T1 mouse model of breast cancer. Joint Meeting of the American Physician Scientist Association/American Society for Clinical Investigation, Chicago, IL.

<u>Sharifi, MN, Collier, C, Drake, L, Chen, H, Mui, S, and Macleod, KF (2011).</u> Loss of autophagy limits metastasis in the 4T1 mouse model of breast cancer. Keystone Symposium on Autophagy, Whistler, B.C., March 2011.

# **Teaching Experience**

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Teaching Assistant, Molecular Mechanisms of Cancer Biology

University of Chicago Biological Sciences Division

Course Director: Kay Macleod, PhD

- Delivered two lectures on current topics in cancer biology for this graduate – level course
- Wrote and graded essay-style exam questions
- Held weekly office hours to assist students with course assignments

2012

Teaching Assistant Training Course, University of Chicago.

#### Service

2014 – present

Peer Mentor, American Physician Scientist Association

- Providing one on one peer mentoring to undergraduate students interested in physician scientist careers.
- 2012 present

MSTP Student Council, Pritzker School of Medicine

- Organized programmatic events to promote peer-to-peer and facultystudent mentorship.
- 2012 2014

MSTP Grand Rounds Student Leader, Pritzker School of Medicine

 Organized and led monthly discussions of clinical cases focusing on clinical reasoning and pathophysiology of disease with a group of 8-10 MSTP students across all years of training.

2008 – 2010

Medical Students for Choice Chapter, Pritzker School of Medicine

- Helped organize and run school-wide events to promote discussion and education related to reproductive health.

#### Hobbies and Interests

Fluent in German; Classical violinist (University of Chicago Symphony member 2008 – 2012)