

Cunqi Ye, PhD
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RESEARCH INTERESTS

My research focuses on fundamental principles underlying metabolic processes and key intermediary metabolites during environmental adaptation. I am particularly interested in cellular regulation and mechanisms for phospholipid and sulfur/methionine metabolism, and their implications for human diseases.

EDUCATION AND TRAINING

2015.01-2018.07	Postdoc	UT Southwestern Medical Center
2008.09-2014.08	Ph.D.	Wayne State University
2002.09-2006.06	B.S.	Nanjing University

RESEARCH EXPERIENCE

2019.09-	Principal Investigator in the Life Sciences Institute at Zhejiang University
2018-2019	Principal Investigator and Assistant Instructor in the Department of Biochemistry at UT Southwestern Medical Center
2015-2018	Postdoctoral Researcher with Dr. Benjamin P. Tu in the Department of Biochemistry at UT Southwestern Medical Center
2008-2014	Graduate Research Assistant with Dr. Miriam L. Greenberg in the Department of Biological Sciences at WSU
2002-2006	Undergraduate research with Prof. Cheng Huang in the Department of Life Science at NJU

AWARDS AND HONORS

2019	Dean's Discretionary Award
2019	Finalist for the Brown-Goldstein Award for Excellence in Postdoctoral Research
2018-	NIH/NIGMS K99/R00 Pathway to Independence Award
2017	Gordon Research Conference Travel Support
2017	Chilton Fellowship Award
2016	Finalist for the Life Sciences Research Foundation Fellowship
2015	Nomination for CGS/ProQuest Distinguished Dissertation Award

2014	Barth Syndrome Foundation Conference Travel Award
2014	American Society for Biochemistry and Molecular Biology Travel Award
2014	Keystone Symposia Future of Science Fund Scholarship
2013	Thomas C. Rumble University Graduate Fellowship
2013	WSU Dissertation Fellowship
2013	WSU Graduate Student Professional Travel Award
2013	Outstanding Graduate Research Assistant Award
2010, 2012, 2013	WSU Graduate Enhancement Research Award
2008	Thomas C. Rumble University Graduate Fellowship
2004, 2005, 2006	Nanjing University Undergraduate Scholarship Awards

RESEARCH SUPPORT

K99/R00 GM129415 Ye (PI) 07/18/18-06/30/2023
 Cellular and physiological basis for regulation of phosphatidylethanolamine methylation **\$930,000**
 The goal of this project is to understand how phospholipid methylation translates environmental cues into regulatory signals for metabolic adaptation.
 Role: PI

Chilton Fellowship Award Ye (awardee) 09/01/17-08/30/2018
 Role: Fellowship awardee **\$30,000**

SELECTED PUBLICATIONS

1. Haws SA, Yu D, **Ye C**, Wille CK, Nguyen LC, Krautkramer KA, Tomasiewicz JL, Yang SE, Miller BR, LiuWH, Igarashi K, Sridharan R, Tu BP, Cryns VL, Lamming DW, Denu JM (2020) Methyl-metabolite depletion elicits adaptive responses to support heterochromatin stability and epigenetic persistence. *Mol. Cell* 78(2):210-223.
2. Kuang Z, Wang Y, Li Y, **Ye C**, Ruhn KA, BehrendtCL, Olson EN, Hooper LV (2019) The intestinal microbiota programs diurnal rhythms in host metabolism through histone deacetylase 3. *Science* 365(6460):1428-1434.
3. **Ye C**, Sutter BM, Wang Y, Kuang Z, Zhao X, Yu Y, Tu BP (2019) Demethylation of the protein phosphatase PP2A promotes demethylation of histones to enable their function as a methyl group sink. *Mol. Cell.* 73(6):1115-1126.
4. **Ye C** and Tu BP (2018) Sink into the Epigenome: Histones as repositories that influence cellular metabolism. *Trends in Endocrinology & Metabolism.* 29(9): 626-637.
5. **Ye C**, Sutter BM, Wang Y, Kuang Z, Tu BP (2017) A metabolic function for phospholipid and histone methylation. *Mol. Cell.* 66(2):180-193.
Research highlight in *Nature Reviews Molecular Cell Biology, Cell Chemical Biology, Molecular cell, and UTSW news*
6. Yu W*, **Ye C***, and Greenberg ML (2016) Inositol hexakisphosphate kinase 1 (IP6K1) regulates inositol synthesis in mammalian cells. *J. Biol. Chem.* 291(20): 10437-10444.
Selected for "Papers of the Week" in *JBC*

7. **Ye C**, Shen Z, and Greenberg ML (2016) Cardiolipin remodeling: a regulatory hub for modulating cardiolipin metabolism and function. *J. Bioenerg. Biomembr.* 48(2): 113-123.
8. **Ye C** and Greenberg ML (2015) Inositol synthesis regulates activation of GSK-3 α in neuronal cells. *J. Neurochem.* 133(2):273-83.
9. Shen Z, **Ye C**, McCain K, and Greenberg ML (2015) The role of cardiolipin in cardiovascular health. *BioMed Res. Int.* 2015:891707.
10. **Ye C***, Lou W*, Li Y, Chatzisprou IA, Hüttemann M, Lee I, Houtkooper RH, Vaz FM, Chen S, Greenberg ML.(2014) Deletion of the cardiolipin-specific phospholipase Cld1 rescues growth and lifespan defects in the tafazzin mutant: Implications for Barth syndrome. *J. Biol. Chem.* 289(6):3114-25.
11. **Ye C**, Bandara WMMS, Greenberg ML (2013) Regulation of inositol metabolism is fine-tuned by inositol pyrophosphates in *Saccharomyces cerevisiae*. *J. Biol. Chem.* 288(34):24898-908.
Selected for "Papers of the Week" in JBC

PRESENTATIONS

1. **Ye C**, Tu BP (2019) Synthesis of membrane phospholipids influences redox metabolism to promote cell growth and survival
Discussion leader and oral presentation at Gordon Research Seminar
Poster presentation at Gordon Research Conference on Molecular and Cellular Biology of Lipid, Waterville Valley, NH
2. **Ye C**, Tu BP (2019) Synthesis of membrane phospholipids influences redox metabolism to promote cell growth and survival
Oral presentation at Yeast Lipid Conference, Ljubljana, Slovenia
3. **Ye C**, Sutter BM, Wang Y, Kuang Z, Zhao X, Yu Y, Tu BP (2019) Demethylation of the protein phosphatase PP2A promotes demethylation of histones to enable their function as a methyl group sink
Poster presentation at Nature Conference on Cellular Metabolism, Xiamen, China
4. **Ye C**, Sutter BM, Tu BP (2019) Transcriptional regulation of sulfur metabolism by phospholipid methylation
Poster presentation at Deuel Conference, Dana Point, CA
5. **Ye C** (2018) Histones: Tunable methyl repositories by membrane phospholipids and the phosphatase PP2A
Invited seminar speaker, Department of Biochemistry at UTSW, Dallas TX
6. **Ye C** (2018) The methyl sink function for phospholipid and histone methylation
Invited seminar speaker, Lipids@Wayne, Detroit, MI
7. **Ye C**, Sutter BM, Wang Y, Kuang Z, Tu BP (2017) An unforeseen function for phospholipid methylation in cellular metabolism and maintenance of the epigenome
Oral and poster presentation at Gordon Research Conference on Molecular and Cellular Biology of Lipid, Waterville Valley, NH
8. **Ye C**, Sutter BM, Wang Y, Kuang Z, Tu BP (2017) A metabolic function for phospholipid and histone methylation
Oral presentation, Biological Chemistry and Organic Chemistry Joint Programs Research Symposium at UTSW, Dallas, TX

9. **Ye C**, Sutter BM, Kuang Z, Tu BP (2016) Phospholipid methylation regulates sulfur homeostasis in coordination with maintenance of the epigenome
Poster presentation at **The Allied Genetics Conference**, Orlando, FL
10. **Ye C**, Lou W, Li Y, Chatzisprou IA, Hüttemann M, Lee I, Houtkooper RH, Vaz FM, Chen S, Greenberg ML (2014) Deletion of the cardiolipin-specific phospholipase Cld1 rescues growth and lifespan defects in the tafazzin mutant: Implications for Barth syndrome
Poster presentation at **Barth Syndrome Foundation Conference**, Clearwater, FL
11. **Ye C**, Lou W, Li Y, Chatzisprou I.A., Hüttemann M, Lee I, Houtkooper RH, Vaz FM, Chen S, Greenberg ML (2014) Deletion of the cardiolipin-specific phospholipase Cld1 rescues growth and lifespan defects in the tafazzin mutant: Implications for Barth syndrome
Poster presentation at **ASBMB Annual Meeting**, San Diego, CA
12. **Ye C** and Greenberg M L (2014) Transcriptional regulation of the cardiolipin-specific phospholipase Cld1 responds to mitochondrial respiration and modulates energy dynamics
Oral presentation at **Lipids@Wayne**, Detroit, MI
13. **Ye C**, Lou W, Li Y, Hüttemann M, Lee I, Houtkooper RH, Vaz FM, Chen S, Greenberg ML (2014) Transcriptional regulation of the cardiolipin-specific phospholipase Cld1 is essential for mitochondrial respiration and integrity
Poster presentation at **Keystone Symposia**, Aging - Pushing the Limits of Cellular Quality Control, Steamboat Springs, CO
14. **Ye C**, Bandara WMMS, Greenberg ML (2013) Regulation of inositol metabolism is fine-tuned by inositol pyrophosphates
Poster presentation at **GRC on Molecular and Cellular Biology of Lipid**, WatervilleValley,NH
15. **Ye C** and Greenberg ML (2013) The regulation of inositol biosynthesis is fine-tuned by inositol pyrophosphates
Oral and Poster presentation at **11th Yeast Lipids Conference**, Halifax, Nova Scotia
16. **Ye C** and Greenberg ML (2012) Inositol biosynthesis is fine-tuned by inositol pyrophosphates
Oral presentation at **WSU Annual Departmental Retreat**, Bloomfield Hills, MI

LEADERSHIP ACTIVITIES AND HONORARY WORK

2019-	Discussion Leader and Planning Committee member, Gordon Research Seminar
2018	Co-Chair, UTSW-PDA International Committee
2018	Member, UTSW-PDA Symposium Planning Committee
2016	Poster Judge/Session Monitor, The Allied Genetics Conference
2006-2007	Management Trainee, PepsiCo
2003-2004	Founding President, Life Science Student Association at NJU

PROFESSIONAL ACTIVITIES

2009-	The American Association for the Advancement of Science (AAAS)
2013-	The American Society for Biochemistry and Molecular Biology (ASBMB)
2014-2016	The American Heart Association (AHA)