

Faculty Details proforma for DU Web-site

Title Dr.	First Name	Anju	Last Name	Shrivastava	Photograph
Designation	Professor				
Address (Campus)	Room No. 314, Dept. of Zoology, University of Delhi, Delhi-110007				
(Residence)	21/5 Cavalary Lines, University of Delhi, Delhi-110007				
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Residence	(011)2766652	(011)27666525			
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	ashrivastava@	zoology	.du.ac.in;		

Educational Qualifications

Degree	Institution	Year		
Ph.D. in Biotechnology	BHU, Varanasi	1996		
M.Sc. Zoology	BHU, Varanasi	1991		
B.Sc. Zoology (Hons.)	Ranchi University	1989		

Career Profile

Organization / Institution	Designation	Duration	Role
Department of Zoology, University of Delhi, Delhi-110007	Professor	Since 11/2012 Till date	Teaching & Research in Immunology, Genetics & Cytogenetics, Epigenetics and Chromatin Biology, Developmental Biology, Molecular Biology of Parasitism & Immunology * Immunology (Department of Botany, Delhi University)
Department of Zoology, University of Delhi, Delhi-110007	Reader/Associ ate Professor	11/2006 – 11/2012	<u>Teaching & Research</u> in Immunology, Genetics, Epigenetics, Physiology,
Department of Zoology, University of Delhi, Delhi-110007	Lecturer	06/2003 – 11/2006	Teaching & Research in Immunology, Cell biology, Animal physiology
Baylor College of Medicine, Houston, Texas, USA	Postdoctoral Associate	5/1999 - 5/2001	Research in Cell Signaling (Immunomodulation)

MD Anderson Cancer	Postdoctoral	6/1997 -	Research in Cancer Biology and
Centre, Houston, Texas,	Fellow	5/1999	particular TNFα-mediated NF-κΒ
USA			signaling
St. Columba's College, Hazaribagh, India	Lecturer	11/1996 – 06/2003 (In between 4 years sabbatical for postdoctoral research)	<u>Teaching</u> -Immunology, Genetics & Cell Biology

Administrative Assignments

DEPARTMENT OF ZOOLOGY

- Coordinator, IQAC, Department of Zoology, University of Delhi (Currently).
- Coordinator, NAAC Committee, Department of Zoology, University of Delhi (Currently).
- Staff Secretary, Department of Zoology since Nov. 2011-Nov. 2016.
- Convener/ member of Departmental committees: (at different times)
 - Academic Committee (currently),
 - Contingency and Stationary Committee
 - Seminar, Travel & Excursion Committee,
 - Repair Committee,
 - o CIF committee

DELHI UNIVERSITY

- VC Nominee, DRC Department of Computer Science, Delhi University (2018-2020)
- VC Nominee, DRC, ACBR, University of Delhi (2017-2018)
- **VC Nominee**, DRC, CIC, University of Delhi (2016-2017)
- Member of Managing Committee, Chacha Nehru Balchikitsyalaya, University of Delhi. (2018-2019)
- Member of Managing Committee, ARSD College, University of Delhi (2017-2018)
- Member of Managing Committee, Ram Lal Anand College, University of Delhi (2016-2017)
- Member BRS,_Faculty of Science, University of Delhi (2014-2016)
- Member Special Categories Admission Enabling Committee_for academic session 2013-2014
- Member of Managing Committee EOC, University of Delhi, Delhi from October 2011 till 2014.
- Resident Tutor, University Hostel for Women, University of Delhi, Delhi since May 2004 till 10-08-2010.

OTHER

- Executive member, Indian Society of Cell Biology (Currently)
- Joint Secretary, Indian Society of Cell Biology (April,2016- March,2019)
- Treasurer-DUWA from January 2015 to 2018.
- Joint Treasurer Delhi University Women's Association (DUWA) since January 2013 till 2015.
- EC Member Delhi University Women's Association since January 2013 till 2018.

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24 Years of Teaching experience in Immunology, Genetics, Cell Biology, Developmental Biology and Physiology

Department of Zoology, University of Delhi, Delhi	PG & M.Phil./Ph.D. -course work	June 2003 till date <u>Subjects</u> : Immunology, Genetics and Cyto-genetics, Epigenetics, Developmental Biology and Comparative Animal Physiology and Molecular Biology of Parasitism & Immunology
Department of Botany, University of Delhi, Delhi	PG	July, 2011 till date (Only III semester) Subjects: BOT- 308- Immunology
M.Tech Nanoscience and Nanotechnology University of Delhi	PG	January, 2010- July 2013 Subjects: Biology Practicals
Department of Zoology, St. Columba's College, Hazaribagh, (Vinoba Bhave University)	PG	Nov. 1996 to June 2003 Subjects: Cell Biology, Genetics & Immunology
Department of Biotechnology, Ranchi University and Vinoba Bhave University (Various colleges as Guest Lecturer)	UG	June 2001 to June 2003 Subjects: Immunology, Animal Cell Culture, Recombinant DNA Tech.
Department of Biotechnology, BHU, Varanasi (Assisted in Practical classes in Immunology, as a Research Scholar)	PG	Sept. 1992 to Nov. 1996 Subjects: Animal Cell Culture, Immunology

Time table of the subjects taught during the current semester

S.No.	Subject	Days	Time	Classroom
1	Immunology	3 (Theory)/ week	9:30-10:30 AM	RM-19/Online
2.	Immunology	3 (Practicals)/ week	1:00-4:00PM	Physiology Lab
3.	Epigenetics and Chromatin Biology	1 (Theory)/ week	10:30-11:30AM	NLT
4.	Epigenetics and Chromatin Biology	1 (Practicals)/ week	1:00-4:00PM	Cell Biology Lab
5.	Ph.D./M.Phil Coursework	3X2 Class/ Semester	2:30- 4:30PM	NLT

Areas of Interest / Specialization

Basic Research: Tumor Immunomodulation

- Regulation of signaling mechanism in macrophages, neutrophils and tumor cells.
- c-Jun N-terminal Kinase (JNK),
- NF-κB signaling,
- Regulation of apoptosis in tumor cells

Applied Research: Phyto-chemical mediated changes in epigenetic regulation of various parameters in cancer progression and immunomodulation.

Research Guidance (Since 2003)

<u>Supervision of Doctoral Thesis:</u>

- A. Ph.D. awarded 09 + 02 (as a Co-Supervisor)
- B. Under progress- 05

Supervision of M.Phil. dissertations:

A. Awarded – 18

M.Sc. Zoology (IV- Semester) Students dissertation- on average 4-5/year since 2011

<u>Postgraduate and undergraduate Trainees-</u> from other universities such as BHU, JNCSR, Calcutta University, Amity University, Bundelkhand University, Banasthali, & under graduate students from various colleges of University of Delhi. (*on average 4 students every year since 2004*)

Recent Publications (in the Last five years)

In Indexed/Peer Reviewed Journals

Year of Publication	Title	Journal	Co- Authors
2020	An interplay between immune responses and neurodegenerative diseases progression: An assessment using Drosophila as a model.	Journal of Neuroimmunology	Jyoti and Agrawal N.
2020	Developing polyphenolic acetates as radiation countermeasure agents: current status and future perspectives.	Drug Discovery Today	Venkateswaran, K., Prasad, A. K., Parmar, V. S., & Dwarakanath, B. S.
2020	Can Autophagy Stop the Clock: Unravelling the Mystery in Dictyostelium discoideum.	In Models, Molecules and Mechanisms in Biogerontology	Sharma, P., Jain, P. & Saran, S.

2020	Promoter Hypermethylation of LATS2 Gene in Oral Squamous Cell Carcinoma (OSCC) Among North Indian Population.	Asian Pacific Journal of Cancer Prevention	Goel, H., Singhal, S., Mathur, R., Syeda, S., Gupta, R. K., Kumar & Jha, A. K.
2019	Mitigation of radiation-induced gastro- intestinal injury by the polyphenolic acetate 7, 8-diacetoxy-4-methylthiocoumarin in mice.	Scientific Reports	Venkateswaran, K., Agrawala, P. K., Prasad, A. K., Devi, S. C., Manda, K., & Dwarakanath, B. S.
2019	Demethylation of RASSF1A Gene by Quercetin and Eugenol in HeLa Cancer Cell Line.	International Journal of Health Sciences and Research	Saloni, Sharma, A., Goel, H., Pal, S., Rai, P., Rawat, K., Syeda, S. & Jha, A. K.
2018	Deletion of Dictyostelium discoideum Sir2A impairs cell proliferation and inhibits	Journal of Biosciences	R. Lohia, P. Jain, M. Jain, H. Mishra, P. Burma and Shweta Saran
2018	Emerging roles of calreticulin in cancer: implications for therapy	Current Protein & Peptide Science	Kavya Venkateswaran, Paban K. Agrawala, Virinder S. Parmar, B.S. Dwarakanath
2017	Targeting Tumor Associated Macrophages (TAMs) for Cancer Treatment: Exploiting Melatonin As Biological Response Modifier (BRM).	International Journal of Scientific Research	Kumari, A., Syeda S., Kumari R., Rawat K., Shukla A.S.
2017	Role of Catechins in Chemosensitization.	In Role of Nutraceuticals in Cancer Chemo- sensitization	Shukla A.S., Jha A. K., Kumari R., Rawat K., Syeda S.
2017	Chiral analysis of ascorbic acid in bovine serumusing ultrathin molecularimprinted polyanaline/graphite electrode.	J. of Electroanalical Chemistry	Komal Saksena and Rama Kant
2017	Promoter hypermethylation of FHIT and P14 genes in OSCC patients among north Indian population.	Cancer Therapy and Oncology Int. J.,	Meenakshi Jha, Sandesh Kumar Patel, & Abhimanyu Kumar Jha
2017	Amelioration of Dalton's lymphoma-induced angiogenesis by melatonin.	Tumor Biology	Kumari R, Rawat K, & Kumari A

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2017	The immunosuppressive effects of a novel recombinant LipQ (Rv2485c) protein of Mycobacterium tuberculosis on human macrophage cell lines.	Microb Pathog.,	Kumar A, Manisha, Sangha GK, Kaur J.
2017	Dictyostelium discoideum Sir2D modulates cell-type specific gene expression and is involved in autophagy.	Int. J. Dev. Biol.,	Lohia R, Jain P, Jain M, Burma PK, Saran S.
2017	Identifying epigenetic endpoints of pesticide exposure can curtail risk to develop cancer: A review.	International journal of Advanced Research	Rituparna Das, Kulbhushan Thakur, Akshita Puri, and Mousumi Mutsuddi
2016	Promoter hypermethylation of Tumor suppressor genes in lung cancer.	Research J. of Pharm., Biol. and Chem. Sci.	Meenakshi Jha, Sandesh Kumar Patel, Shantanu Gupta, Abhimanyu Kumar Jha
2016	Mitigation of radiation-induced hematopoietic injury by polyphenolicaetate 7,8-diacetoxy-4-methylthiocoumarin in mice.	Scientific Reports.	Kavya Venkateswaran, Paban K. Agrawala, and Blikere S. Dwarakanath
2016	Natural Compounds: DNA Methyltransferase Inhibitors in Oral Squamous Cell Carcinoma.	Appl Biochem Biotechnol.	Jha M, Aggarwal R, & Jha AK
2016	Dictiyostelium discoideum: A model System to Study Autophagy Mediated Life Extension	In Topics in Biomedical Gerontology	Jain. P., Shara. P., & Saran.S.

Conference Presentations (in the last five years)

- 1. **Anju Shrivastava** (2020) Invited lecture in Webinar 'Coping with COVID-19: Psychological and Immunological Aspects' Webinar Organized by Shyam Lal Anand College, University of Delhi on 29-5-2020.
- 2. **Anju Shrivastava** (2020) *"Tinospora cordifolia:* Amrita that ameliorates lymphoma-induced pathogenicity in murine model" at International Conference of Biotechnology and Applied Microbiology (ICBAM) in the Institute of Applied Medicines and Research, Ghaziabad, from 7th-8th February,2020.
- 3. <u>Anand Swaroop Shukla</u> and **Anju Shrivastava** (2020) "Interactive potential of *Tinospora cordifolia* derived immunomodulators on altered homeostasis of hydrogen sulfide and its synthase in cancer" at International Conference of Biotechnology and Applied Microbiology (ICBAM) in the Institute of

Applied Medicines and Research, Ghaziabad, from 7th-8th February,2020.

- 4. <u>Rani Kumari</u> and **Anju Shrivastava** (2020) "Melatonin modulates angiogenic gene expression and their epigenetic alterations in cancer: a study in murine model" at International Conference of Biotechnology and Applied Microbiology (ICBAM) in the Institute of Applied Medicines and Research, Ghaziabad, from 7th-8th February, 2020.
- 5. <u>Kavita Rawat</u>, Rani Kumari and **Anju Shrivastava** (2020) "Potential involvement of neutrophil-derived factors in mediating systemic effect during tumorigenesis" at International Conference of Biotechnology and Applied Microbiology (ICBAM) in the Institute of Applied Medicines and Research, Ghaziabad, from 7th-8th February, 2020 (**Best Oral Presentation Award**)
- Saima Syeda and Anju Shrivastava (2020) "Tumor-derived exosomes: A nano weapon of tumor for modulating immune response" at International Conference of Biotechnology and Applied Microbiology (ICBAM) in the Institute of Applied Medicines and Research, Ghaziabad, from 7th-8th February,2020.
- 7. <u>Shrivastava NK.</u>, Chauhan N., **Shrivastava A.** and Shakarad M. 2020. Immunity robustness is unaltered by energy levels in *Drosophila melanogaster*. 5th Asia Pacific *Drosophila* Research Conference, Pune, India, 6-10 January 2020.
- 8. **Anju Shrivastava** (2019) *Tinospora cordifolia*: Amrita that restores the tumor macro-environment (impact of *Tinospora cordifolia* on some of the parameters of growing lymphoma) at Fourth International Conference on Nutraceuticals and Chronic Diseases (INCD) in IIT Guwahati, Assam, from 23rd -25th September, 2019.
- Anand Swaroop Shukla and Anju Shrivastava (2019) "Bioactive compounds from *Tinospora cordifolia* inhibits hydrogen sulfide synthesizing enzyme cystathionine-y-lyase: An in silico study" at Fourth International Conference on Nutraceuticals and Chronic Diseases (INCD) in IIT Guwahati, Assam, from 23rd -25th September, 2019.
- 10. <u>Saima Syeda</u>, AnupmaKumari and **Anju Shrivastava**(2019) "Nutraceuticals for targeting exosomes: A link between tumor and immune response" at Fourth International Conference on Nutraceuticals and Chronic Diseases (INCD) in IIT Guwahati, Assam, from 23rd -25th September, 2019.
- 11. <u>Jyoti</u>, Namita Agrawal, **Anju Shrivastava** "Curcumin: A potant nutraceutical to combat altered immune response and suppression of neurodegenerarion in transgenic *Drosophila* HD model" at 4th International conference of Nutraceuticals and Chronic Diseases (INCD-2019), IIT Guwahati from 22nd to 25th September, 2019. (**Best poster award**)
- 12. **Anju Shrivastava** (2019) "Inflammation, Lifestyle and Chronic Disease: a Silent Link" in International Conference on "Changing Environment: Understanding the Emerging Challenges and their Management Strategies" hosted by Kalindi College, University of Delhi, New Delhi, India, from 10th to 12th April, 2019
- 13. <u>Apoorva Joshi</u>, <u>Jyoti</u>, Namita Agrawal, and **Anju Shrivastava** (2018) "Alteration of Immune Response in Transgenic *Drosophila* Model of Huntington's Disease" at INSCR international

- conference on "Trends in Biotechnology for Innovations in Health & Environment" School of biotechnology, Kalinga Institute of Industrial Technology-KIIT from 26th to 27th September, 2018.
- 14. **Anju Shrivastava** (2018) Resource person in a two-day seminar/workshop on "Immunology at a Glance" scheduled on 01.03.2018 to 03.03.2018 at the department of Zoology under MHRD's scheme of teaching and learning center of S. P. Pune University, Pune.
- 15. **Anju Shrivastava** (2018) "Crosstalk between cancer and immune system: a link with great potential" at National Conference on "Diseases and Drugs: Emerging Trends and Challenges" Department of Zoology, Zakir Husain Delhi College (University of Delhi) J.L.N. Marg, New Delhi from 31st January to 1st February, 2018.
- 16. <u>Rani Kumari</u>, Kavita Rawat and **Anju Shrivastava** (2018) "Melatonin attenuates parameters involved in cancer progression including angiogenesis: a study in murine model" at National Conference on "Diseases and Drugs: Emerging Trends and Challenges" Department of Zoology, Zakir Husain Delhi College (University of Delhi) J.L.N. Marg, New Delhi from 31st January to 1st February, 2018.
- 17. <u>Kavita Rawat</u>, Rani Kumari and **Anju Shrivastava** (2018) "Taming cancer with *Tinospora*-mediated immunomodulation: potential role of neutrophils" at National Conference on "Diseases and Drugs: Emerging Trends and Challenges" Department of Zoology, Zakir Husain Delhi College (University of Delhi) J.L.N. Marg, New Delhi from 31st January to 1st February,2018.
- 18. **Anju Shrivastava** (2017) "Nanoparticle and cancer therapy: Enzyme caged in hollow gold nanoparticles has potential application in enzyme-prodrug therapy" National Symposium on Frontiers in Biotechnology held on 21st March, 2017 Department of Biotechnology, Panjab University, Chandigarh.
- 19. **Anju Shrivastava** (2017) 'Re-establish antitumor immunity by resetting the cross-talk between cancerous and immune cells: a potential therapeutic strategy' at Symposium on Gene-Environment interaction in Disease, Development and Evolution held in Department of Zoology, BHU Varanasi from 5th 6th March, 2017.
- 20. <u>Rani Kumari</u>, Kavita Rawat and **Anju Shrivastava** (2017)" Melatonin ameliorates tumor-induced angiogenesis" at International workshop and Symposium on Biological Timing and Health Issues in the 21st Century at Department of Zoology, DU from 21-02-2017 to 24-02-2017.
- 21. Zoha Ahmed, Anupma Kumari, <u>Saima Syeda</u>, Anand Swaroop Shukla and **Anju Shrivastava** (2017) "Melatonin: A Potent Immuno-modulator Of Tumor Associated Macrophages" at International workshop and Symposium on Biological Timing and Health Issues in the 21st Century at Department of Zoology, DU from 21-02-2017 to 24-02-2017.
- 22. **Anju Shrivastava** (2016) "Phytochemicals re-establish antitumor immunity by resetting the cross-talk between cancerous and immune cells" at INCD-2016 Cochin, Kerala from 9-9-2016 to 11-9-2016.
- 23. <u>Kavita Rawat</u>, Rani Kumari and **Anju Shrivastava** (2016)" Effect of *Tinospora cordifolia* on Neutrophills Infiltration in Major Organs of Tumor Bearing Mice: an Immunomodulatory and Anti-Tumor Role" at INCD-2016 Cochin, Kerala from 9-9-2016 to 11-9-2016.
- 24. <u>Rani Kumari</u>, Kavita Rawat, and **Anju Shrivastava** (2016)" Effect of *Tinospora cardifolia* on Dalton's lymphoma –induced Angiogenesis: an in vivo study" at INCD-2016 Cochin, Kerala from 9-9-2016 to 11-9-2016. (*Adjudged best poster presentation*)

- 25. **Anju Shrivastava** (2016) "Phytochemicals and cancer prevention: Involvement of NF-κB Signalling, Epigenetics, and Cell Death Mechanisms" at Department of Biotechnology, Panjab University, Chandigarh
- 26. <u>Kavita Rawat</u>, Rani Kumari, and **Anju Shrivastava** (2016) "Effect of *Tinospora cardifolia* on progression of Dalton's lymphomain Balb/c mice: a biochemical, hematological and histological study" at National Conference on "Biotechnological Perspectives in Healthcare" held on 16.07.16.
- 27. <u>Rani Kumari</u>, Kavita Rawat, and **Anju Shrivastava** (2016) Effect of *Tinospora cardifolia* on DL-nduced angiogenesis in mouse mesentry: A good in vivo model to study tumor-induced angiogenesis at National Conference on "Biotechnological Perspectives in Healthcare" held on 16.07.16. (*Adjudged best poster presentation*)
- 28. <u>Anand Swaroop Shukla</u>, Zoha Ahmed and **Anju Shrivastava** (2016) High Hydrogen sulphide levels in Dalton's lymphoma: Role of tumor-associated macrophages at National Conference on "Biotechnological Perspectives in Healthcare" held on 16.07.16.
- 29. **Anju Shrivastava** (2016) Resetting immune system to beat disorders at CPDHE, Jawaharlal Nehru University, Delhi on 10-10-2016.

Publications Profile

In Indexed/ Peer Reviewed Journals

Full length research papers: (58)

- 1. Jyoti, Agrawal, N., & **Shrivastava**, **A.** (2020). An interplay between immune responses and neurodegenerative diseases progression: An assessment using Drosophila as a model. *Journal of Neuroimmunology*, 577302.
- 2. Venkateswaran, K., **Shrivastava**, **A.**, Prasad, A. K., Parmar, V. S., & Dwarakanath, B. S. (2020). Developing polyphenolic acetates as radiation countermeasure agents: current status and future perspectives. **Drug Discovery Today**, 25(4), 781-786.
- 3. Sharma, P., Jain, P., **Shrivastava**, A., & Saran, S. (2020). Can Autophagy Stop the Clock: Unravelling the Mystery in Dictyostelium discoideum. In *Models*, *Molecules and Mechanisms in Biogerontology* (pp. 235-258). Springer, Singapore.
- 4. Goel, H., Singhal, S., Mathur, R., Syeda, S., Gupta, R. K., Kumar, **Shrivastava A.**, & Jha, A. K. (2020). Promoter Hypermethylation of LATS2 Gene in Oral Squamous Cell Carcinoma (OSCC) Among North Indian Population. *Asian Pacific Journal of Cancer Prevention*, *21*(5), 1283-1287.
- 5. Venkateswaran, K., **Shrivastava, A.**, Agrawala, P. K., Prasad, A. K., Devi, S. C., Manda, K., ... & Dwarakanath, B. S. (2019). Mitigation of radiation-induced gastro-intestinal injury by the polyphenolic acetate 7, 8-diacetoxy-4-methylthiocoumarin in mice. *Scientific Reports*, *9*(1), 1-17.
- 6. Saloni, Sharma, A., Goel, H., Pal, S., Rai, P., Rawat, K., Syeda, S., **Shrivastava, A**,& Jha, A. K. (2019). Demethylation of RASSF1A Gene by Quercetin and Eugenol in HeLa Cancer Cell Line. *International Journal of Health Sciences and Research*, *9*(8), 29-34.
- 7. Thakur, D., Verma, P., Deepa, Kumar, M., Goel, H., Syeda, S., Kamthania, M., **Shrivastava, A**., Jha, A. K. (2019). Reversal of Promoter Hypermethylation of RASSF1A Gene Caused by *Aloe Barbadensis*

- Miller and MurrayaKoenigii in Cervical Cancer. Research Journal of Pharmaceutical, Biological and Chemical Sciences, 10(4), 211-216.
- 8. Lohia, R., Jain, P., Jain, M., Mishra, H., Burma, P., **Shrivastava, A**. and Shweta Saran (2018) Deletion of Dictyostelium discoideum Sir2A impairs cell proliferation and inhibits autophagy. *Journal of Biosciences* 43(2):351-364.
- 9. Venkateswaran, K., Verma, A., Bhatt, A. N., **Shrivastava, A**., Manda, K., Raj, H. G., and Dwarakanath, B. S. (2018). Emerging Roles of Calreticulin in Cancer: Implications for Therapy. *Current Protein and Peptide Science*, *19*(4), 344-357.
- Kumari, A., Syeda, S., Kumari, R., Rawat K., Shukla, A.S. and Shrivastava, A. (2017) Targeting Tumor Associated Macrophages (TAMs) for Cancer Treatment: Exploiting Melatonin As Biological Response Modifier (BRM). *International Journal of Scientific Research*, 6(7) 358-363. ISSN No 2277 – 8179.
- 11. Shukla A.S., Jha A. K., Kumari R., Rawat K., Syeda S. and **Shrivastava A.** (2017). Role of Catechins in Chemosensitization. Book chapter in '*Role of Nutraceuticals in Cancer Chemosensitization*' Editors: Bharti AC and Aggarwal BB. Elsevier, USA, PP 169-198.
- 12. Meenakshi Jha, Sandesh Kumar Patel, Abhimanyu Kumar Jha and **Anju Shrivastava** (2017) Promoter hypermethylation of FHIT and P14 genes in OSCC patients among north Indian population. *Cancer Therapy and Oncology International Journal*, 5 (2) doi: 10.19080/CTOIJ.2017.05.555660.
- 13. Kumari R, Rawat K, Kumari A, **Shrivastava A**. (2017) Amelioration of Dalton's lymphoma–induced angiogenesis by melatonin. **Tumor Biology**, 39(6):1010428317705758. doi: 10.1177/1010428317705758.
- 14. Komal Saksena, **Anju Shrivastava** and Rama Kant (2017) Chiral analysis of ascorbic acid in bovine serumusing ultrathin molecularimprinted polyanaline/graphite electrode. *J. of Electroanalytical Chemistry.* 795:1-140 DOI:10.1016/j.jelechem.2017.04.043
- 15. Kumar A, Manisha, Sangha GK, **Shrivastava A**, Kaur J. (2017) The immunosuppressive effects of a novel recombinant LipQ (Rv2485c) protein of Mycobacterium tuberculosis on human macrophage cell lines. *Microb Pathog.*, 107:361-367. doi: 10.1016/j.micpath.2017.04.015.
- 16. Lohia R, Jain P, Jain M, Burma PK, **Shrivastava A**, Saran S. (2017) Dictyosteliumdiscoideum Sir2D modulates cell-type specific gene expression and is involved in autophagy. *Int J Dev Biol.*, 61(1-2):95-104. doi: 10.1387/ijdb.160038ss.
- 17. Rituparna Das, Kulbhushan Thakur, **Anju Shrivastava**, Akshita Puri, and Mousumi Mutsuddi. (2017) Identifying epigenetic endpoints of pesticide exposure can curtail risk to develop cancer: A review. *International journal of Advanced Research*, 5(1), 1093-1097. doi: 10.2147/IJAR01/2857.
- 18. Kavya Venkateswaran, **Anju Shrivastava**, Paban K. Agrawala, Ashok K. Prasad, Namita Kalra, Parvat R Pandey, Kailash Manda, Hanumantharao G. Raj, Virinder S. Parmar, and Blikere S. Dwarakanath. (2016) Mitigation of radiation-induced hematopoietic injury by polyphenolicaetate 7,8-diacetoxy-4-methylthiocoumarin in mice. *Scientific Reports*, doi: 10.1038/srep37305.

- 19. Meenakshi Jha, Sandesh Kumar Patel, Shantanu Gupta, Abhimanyu Kumar Jha and **Anju Shrivastava** (2016) Promoter hypermethylation of Tumor suppressor genes in lung cancer. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 7(5) 2016.
- 20. Jain. P., Shara. P., **Shrivastava. A.**, Saran. S. (2016). *Dictiyostelium discoideum*: A model System to Study Autophagy Mediated Life Extension. *Topics in Biomedical Gerontology* edited by Rath. P.C., Sharma. R, Prasad. S. 35-55.
- 21. Jha M, Aggarwal R, Jha A K, **Shrivastava A**. (2015) Natural Compounds: DNA Methyltransferase Inhibitors in Oral Squamous Cell Carcinoma. **Appl Biochem Biotechnol**., 177(3):577-94. doi: 10.1007/s12010-015-1768-y.
- 22. Ruchi Aggarwal, Meenakshi Jha, **Anju Shrivastava**, and Abhimanyu Kumar Jha (2015) Natural Compounds: Role in Reversal of Epigenetic Changes. *Biochemistry (Moscow)*, 80(8):972-89. doi: 10.1134/S000629791508002?.
- 23. Rahul Dev Verma, Manish Katiyar, Urvashi Verma, Gitanjali Sharma, **Anju Shrivastava**, Abhimanyu Kumar Jha (2014) Demethylation of Promoter Region of FHIT Gene in A549 Cell Line by Sweet Potato Leaf Extract. **International Journal of Applied Biotechnology and Biochemistry**. Vol.4:2 pp. 125-131.
- 24. Gosain A, **Srivastava**, **A.** and Saran S. (2014) Peptide: N- glycanase is expressed in prestalk cells and plays a role in the differentiation of prespore cells during development of Dictyostelium discoideum. **Indian J Exp Biol**. 2014 Mar;52 (3):197-206.
- 25. Kavya Venkateswaran, Amit Verma, Anant N. Bhatt, Paban K. Agrawala, Hanumantharao G. Raj, Shashwat Malhotra, Ashok K. Prasad, Olivier De Wever, Marc E. Bracke, Luciano Saso, Virinder S. Parmar, Anju Shrivastava and B.S. Dwarakanath (2014) Modifications of Cell Signalling and Redox Balance by Targeting Protein Acetylation Using Natural and Engineered Molecules: Implications in Cancer Therapy. Current Topics in Medicinal Chemistry, Vol: 14: 22 Pages 2495-2507 (13) DOI: 10.2174/15680266 14666 1412031 22005.
- 26. Banergee C., Singh A., Gosh T.A., Raman R., **Shrivastava A.** and Majumder S. (2014) Ameliorating ER-stress attenuates *Aeromonas hydrophila*-induced mitochondrial dysfunctioning and caspase mediated HKM apoptosis in *Clarias batrachus Scientific Reports*, *4*: 5820.
- 27. Bhakta G., Nurcombe V., Maitra A. and Shrivastava A., (2014)DNA-encapsulated magnesium phosphate nanoparticle elicit both humoral and cellular responses in mice. Results in Immunology 4: 46–53.
- 28. Nikesh Gupta, **Anju Shrivastava** and Rakesh Sharma (2012) Silica Nanoparticles Co-Encapsulating Gadolinium Oxide and Horse Radish Peroxidase for Imaging and Therapeutic Applications. *International J. of Nanomedicine*, Volume 2012:7 Pages 5491 5500 DOI: http://dx.doi.org/10.2147/IJN.S33295
- 29. Anuradha Gosain, Rakhee Lohia, **Anju Shrivastava** and Shweta Saran (2012) Identification and characterization of peptide: N glycanase from Dictyostelium discoideum. *BMC Biochemistry*,13:9. doi: 10.1186/1471-2091-13-9

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Research Projects (Minor, Major Grants/Research Collaboration)

1. Minor:

R&D Research Grant, University of Delhi, since 2007 every year

- I. 2007: Ref. no. Dean(R)/ R&D/2007/Ph-II/TR no. 134 (2.5 Lakh)
- II. 2008: Ref. no. Dean(R)/R&D/2008/TR no. 180 (2.5 Lakh)
- III. 2009: Ref. no. Dean(R)/ R&D/2009/ TR no. 487 (2.5 Lakh)
- IV. 2010: Ref. no. Dean(R)/R&D/2010/TR no. 489 (2.5 Lakh)
- V. 2011: Ref. no. Dean(R)/ R&D/2011/TR no. 423 (2.5 Lakh)
- VI. 2012: Ref. no. Dean(R)/ R&D/2012/TR no. 917 (2.5 Lakh)
- VII. 2013: Ref. no. Dean(R)/ R&D/2013/TR no. 4155 (2.8 Lakh)
- VIII. 2014: Ref. no. Dean(R)/ R&D/2014/ (3.0 Lakh)
- IX. 2015: Ref. no. RC/2015/ 9677/D-1813(3.0 Lakh)

2. Major Research Projects:

- Synthesis, Physico-chemical characterization and biological applications of enzyme loaded hollow gold nanoparticles. DST, India (Ref. No. SR/SI/PC-23/ 2009) for three years starting from June 2010.(45 lakh)
- Cloning expression and Characterization of the selected Lipase genes (Lip D & Lip Q) of Mycobacterium tuberculosis H37 Rv and its possible role in virulence" (Ref. No. BT/PR-11349/MED/30/136/2008) for three years from February 2010.(16.70 lakh)
- iii. Evaluation of Potential Applications of Inorganic Nanoparticles in Nanomedicine {Ref. No. DU/DST-PURSE GRANT (DeanR/2009/868; dated December 11, 2009)} for three years from January 2010.(49.5 lakh)
- iv. Regulation of c-Jun N-terminal Kinase Signaling in Breast Cancer progression, **DST, India** (Ref. No. SR/SO/BB-46/ 2004).(24 lakh)
- v. Identification and Characterization of c-Jun N-terminal Kinase (JNK)-interacting Proteins in Breast Cancer, **UGC**, **India**. (Ref. No. F31-247/2005(SR). (11 lakh)

Awards and Distinctions			
Awards and Distinctions			
Postdoctoral Associate	Baylor College of	5/1999 -	Research in Cell Signaling
ship	Medicine, Houston,	5/2001	(Immunomodulation)
	Texas, USA		
Postdoctoral Fellowship	MD Anderson	6/1997 -	Research in Cancer Biology and
	Cancer Centre,	5/1999	particular TNFα-mediated NF-κΒ
	Houston, Texas, USA		signaling

Association With Professional Bodies

- Life Member, Indian Immunology Society
- Life Member, Indian society of Cell Biology
- Life Member, Indian National Science Congress

Other Activities

- Organized "Women Health and Cancer Awareness Camp" with AOGIN-India and Miranda House at Delhi University Women Association, University of Delhi. Delhi April 7, 2017.
- Organized IIIrd Training Workshop in Drosophila Genetics for College Teachers on 'Teaching Genetic with *Drosophila*' at Department of Zoology, University of Delhi, Delhi from 2013.
- Organized National Workshop on 'Techniques in Endocrinology' at Department of Zoology, University of Delhi, Delhi from December 20- 28, 2012.
- Organized IInd Training Workshop in Drosophila Genetics for College Teachers on 'Teaching Genetic with *Drosophila*' at Department of Zoology, University of Delhi, Delhi from January 28-29, 2012.
- Organized Basic Training Workshop for College Teachers on 'Drosophila Genetics' at Department of Zoology, University of Delhi, Delhi from November 13- 14, 2010.
- Organized 30th All India Cell Biology Conference and Symposium on Molecules to Compartments: Cross-Talks and Networks, at Department of Zoology, University of Delhi, Delhi from February 2-4, 2007

Date: 15 July, 2020

Signature of Faculty Member

Maiseslava

 You are also requested to also give your complete resume as a DOC or PDF file to be attached as a link on your faculty page.