

Curriculum Vitae

Sin Man (Sabrina) Mak, Ph.D.
A.C.C.E.S.S. Office 972-238-6140
smak@dcccd.edu

Richland College
12800 Abrams Road
Dallas, TX 75243

EDUCATION

- 2014 Ph.D. Cancer Biology, Department of Cell Biology
University of Texas Southwestern Medical Center at Dallas
Dissertation: Development of a Novel T-loop Assay to Investigate Telomere Structure and Dynamics
- 2006 B.S. Chemistry, Minor Biology, Department of Chemistry, School of Science and Engineering
Seattle University

TEACHING EXPERIENCE:

Richland College-Dallas, TX 75243

Current Adjunct Professor in Biology, School of Mathematics, Science and Health Professions
Classes: Anatomy and Physiology I and II (BIOL2401, 2402)

Dallas Baptist University-Dallas, TX 75211

2015-Current Adjunct Professor in Biology, College of Natural Sciences and Mathematics
Classes: Principles of Biology for non-science majors (BIOL1401)

Southern Methodist University-Dallas, TX 75205

Current Adjunct Professor in Biology, Department of Biological Sciences, College of Humanities and Sciences
Classes: Essentials of Biology (BIOL1300)

PUBLICATIONS

Chow, Tracy T.; Zhao, Yong; **Mak, Sabrina S.M.**; Shay, Jerry W.; Wright, Woodring E. [Early and Late Steps in Telomere Overhang Processing in Normal Human Cells: The Position of the Final RNA Primer Drives Telomere Shortening.](#) *Genes Dev.* 26(11):1167-78 (2012).

Harmon, Jamie S.; Bogdani, Marika; Parazzoli, Susan D.; **Mak, Sabrina S.M.**; Oseid, Elizabeth A.; Berghmans, Marleen; LeBoeuf, Renee C.; Robertson, R. Paul. [β-Cell-Specific Overexpression of Glutathione Peroxidase Preserves Intranuclear MafA and Reverses Diabetes in db/db Mice.](#) *Endocrinology* 150(11):4855-62 (2009).

MANUSCRIPTS IN PREPARATION

Mak, Sabrina S.; Smiraldo, Phillip G.; Chow, Tracy T.; Shay, Jerry W.; Wright, Woodring E. T-loops are Refolded after Telomerase Extension and Must Unfold Again at Late S/G2 for C-strand Fill-in: Purification and Biochemical Assay for T-loops.

EDITING/REVISION

Chow, Tracy T.; **Mak, Sabrina S.M.**; Shay, Jerry W.; Wright, Woodring E. [Telomeres.](#) *Brenner's Encyclopedia of Genetics (Second Edition)* 38-43 (2013).

TECHNICAL SKILLS

Cell Biology: Transmission electron microscopy, scanning electron microscopy, light microscopy, tissue culture
Molecular Biology: Southern and Western blotting, PCR, branch migration assay
Biochemistry: Development of biochemical assays, telomere purification, cesium chloride gradient density separation of DNA