

Vitae- Sagar, Gunisha

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**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

August 27, 2018-December 14, 2018: 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

- **Sagar, G**, Javeed, N, Dutta, SK, Smyrk, TC, Lau, J.S, Giorgadze, N, Tchkonina, 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, Hoepfner, 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.