

## BIOGRAPHICAL SKETCH

**Name :** DR. SURABHI GUPTA

**Designation :** Assistant Professor

**Institute/University :** Dept. of Reproductive Biology, All India Institute of Medical Sciences,  
New Delhi – 110029, INDIA.

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**Education** (Post-Graduation onwards & Professional Career)

Sl No.	Institution Place	Degree Awarded	Year	Field of Study
1.	Banaras Hindu University, Varanasi, India	M.Sc.	1995	Biotechnology
2.	All India Institute of Medical Sciences, New Delhi, India	Ph.D.	2002	Biochemistry Thesis Title: Expression of Cell Adhesion Molecules & Integrins in Trophoblast Cells

**Position and Employment** (Starting with the most recent employment)

Sl No.	Institution Place	Position	From (Date)	To (date)
1.	Dept of Reproductive Biology, AIIMS, New Delhi, India.	Assistant Professor	May, 2014	Till date
2.	Dept of Gastroenterology, AIIMS, New Delhi, India.	Senior Research Officer	2013	2014
3.	Dept of Gastroenterology, AIIMS, New Delhi, India.	Research Associate	2011	2013
4.	Molecular & Cellular Biology, College of Biological Sciences, University of California Davis, Davis, CA, USA.	Post-Doctoral Researcher	2002	2009
5.	Department of Cell Biology, University of Texas Southwestern Medical Center, Dallas, TX, USA.	Post-Doctoral Research Fellow	2001	2002

## **Publications**

### **Journal Articles:**

1. Ankit Roy Choudhury, **Surabhi Gupta**, Pradeep Kumar Chaturvedi, Neeraj Kumar, Deepak Pandey. Mechanobiology of cancer stem cells and their niche. *Cancer Microenvironment*. (Accepted). doi: 10.1007/s12307-019-00222-4.
2. Bodhana Dhole, **Surabhi Gupta**, Senthil Kumar Venugopal, Anand Kumar. Triiodothyronine stimulates VEGF expression and secretion via steroids and HIF-1 $\alpha$  in murine Leydig cells. *Systems Biology in Reproductive Medicine*. 2018 Jun; 64(3): 191-201. doi: 10.1080/19396368.2018.1433248.
3. Sumaira Rashid\*, Nidhi Singh\*, **Surabhi Gupta**\*, Safoora Rashid, Nandini Nalika, Vikas Sachdev, Chandra Sekhar Bal, Siddhartha Datta Gupta, Shyam S. Chauhan, Anoop Saraya. Progression of Chronic Pancreatitis to Pancreatic Cancer: Is There a Role of Gene Mutations as a Screening Tool? *Pancreas*. 2018 Feb; 47(2): 227-232. [\*Co-first authors]
4. Nidhi Singh, **Surabhi Gupta**, Ravindra M. Pandey, Peush Sahni, Shyam S. Chauhan, Anoop Saraya. Prognostic significance of plasma matrix metalloprotease-2 in pancreatic cancer patients. *Indian Journal of Medical Research*. 2017 Sep; 146: 334-340.
5. Nidhi Singh, **Surabhi Gupta**, R M Pandey, Shyam S Chauhan and Anoop Saraya. High levels of cell-free circulating nucleic acids in pancreatic cancer are associated with vascular encasement, metastasis and poor survival. *Cancer Investigation*. 2015 Mar; 33(3): 78-85.
6. Nidhi Singh, Prasenjit Das, **Surabhi Gupta**, Vikas Sachdev, Siddhartha Srivasatava, Siddhartha Datta Gupta, R. M. Pandey, Shyam S. Chauhan, Anoop Saraya. Plasma Cathepsin L: A Prognostic Marker for Pancreatic Ductal Adenocarcinoma. *World J Gastroenterol*. 2014 Dec; 20(46): 17532-40.
7. Nidhi Singh, Prasenjit Das, **Surabhi Gupta**, Siddhartha Datta Gupta, Peush Sahni, R M Pandey, Shyam S Chauhan and Anoop Saraya. Prognostic significance of extracellular matrix degrading enzymes – Cathepsin L and matrix metalloproteases-2 [MMP-2] in human pancreatic cancer. *Cancer Investigation*. 2013 Aug; 31(7): 461-71.
8. Hitoshi Nishimura, **Surabhi Gupta**, Diana G Myles and Paul Primakoff. Characterization of mouse sperm TMEM190, a small transmembrane protein with the trefoil domain: evidence for co-localization with IZUMO1 and complex formation with other sperm proteins. *Reproduction*. 2011 Apr; 141(4): 437-51.
9. Diego A Ellerman, Jimin Pei, **Surabhi Gupta**, William J Snell, Diana G Myles, Paul Primakoff. Izumo is part of a multiprotein family whose members form large complexes on mammalian sperm. *Mol Reprod Dev*. 2009 Dec; 76(12): 1188-99.
10. Guo Z Zhu, **Surabhi Gupta**, Diana G Myles, Paul Primakoff. Testase 1 (ADAM 24) a sperm surface metalloprotease is required for normal fertility in mice. *Mol Reprod Dev*. 2009 Nov; 76(11): 1106-14.
11. **Surabhi Gupta**, Paul Primakoff, Diana G Myles. Can the presence of wild-type oocytes during insemination rescue the fusion defect of CD9 null oocytes? *Mol Reprod Dev*. 2009 Jul; 76(7): 602.

12. Zhiyong He, **Surabhi Gupta**, Diana G. Myles, Paul Primakoff. Loss of EWI-2 on the surface of CD9 null oocytes. *Mol Reprod Dev.* 2009 Jul; 76(7): 629-36.
13. Kathryn E. Runge, James E. Evans, Zhiyong He, **Surabhi Gupta**, Kent L. McDonald, Henning Stahlberg, Paul Primakoff, Diana G. Myles. Oocyte CD9 is enriched on the microvillar membrane and required for normal microvillar shape and distribution. *Developmental Biology.* 2007 Apr; 304(1): 317-25.
14. Michael J. Misamore, **Surabhi Gupta**, William J. Snell. The *Chlamydomonas* Fus1 protein is present on the mating type plus fusion organelle and required for a critical membrane adhesion event during fusion with minus gametes. *Molecular Biology of Cell.* 2003 Jun; 14(6): 2530-42.
15. Chandana Das, V. Senthil Kumar, **Surabhi Gupta**, Sunesh Kumar. Network of cytokines, integrins and hormones in human trophoblast cells. *Journal of Reproductive Immunology.* 2002 Jan; 53(1-2): 257-68.
16. Chandana Das, V. Senthil Kumar, Sayantani Basak, **Surabhi Gupta**, Sunesh Kumar. Immunobiology of trophoblast cells. *Indian Journal of Clinical Biochemistry.* 2000; 15(suppl.): 60-64.
17. **Surabhi Gupta**, V. Senthil Kumar and Chandana Das. Expression and modulation of cell adhesion molecules in trophoblast cells. *The Immunologist.* 1998; Suppl. 1: 68.
18. V. Senthil Kumar, **Surabhi Gupta** and Chandana Das. Interleukins in maternal-fetal interaction. *The Immunologist.* 1998; Suppl. 1: 69.
19. V. Senthil Kumar, **Surabhi Gupta** and Chandana Das. Endotoxin regulated expression of interleukins in human trophoblast cells. *American Journal of Reproductive Immunology.* 1998; 40: 263.

#### **Book Chapters:**

1. **Surabhi Gupta**, Mona Sharma, Anand Kumar. Seminal Vesicles. In: *Basics of Human Andrology: A Textbook.* Eds: Anand Kumar & Mona Sharma. Publisher: Springer (2017) ISBN: 978-981-10-3694-1.
2. **Surabhi Gupta**, Anand Kumar. Genital Ducts and Other Accessory Sex Glands. In: *Basics of Human Andrology: A Textbook.* Eds: Anand Kumar & Mona Sharma. Publisher: Springer (2017) ISBN: 978-981-10-3694-1.
3. **Surabhi Gupta**, Anand Kumar. The Human Semen. In: *Basics of Human Andrology: A Textbook.* Eds: Anand Kumar & Mona Sharma. Publisher: Springer (2017) ISBN: 978-981-10-3694-1.
4. **Surabhi Gupta**, Anand Kumar. Systemic Influences on Male Reproduction - Immune System. In: *Basics of Human Andrology: A Textbook.* Eds: Anand Kumar & Mona Sharma. Publisher: Springer (2017) ISBN: 978-981-10-3694-1.

5. Mona Sharma, **Surabhi Gupta**, Bodhana Dhole, Anand Kumar. The Prostate Gland. In: Basics of Human Andrology: A Textbook. Eds: Anand Kumar & Mona Sharma. Publisher: Springer (2017) ISBN: 978-981-10-3694-1.

### **Ongoing Research Grants**

1. Surabhi Gupta (PI): “Embryo-uterine cross-talk for implantation & beyond: Role for exosomal microRNAs.” Funded by DST (2018 -2021).
2. Surabhi Gupta (PI): “Generation of genome-edited mice using CRISPR/Cas-9 based knock-out/knock-in technology to study mammalian sperm-egg fusion.” Funded by DBT (2017 – 2020).
3. Surabhi Gupta (PI): “Role of 3,5,3’-L-triiodothyronine (T3) in regulating vascular endothelial growth factor (VEGF) expression in MLTC-1, a mouse Leydig cell derived line.” Funded by DBT (2016 – 2019).