Vitae- Sagar, Gunisha

gunisha_sagar@tamuct.edu

Texas A&M University – Central Texas

1002 Leadership Place, Killeen, TX 76549

Education

Ph.D. Molecular Biology, Texas Woman's University (TWU), Denton, TX.

M.S. Biotechnology, Hamdard University, New Delhi, India.

B.S. Microbiology (Hons), Delhi University, New Delhi, India.

Employment

June 17, 2019-Present: Science Laboratory Coordinator I, Department of Science and Mathematics, Texas A& M University-Central Texas, Leadership place, Killeen, TX.

August 27, 2018-May 10, 2019: Adjunct Faculty, College of Arts and Sciences, Texas A& M University-Central Texas, Leadership place, Killeen, TX.

November 13, 2017-June 28, 2018: Medical Technologist (Certified), Molecular Pathology Laboratory, Baylor Scott & White, Medical Center, Temple, TX.

January 9, 2017-May 10, 2017: Adjunct faculty at Rochester Community and Technical College, Rochester, MN.

Nov 15, 2016-Nov 12, 2017: Post-Doctoral Research Fellow, Ovarian Cancer Biology Laboratory, Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN.

April 20, 2016-Sept 30, 2016: Clinical Lab Technologist in Cytogenetic Lab, Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN.

December 2015-April 2016: Post-Doctoral Research Fellow, Immunochemical Core Laboratory (Part-time), Mayo Clinic, Rochester, MN.

March 2015-December 2015**:** Post-Doctoral Research Fellow, Ovarian Cancer Biology laboratory, Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN.

March 2012- March 2015**:** Post-Doctoral Research Fellow, funded by NIH training Grant CA148073, Vascular Biology and angiogenesis Laboratory, Department of Biochemistry and Molecular Biology, Mayo Clinic, Rochester, MN.

August 2011-May 2012**:** Adjunct Faculty at Rochester Community and Technical College, Rochester, MN.

March 2009-March 2011**:** Post-Doctoral Research Fellow in Department of Pharmacology and Experimental Therapeutics, Neurobiology laboratory, Mayo Clinic, Rochester. MN.

August 2002-August 2008: Graduate Teaching Assistant, Biology Department, Texas Woman's University, Denton, TX.

Honors and Awards

- **Qualified UGC-NET Examination** (National Level) in life Sciences in Dec 2001 and got Junior Research Fellowship (JRF).
- **Qualified ICMR** (Indian Council of Medical Research) JRF Examination in April 2001.
- **Qualified GATE** (Graduate Aptitude test in Engineering) in Feb 2001.
- **Travel Award Fellowship**: From TWU to attend Yeast Genetics and Molecular Biology meeting in summer 2004, University of Washington, Seattle. USA.
- **Best Poster Award**: 32nd Annual Meeting of the Texas Genetics Society, Dallas, USA, TX, April 7-9th, 2005.
- **Scholarship:** Gretna Cobbs Bedford Davis and Zenda Ma Wimberly Scholarship awarded by TWU Former Students Association in 2005.

- **Best Poster Award**: 33rd Annual Meeting of the Texas Genetics Society, Moody Gardens, Galveston, Texas, USA, April 6-8th, 2006.

Certification

MB (ASCP) CM 4043-Certified on 02/18/2017

Valid: 02-18-17 to 02-28-2020, ID#25596796

Educational Activities

- **Research Assistant:** Indian Institute of Technology, Department of Biochemical Engineering and Biotechnology, New Delhi, Aug 2000- July 2002.
- **Research Assistant**: Biology Department, Texas Woman's University, Denton, TX 76204, summer 03 and summer 04.

Publications

- Mariani, A, Wang, C, Oberg, AL, Riska, SM, Torres ,M, Kumka, J, Multinu, F, **Sagar, G**, Roy, D, Jung, DB, Zhang, Q, Grassi, T, Visscher, DW, Patel, VP, Jin L, Staub, JK, Cliby, WA, Weroha, SJ, Kalli, KR, Hartmann, LC, Kaufmann, SH, Goode, EL, Shridhar, V. Gynecol Oncol. 2019. pii: S0090-8258(19)31321-6. doi: 10.1016/j.ygyno.2019.06.010. [Epub ahead of print].
- **Sagar, G**, Javeed, N, Dutta, SK, Smyrk, TC, Lau, J.S, Giorgadze, N, Tchkonia, T, Kirkland, J, Chari, ST, Mukhopadhyay D. 2015. Pathogenesis of Pancreatic Cancer Exosome-Induced Lipolysis in Adipose Tissue. Gut Online First, Published on April 28, 2015. 10.1136/gutjnl-2014-3083.
- Javeed N, **Sagar G,** Dutta SK, Smyrk T, Lau JS, Bhattacharya S, Truty MJ, Petersen GM, Kaufman RJ, Chari ST, Mukhopadhyay, D. 2014. Pancreatic

Cancer-derived Exosomes Causes Paraneoplastic β-cell Dysfunction. Clin Cancer Res. (Published Online).

- Vohra, PK, Hoeppner, LK, **Sagar, G**, Hubmayr RD, Mukhopadhyay D. 2012. Dopamine inhibits pulmonary edema through the VEGF-VEGFR2 axis in a murine model of acute lung injury. Am J Physiol Lung Cell Mol Physiol. 302(2): L 185-92.

Presentations at National or International Meetings

- **G. Sagar** and H.C Webb (2005). A screen for regulatory factors that influence Pol II ribosomal synthesis in *Saccharomyces cerevisiae*. 32nd Annual Meeting of the Texas Genetics Society, Dallas, USA, TX, April 7-9th **(Best Poster Award)**.
- **G. Sagar** and H.C Webb (2006). Regulatory factors that stimulate the synthesis of rRNA by RNA polymerase II in *Saccharomyces cerevisiae*. 33rd Annual Meeting of the Texas Genetics Society, Moody Gardens, Galveston, Texas, USA, April 6-8th (**Best Poster Award**).
- **G. Sagar** and H.C Webb (2007). Regulatory factors that stimulate the synthesis of rRNA by RNA polymerase II in *Saccharomyces cerevisiae*. 34th Annual Meeting of the Texas Genetics Society, Sheraton Gunter Hotel, San Antonio, Texas, USA, April 12-14th.
- **G. Sagar** and H.C Webb (2007). Regulatory factors stimulating synthesis of rRNA by RNA polymerase II in *Saccharomyces cerevisiae.* 2007 Student Creative Arts and Research Symposium, TWU, Denton, TX, April 17-18th.
- **G. Sagar** and I.V Kovtun (2010). Mammalian cell model to study CAG repeat instability upon replication. Mayo Clinic Young Investigator Research Symposium, Rochester, MN, March 28-29th.
- **G. Sagar** and D. Mukhopadhyay (2014). Pathogenesis of pancreatic cancer exosome-induced lipolysis in adipose tissue. 6th Mayo Clinic Angiogenesis Symposium: From Basic Science and Clinical Applications to patient Care, Rochester, MN, August 22-24th.

- **G. Sagar** and H. Conrad-Webb (2008) Pathways activating synthesis of rRNA by RNA Polymerase II in *Saccharomyces cerevisiae***.** Student Creative Arts and Research Symposium, Department of Biology, TWU, Denton, TX, April 22-23th.

Articles Reviewed

- Exosomes derived from pancreatic stellate cells: microRNA signature and effects on pancreatic cancer cells. Pancreas Journal. 01/12/2016.