

**Proforma for information to be provided by the Teaching/ Academic/ Research Staff**

Employee No. **21193**



1. Name: **ANIMA TRIPATHI**
2. Designation: ASSISTANT PROFESSOR
3. Academic Qualifications: M.Sc., Ph.D.

Sr.	Degree	Institution	Year
	B.Sc	Banaras Hindu University, India	2006
	M.Sc.	Banaras Hindu University, India	2008
	Ph.D.	Banaras Hindu University, India	2014

4. Area of Specialization: **Mammalian Reproductive Physiology & Developmental Biology**

5. Contact Information: Assistant Professor  
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**6. Projects Undertaken as PI:**

S.No.	Name of the project	Duration	Source of Funding	Amount of Funding (Rs.)
1.	Evaluation of protective effects of Shatavari on phthalate- induced epigenetic changes in rat offsprings: A search of potential candidate to minimize environmental toxicity	2016-19 (3 years)	SERB	37.5 Lakhs
2.	Evaluation of reversal potential of <i>Bryonia laciniosa</i> seeds (Shivlingi) extract against Bisphenol-A induced epigenetic changes during pre and post natal development in rat model: A focus on female reproductive health	2018-2020	UGC	10 Lakhs

7. **Awards/ Recognitions if any:**

- ✚ **DST-Fast Track Young Scientist Award** by Department of Science & Technology, Govt. of India, New Delhi (2015).
- ✚ **UGC-Women Post Doctoral Fellowship-2015**
- ✚ **Venus International Young Faculty Award-2016 (VIFA-2016)**

**Professional training:**

1. **Hands on Training** on **“Maternal and Newborn care: Issues and Challenges”** from March 1, to March 7, 2017 organized by Institute of Science, BHU, Varanasi.
2. **One week training** on **“Faculty Development Program in Entrepreneurship”** sponsored by Department of Science & Technology, Govt. of India from 22<sup>nd</sup> March-2<sup>nd</sup> April, 2010.

8. **List of 10 major Publications:**

1. **Anima Tripathi**, Sabana Khatun, A.N. Pandey, S. K. Mishra, Radha Chaube, T.G. Shrivastav, and S. K. Chaube (2009). Intracellular levels of hydrogen peroxide and nitric oxide in oocyte at various stages of meiotic cell cycle and apoptosis. **Free Radical Research**, 43, 287-294.
2. S. K. Chaube, **Anima Tripathi**, Sabana Khatun, S. K. Mishra, P.V. Prasad and T.G. Shrivastav (2009). Extracellular calcium protects against verapamil-induced metaphase-II arrest and initiation of apoptosis in aged rat eggs. **Cell Biology International**, Vol. 33, 337-343.
3. **Anima Tripathi**, K.V. Prem Kumar and S. K. Chaube (2010). Meiotic cell cycle arrest in mammalian oocyte. **Journal of Cellular Physiology** 223; 592-600.
4. Ashutosh N. Pandey, **Anima Tripathi**, K.V. Prem Kumar and Shail K. Chaube (2010). Reactive oxygen and nitrogen species during meiotic resumption from diplotene-arrest in mammalian oocytes. **Journal of Cellular Biochemistry** 9999; 1-8.
5. **Anima Tripathi**, Premkumar K.V., Pandey A.N., Khatun S., Mishra S.K., Shrivastav T.G. and Chaube S.K. (2011). Melatonin protect against clomiphene citrate-induced generation of free radicals and egg apoptosis in rat. **European Journal of Pharmacology** 667; 419-424.
6. **Anima Tripathi**, Shrivastav T.G. and Chaube S. K (2012). Aqueous extract of *Azadirachta indica* (Neem) leaf-induces generation of reactive oxygen species and mitochondria-mediated in rat oocytes. **Journal of Assisted Reproduction and Genetics** 29; 15-23.
7. **Anima Tripathi** and Shail K. Chaube (2012). High cytosolic free calcium level signals apoptosis through mitochondria-caspase mediated pathway in rat eggs cultured in vitro. **Apoptosis** 17 (5); 439-448.
8. **Anima Tripathi**, Tulsidas G. Shrivastav, Shail K. Chaube (2013). An increase of granulosa cell apoptosis mediates aqueous neem (*azadirachta indica*) leaf extract-induced oocyte apoptosis in rat. **International Journal of Applied and Basic Medical Research** 3; 27-36.

9. **Anima Tripathi**, Vivek K Pandey, Ravi Bhushan, AN Sahu and Pawan K Dubey (2017). Phthalate and ovarian physiology: A brief review of therapeutic potential of Shatavari (*Asparagus racemosus*). *International Journal of Herbal Medicine* 5(5): 225-227.
10. **Anima Tripathi**, Pawan K. Dubey, Vivek K. Pandey, Garima Tripathi, Sangeeta Hazarika, K. Sairam, A. N. Sahu (2018). Di-(2-ethylhexyl) phthalate (DEHP) and ovarian physiology: A brief review of therapeutic potential of *Asparagus racemosus* on DEHP- induced toxicity. *Journal of Medicinal Plant and Herbal Therapy Research* 6, 9-18.

9. **Full List of Publications:**

1. **Anima Tripathi**, Sabana Khatun, A.N. Pandey, S. K. Mishra, Radha Chaube, T.G. Shrivastav, and S. K. Chaube (2009). Intracellular levels of hydrogen peroxide and nitric oxide in oocyte at various stages of meiotic cell cycle and apoptosis. **Free Radical Research**, 43, 287-294. **Impact factor =2.98**
2. S. K. Chaube, **Anima Tripathi**, Sabana Khatun, S. K. Mishra, P.V. Prasad and T.G. Shrivastav (2009). Extracellular calcium protects against verapamil-induced metaphase-II arrest and initiation of apoptosis in aged rat eggs. **Cell Biology International**, Vol. 33, 337-343. **Impact factor =1.68**
3. **Anima Tripathi**, K.V. Prem Kumar and S. K. Chaube (2010). Meiotic cell cycle arrest in mammalian oocyte. **Journal of Cellular Physiology** 223; 592-600. **Impact factor = 3.8**
4. Ashutosh N. Pandey, **Anima Tripathi**, K.V. Prem Kumar and Shail K. Chaube (2010). Reactive oxygen and nitrogen species during meiotic resumption from diplotene-arrest in mammalian oocytes. **Journal of Cellular Biochemistry** 9999; 1-8. **Impact factor = 3.54**
5. **Anima Tripathi**, Premkumar K.V., Pandey A.N., Khatun S., Mishra S.K., Shrivastav T.G. and Chaube S.K. (2011). Melatonin protect against clomiphene citrate-induced generation of free radicals and egg apoptosis in rat. **European Journal of Pharmacology** 667; 419-424. **Impact factor =2.75**
6. **Anima Tripathi**, Shrivastav T.G. and Chaube S. K (2012). Aqueous extract of *Azadirachta indica* (Neem) leaf-induces generation of reactive oxygen species and mitochondria-mediated in rat oocytes. **Journal of Assisted Reproduction and Genetics** 29; 15-23. **Impact factor = 1.38**
7. **Anima Tripathi** and Shail K. Chaube (2012). High cytosolic free calcium level signals apoptosis through mitochondria-caspase mediated pathway in rat eggs cultured in vitro. **Apoptosis** 17 (5); 439-448. **Impact factor = 3.6**
8. **Anima Tripathi**, Tulsidas G. Shrivastav, Shail K. Chaube (2013). An increase of granulosa cell apoptosis mediates aqueous neem (*azadirachta indica*) leaf extract-induced oocyte apoptosis in rat. **International Journal of Applied and Basic Medical Research** 3; 27-36. **Impact factor = 0.45**
9. Shail K Chaube, Tulsidas G Shrivastav, Meenakshi Tiwari, Shilpa Prasad, **Anima Tripathi** and Ajai K Pandey (2014). Neem (*Azadirachta indica* L.) leaf extract deteriorates oocyte quality by inducing ros-mediated apoptosis in mammals. **SPRINGERPLUS** 3: 464. **Impact factor = 0.56**

10. Shail K. Chaube, Tulsidas G. Shrivastav, Shilpa Prasad, Meenakshi Tiwari, **Anima Tripathi**, Ashutosh N. Pandey, Karuppanan V. Premkumar (2014). Clomiphene Citrate Induces ROS-Mediated Apoptosis in Mammalian Oocytes. **Open Journal of Apoptosis** 3; 52-58. **Impact factor: 0.55**
11. Shilpa Prasad, Meenakshi Tiwari, **Anima Tripathi**, Ashutosh N. Pandey and Shail K Chaube (2015). Changes in signal molecules and maturation promoting factor levels associate with spontaneous resumption of meiosis in rat oocytes. **Cell Biology International** 39; 659-669. **Impact factor: 1.63.**
12. **Anima Tripathi** and Shail K. Chaube (2014). Reduction of phosphorylated Thr-161 Cdk1 level participates in roscovitine-induced Fas ligand-mediated apoptosis in rat eggs cultured in vitro. **In Vitro Cellular & Developmental Biology - Animal** 51; 174-182. **Impact factor: 1.2**
13. Shilpa Prasad, Meenakshi Tiwari, **Anima Tripathi**, Ashutosh N. Pandey and Shail K Chaube (2015). Changes in signal molecules and maturation promoting factor levels associate with spontaneous resumption of meiosis in rat oocyte. **Cell Biology International** 39, 759-769. **Impact factor: 1.63**
14. G Tripathi, **A. Tripathi**, G Ramanathan, SK Chaube (2015). A 12-Crown-4 Ether Containing Dipeptide Boc-12-Crown-4-l-DOPA-Gly-OMe Induces Cell Cycle Arrest and Apoptosis in Rat Eggs Cultured In Vitro. **International Journal of Peptide Research and Therapeutics** 1-10. **Impact factor: 0.905**
15. Tiwari M, Prasad S, **Tripathi A**, Pandey AN, Ali I, Singh AK, Shrivastav TG, Chaube SK (2015). Apoptosis in mammalian oocytes: a review. **Apoptosis** 20; 1019-1025. **Impact factor: 3.68**
16. Meenakshi Tiwari, Shilpa Prasad, **Anima Tripathi**, Ashutosh N. Pandey, Arvind K. Singh, Tulsidas G. Shrivastav, and Shail K. Chaube (2016). Involvement of Reactive Oxygen Species in Meiotic Cell Cycle Regulation and Apoptosis in Mammalian Oocytes. **Reactive Oxygen Species** 1; 110-116. **Impact factor: 0.585**
17. Meenakshi Tiwari, **Anima Tripathi**, Shail K. Chaube (2017). Presence of encircling granulosa cells protects against oxidative stress-induced apoptosis in rat eggs cultured in vitro. **Apoptosis** 22; 98-107. **Impact factor: 3.68**
18. Meenakshi Tiwari, Shilpa Prasad, Ashutosh N. Pandey, Karuppanan V. Premkumar, **Anima Tripathi**, Anumegha Gupta, Doddalingaiah R. Chetan, Pramod K. Yadav, Tulsidas G. Shrivastav, Shail K. Chaube (2017). Nitric oxide signaling during meiotic cell cycle regulation in mammalian oocytes. **Frontiers in Bioscience, Scholar**, 9, 307-318. **Impact factor: 2.78**
19. Shail K Chaube, Meenakshi Tiwari, Anumegha Gupta, Shilpa Prasad, **Anima Tripathi**, Pramod K Yadav, Doddalingaiah R Chetan, Ashutosh N Pandey, Karuppanan V Premkumar, Ajai K Pandey and Tulsidas G Shrivastav (2017). Neem (Azadirachta Indica L.) and Oocyte Quality. **Glob J Reprod Med**. Volume 1 Issue 1 - April 2017.
20. Vivek K Pandey, **Anima Tripathi**, Ravi Bhushan, Akhtar Ali, Pawan K Dubey (2017). Application of CRISPR/Cas9 Genome Editing in Genetic Disorders: A Systematic Review Up to Date. **J Genet Syndr Gene Ther** 8: 321. doi:10.4172/2157-7412.1000321.
21. Ravi Bhushan, Vivek K Pandey, **Anima Tripathi**, Pawan K Dubey (2017). Gestational diabetes mellitus (gdm) and birth defects. **Paripex - Indian Journal of Research**. Volume-6 | issue-11.

22. Vivek K Pandey, **Anima Tripathi**, Pawan K Dubey (2017). CRISPR-cas9 technology and its application in congenital disorders. International Journal of Scientific Research. Volume-6 | issue-12 | December-2017
23. **Anima Tripathi**, Vivek K Pandey, Ravi Bhushan, AN Sahu and Pawan K Dubey (2017). Phthalate and ovarian physiology: A brief review of therapeutic potential of Shatavari (Asparagus racemosus). International Journal of Herbal Medicine 5(5): 225-227
24. **Anima Tripathi**, Pawan K. Dubey, Vivek K. Pandey, Garima Tripathi, Sangeeta Hazarika, K. Sairam, A. N. Sahu (2018). Di-(2-ethylhexyl) phthalate (DEHP) and ovarian physiology: A brief review of therapeutic potential of Asparagus racemosus on DEHP- induced toxicity. Journal of Medicinal Plant and Herbal Therapy Research 6, 9-18.

#### **Book: 1.**

1. Pawan K. Dubey, **Anima Tripathi**, G. Taru Sharma. Nitric oxide and Ovarian Folliculogenesis. Lambert Academic Publishing Group, Germany, ISSN No. 978-3-659-33318-7

#### **Book Chapter: 1.**

1. Pawan K. Dubey, A. Ali and **Anima Tripathi**. Assisted Reproductive Techniques in Infertility Treatment: Opportunities And Challenges. SpringerVerlag, 69121, Heidelberg, Germany, Publication group. **ISSN No. 978-3-319-39328-5**

#### **Conference proceeding: 1**

1. Pawan K. Dubey and **Anima Tripathi**. CRISPR/Cas-9 mediated Gene editing: New opportunities for treatment of Genetic disorders. A Publication of the Indian Society for the Study of Reproduction and Fertility Issue 19 | September, 2016.

### **10. CONFERENCE PROCEEDINGS/ABSTRACTSPUBLISHED IN JOURNALS:**

*Papers presented in National/International Seminars/Conferences: 14*

Anima Tripathi

Date: 21/05/2018

Signature

Place: Varanasi