

**Dr. MONA SHARMA**

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Assistant Professor

Department of Reproductive Biology

AIIMS, New Delhi

**PROFESSIONAL QUALIFICATION:**

1. DNB (Anatomy) from National Board of Examinations in 2013.
2. MD (Anatomy) from All India Institute of Medical Sciences (AIIMS), New Delhi in May, 2009
3. MBBS from Kasturba Medical College, MAHE, Mangalore, Karnataka.

**EMPLOYMENT DETAILS**

1. Senior Residency at AIIMS, New Delhi from June 12, 2009 to June 11, 2012 (3 Years). Participated actively in undergraduate, nursing as well as post graduate teaching programme.
2. Assistant Professor at Vardhman Mahavir Medical College and Safdarjung Hospital, New Delhi from September 25, 2012 to May 22, 2014.
3. Assistant Professor in the Department of Reproductive Biology since May 23, 2014 till date.

**RESEARCH WORK**

1. High Resolution Sex Chromosome Genome Analysis in Pathogenesis of Premature Ovarian Failure.
2. Study of potential sperm factors and related signaling pathways in eliciting oocyte intracellular calcium rise.
3. Mutational Analysis of HS6ST2: A Candidate Gene In Idiopathic Premature Ovarian Failure.
4. Effect of L-acetyl carnitine on TNF-alpha Induced Apoptosis in mice follicles.
5. Effect of tyrosine kinase inhibitors on sperm parameters and pituitary gonadal axis in males with chronic myeloid leukemia.
6. Etiopathology of hyperprolactinemia.
7. Biomarkers in polycystic ovarian syndrome.
8. Apoptosis in Trophoblastic Cells of Human Placenta in Preeclampsia
9. Anatomical variations in humans as part of UG, PG teaching program.

## **PUBLICATIONS**

### **I: Book Edited**

Kumar A, **Sharma M**. Basics of Human Andrology. 1<sup>st</sup> ed. Springer Nature, Singapore. 2017; 1-536.

### **II: Chapters**

1. **Sharma M**, Gupta S, Dhole B, Kumar A. The Prostate gland. In: Basics of Human Andrology, 1<sup>st</sup> ed. Kumar and Sharma, eds. Springer Nature, Singapore. 2017; 17-35
2. Gupta S, **Sharma M**, Kumar A. Seminal Vesicles. In: Basics of Human Andrology, 1<sup>st</sup> ed. Kumar and Sharma, eds. Springer Nature, Singapore. 2017; 37-45.
3. **Sharma M**, Kumar A. Neurovascular supply and lymphatic drainage of male reproductive organs. In: Basics of Human Andrology, 1<sup>st</sup> ed. Kumar and Sharma, eds. Springer Nature, Singapore. 2017; 55-65.
4. **Sharma M**, Kumar A. The Sperm. In: Basics of Human Andrology, 1<sup>st</sup> ed. Kumar and Sharma, eds. Springer Nature, Singapore. 2017; 171-203.
5. **Sharma M**, Kumar A. Male Sexual Function. In: Basics of Human Andrology, 1<sup>st</sup> ed. Kumar and Sharma, eds. Springer Nature, Singapore. 2017; 251-281.
6. **Sharma M**, Chadda RK, Anish PK, Kumar A. Male Behaviors I: Brain areas regulating male behaviors. In: Basics of Human Andrology, 1<sup>st</sup> ed. Kumar and Sharma, eds. Springer Nature, Singapore. 2017; 293-313.
7. **Sharma M**, Kumar A. Male II: Neural pathways regulating male behaviors Behaviors. In: Basics of Human Andrology, 1<sup>st</sup> ed. Kumar and Sharma, eds. Springer Nature, Singapore. 2017; 315-339.
8. **Sharma M**, Kumar A. Male Behaviors III: Brain polymorphism and sexual orientation. In: Basics of Human Andrology, 1<sup>st</sup> ed. Kumar and Sharma, eds. Springer Nature, Singapore. 2017; 341-347.
9. **Sharma M**, Kumar A. Male Behaviors IV: Ageing brain. In: Basics of Human Andrology, 1<sup>st</sup> ed. Kumar and Sharma, eds. Springer Nature, Singapore. 2017; 349-362.

### **III: Articles**

1. Shivi Goel, Jyoti Arora, Vandana Mehta, **Mona Sharma**, Rajesh Kumar Suri and Gayatri Rath. Unusual disposition of lateral circumflex femoral artery – anatomical description and clinical implications. World J Clin Cases 2015 January 16; 3(1): 85-88.
2. .R. Hansdak, J. Arora, **M. Sharma**, V. Mehta, R K Suri, S. Das. Unusual branching pattern of brachial artery-Embryological basis and clinicoanatomical insight. La Clinica Terapeutica, March 2015, 166: 2;65-7.

3. Shivi Goel, Jyoti Arora, Vandana Mehta, **Mona Sharma**, Rajesh Kumar Suri and Gayatri Rath, Das S. Adductor accessorius- an unusual supernumerary adductor muscles of thigh. *La Clinica Terapeutica*, 2015, May-Jun;166 (3): 117-7.
4. Rustagi SM, **Sharma M**, Singh N, Mehta V, Suri R, Rath G. Peripheral communications of the Intercostobrachial Nerve in relation to the Alar Thoracic Artery. *Advanced Medical Research*, Feb 2015, 1-4.
5. Gandhi S, **Sharma M**, Pakhiddey R, Thakur A, Mehta V, Suri R, Rath G. Unduly extensive uncinata process of pancreas in conjunction with pancreatico- duodenal fold. *Anat Cell Biol*, March 2015; 48: 81-83.
6. **Sharma M**, Hansdak R, Mehta V, Arora J, Suri R, Rath G. An unusual branching pattern of the median cubital vein and its relations with lateral cutaneous nerve of forearm in the upper extremity-anatomicoclinical notes. *JSA*, 2014 (4)1:49-53.
7. **Mona S**, Renu D. Possible developmental origin and clinical implications of a brachial plexus variation. *GJRA*; 3(2): 60-62, 2014.
8. Thakur A, Tapas S, **Sharma M**, Mehta V, Suri R, Rath G. Anatomical description of a variant abductor digiti minimi accessorius muscle and its clinical correlation with ulnar neurovascular entrapment syndrome. *Journal of Surgical Academia* 2014; 4(2):41-44.
9. Gandhi S, **Sharma M**, Pakhiddey R, Mehta V, Suri RK, Rath G. "Unilateral aberrant gonadal venous anatomy coexistent with a distinct intrarenal cleft". *OA Anatomy* 2013 Nov 01;1(3):28.
10. **Sharma M**, Kumar R, Bhatla N, Dhingra R. "A Comparative study of apoptosis in placentas of normal and preeclamptic Indian pregnant women by TUNEL assay and M30 immunostaining. *Journal of clinical laboratory analysis*; 2012: 26: 459-466.
11. **Sharma M**, Kumar R, Dhingra R. "An immunohistochemical study of the syncytial knots in the preeclamptic placentas". *International journal of pharmaceutical research and bioscience*; 2012: 1(4) 228-239.
12. **Sharma M**, Dhingra R, Kumar R. "Relevance of placental pathological changes of maternal inflammatory syndrome along with the obstetric and clinical parameters in preeclampsia". *International journal of scientific and research publications*, 2012; 2(8): 313-320.
13. **Sharma M**, Kumar R, Dhingra R. "Apoptosis: Understanding of the signaling pathways". *International journal of biological and medical research*. 2012; 3(3):2029--2031.
14. **Sharma M**, Kumar R, Dhingra R. "Apoptosis: Searching for the detection techniques". *International journal of biological and medical research*. 2012; 3(3):2172-2175.
15. **Sharma M**, Kumar R, Dhingra R. "Apoptosis: Researching the clinical implications". *JIMSA July-Sept*. 2014;27(3).

#### **IV: Abstracts**

1. “Sex Chromosome Aberrations in Premature Ovarian Failure: A Pilot Study”. **Mona Sharma**, Ashutosh Halder, Aparna Singh, Alka Kriplani , JB Sharma, PK Chaturvedi, Anand Kumar. NAMSCON 2016; AIIMS, Raipur
2. Apoptosis in trophoblastic cells of normal and preeclamptic placentas in Indian pregnant women.” Journal of Anatomical Society of India, 2009.
3. Preeclampsia, a state of increased syncytial knot formation.” Journal of Anatomical Society of India, June, 2011.

#### **PRESENTATIONS**

##### **I: Invited Talks**

1. **Guest Lecture** on “Non invasive methods of preimplantation and prenatal diagnosis” on 4<sup>th</sup> April 2015 in the Department of Anatomy, VMMC & Safdarjung hospital, New Delhi.
2. **Guest lecture** on “Recent advances in infertility” on November 11, 2018 during 66<sup>th</sup> NATCON-ASI at AIIMS Rishikesh

##### **II: Conference Presentations**

1. Poster presentation titled “Evaluation of parameters to standardize single strand conformation polymorphism for detecting gene mutations in patients of idiopathic premature ovarian failure” Rishi I, Sharma JB, Jain M, **Sharma M. Best poster award** at 29<sup>th</sup> annual meeting of the Indian Society for the study of Reproduction and Fertility, on 22-24<sup>TH</sup> February, 2019; at JNU, Delhi.
2. Poster presentation at NAMSCON 2016 titled “Sex Chromosome Aberrations in Premature Ovarian Failure: A Pilot Study”. **Mona Sharma**, Ashutosh Halder, Aparna Singh , Alka Kriplani , JB Sharma, PK Chaturvedi, Anand Kumar.
3. Oral presentation given on “Apoptosis in trophoblastic cells of normal and preeclamptic placentas in Indian pregnant women.” at 56<sup>th</sup> national conference of Anatomical Society of India in 2008 at Varanasi.
4. Poster presentation done on “Preeclampsia – A state of increased syncytial knot formation” at 58<sup>th</sup> national conference of Anatomical Society of India in. 2010 at Pune
5. Oral Presentation The study of clinical, obstetric and pathological parameters in the early and late onset preeclampsia” Anatomical Society of India Conference at PGI Chandigarh, 2013.

6. Poster Presentation on “The embryological and clinical relevance of unilateral double testicular veins-A case report” Anatomical Society of India Conference at PGI Chandigarh, 2013.

### **AWARDS AND MEMBERSHIP**

**Awards:** Membership of National Academy of Medical Sciences, India (**MAMS**)

**Memberships:**

1. Academy of Clinical Embryologists
2. Indian Fertility Society
3. Endocrine Society of India
4. Indian Society for the Study of Reproduction and Fertility
5. Society for Reproductive Biology and Comparative Endocrinology

### **REVIEWER IN COMMITTEES AT NATIONAL BODIES AND INSTITUTIONS/JOURNALS/BOOKS**

1. **Reviewer** of a book proposal titled “Molecular mechanisms in spermatogenesis and male infertility” submitted to CRC Press.
2. **Reviewer** of a book proposal titled “Thyroid and human reproductive functions” submitted to CRC Press.

### **SERVICE**

#### ***DEPARTMENT***

**Academic Program:** Organizing curriculum for MSc. reproductive biology and clinical embryology course and for research scholars. Upgradation of curriculum by creating learning objective module.

**Andrology laboratory:** Coordination and upgradation by started designing quality manual. of andrology lab and patient care services by providing semen analysis reports.

**Store purchase proceedings:** Member of department store purchase committee.

#### ***INSTITUTE***

**Institute day exhibition:** Represent department posters in Institute day exhibitions.

**Institute cultural committee:** Member of Institute cultural committee.