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Associate Professor & Head, Department of Biochemistry
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Research interest:

I am interested to combine biotechnology, free radical biochemistry and molecular biology approaches to address problems of biomedical significance and diagnostics.

- Cell Aging
- Neuroscience, Neuropsychiatric and neurodegenerative disorders
- Telomere
- Oxidative stress

Details of employments / experience: Total ~11 Years

Teaching & Research: (~ 8 years)

Sr. No.	Organization	Position held	Month of joining	Month of leaving
1	Department of Biochemistry Central University of Haryana, Haryana, India	Associate Professor & Head	14/08/2018	Till date
2	Amity University, Noida, Uttar Pradesh, India	Assistant Professor	October, 2016	13/08/2018
3	Amity University, Noida, Uttar Pradesh, India	Assistant Professor	May, 2012	September, 2014
4	Amity University, Noida, Uttar Pradesh, India	Senior Lecturer	March, 2012	April, 2012
5	Amity University, Noida, Uttar Pradesh,	Senior Lecturer	March, 2010	April, 2011

	India			
6	Amity University, Noida, Uttar Pradesh, India	Lecturer	September, 2008	February, 2010
7	SBS Post-graduate Institute of Biomedical Science & Research, Dehradun, India	Lecturer (Adhoc)	December, 2007	September, 2008

Research (Total~ 3 years)

Sr. No.	Organization	Position held	Date of joining	Date of leaving
1	Taipei Medical University, Taipei, Taiwan	Post-doctoral Research Fellow	10/05/2011	03/03/2012
2	Universidade Federal de Sao Paulo-UNIFESP, Sao Paulo, Brazil	Post-doctoral Research Fellow (Science without Borders-Level A)	01/10/2014	30/09/2016

July 2006- Dec 2007 : **Visiting faculty**, Center of Food Technology, Allahabad University, India.

Courses taught:

- M.Sc. Biochemistry : (Principles of Biochemistry, Tools & Techniques)
- M. Tech Biotechnology : (Topics: Biochemistry and Metabolic Regulation)
- M.Sc. Biotechnology : (Topics: Advanced Biochemistry, Clinical and Nutritional Biochemistry)
- B.Tech Biotechnology : (Topics: Biochemistry, Genetic Engineering)

Research supervision:

PhD: 02 (Awarded)

Masters (M.Tech. & M.Sc.): 18

EDUCATION

Name of the Course	Board/University	Year Passed	Division	% Marks	Subjects Studies
High School	C.B.S.E.	1995	1 st	71%	Hindi, English, Maths, Science, Social Science
Inter Mediate	C.B.S.E.	1997	1 st	72%	Hindi, Physics, Chemistry, Biology, English
B. Sc (Under-graduate)	University of Allahabad, India (Central University)	2001	1 st	71%.	Zoology, Botany, Chemistry
M.Sc (Post-graduate)	University of Allahabad, India (A Central University)	2003	1 st	69 %	Biochemistry (1st Position)
Ph.D	University of Allahabad, India (A Central University)	May 2008	-----		<p style="text-align: center;">Biochemistry</p> <p style="text-align: center;">PhD Thesis Title:</p> <p style="text-align: center;"><i>Alterations in erythrocytes during aging in humans</i></p> <p style="text-align: center;">Supervisor: Prof. S.I.Rizvi</p>

Full Publications List: Citations: 1038+; h-index = 16; i10-index =30
Google scholar: <https://scholar.google.co.in/citations?user=aUr486UAAAAJ&hl=en>

*Corresponding author

1. Aggrawal T, Wadhawa R, Thapliyal N, Sharma K, Rani V, **Maurya PK***. Oxidative, inflammatory, genetic and epigenetic biomarkers associated with chronic obstructive pulmonary disorder. *J. Cell. Physiol.* 234(3):2067-2082; 2019. [PMID: 30171697 DOI: 10.1002/jcp.27181.] (**Impact Factor: 4.080**).
2. **Maurya PK**, Rizzo LB, Xavier G, Tempaku PF, Ota VK, Santoro ML, Spíndola LM, Moretti P, Mazzotti DR, Gadelha A, Gouvea ES, Noto C, Maes M, Cordeiro Q, Bressan RA, Brietzke E, Belangero SI. Leukocyte telomere length variation in different stages of

- schizophrenia. *J. Psychiatr. Res.* 96 (2018) 218-223; 2018 [PMID: 29102816 DOI: 10.1016/j.jpsychires.2017.10.016.] **(Impact Factor: 4.183).**
3. Kumar P, Wadhawa R, Gupta R, Chandra P, **Maurya PK***. Spectroscopic determination of intracellular quercetin uptake using erythrocyte model and its implications in human aging. *3 Biotech.* 8(12):498; 2018. [PMID: 30498671 DOI: 10.1007/s13205-018-1524-4.] **(Impact Factor: 1.497).**
 4. Aggrawal T, Wadhawa R, Rohil V, **Maurya PK***. Biomarkers of oxidative stress and protein-protein interaction in chronic obstructive pulmonary disease. *Arch. Physiol. Biochem.* 124(3):226.231; 2018[PMID:29020824 DOI:10.1080/13813455.2017.1387796] **(Impact Factor: 1.3).**
 5. Xavier G, Spindola KM, Ota VK, Carvalho CM, **Maurya PK**, Tempaku PF, Moretti PN, Mazotti DR, Sato JR, Brietzke E, Miguel EC, Oliveira RG, Mari J, Bressan RA, Gadelha A, Pan PM, Belangero SI. Effect of male-specific childhood trauma on telomere length. *J. Psychiatr. Res.* 107:104-109; 2018. PMID: 30384090 DOI: 10.1016/j.jpsychires.2018.10.012] **(Impact Factor: 4.183).**
 6. Tempaku PF, Hirotsu C, Mazzotti DR, Xavier G, **Maurya PK**, Rizzo LB, Brietzke E, Belangero SI, Poyares D, Tufik S. Long-sleepers, insomnia and insomnia with short objective sleep duration are independently associated with short telomere length. *J. Clin. Sleep Med.* 2018 (Accepted) **(Impact Factor: 3.396).**
 7. Rahmawati E, Yang WCV, **Maurya PK**, Lei YP, Chen HW, Tzeng CR. Gonadotropin-releasing hormone agonist induces downregulation of tensin 1 in women with endometriosis. *Acta. Obstet. Gynecol. Scand.* 2018. (In press) [PMID: 30312486 DOI: 10.1111/aogs.13481]. **(Impact Factor: 2.649).**
 8. Salehi B, Martorell M, Arbiser JL, Sureda A, Martins N, **Maurya PK**, Sharifi-Rad M, Kumar P, Sharifi-Rad J. Antioxidants: Positive or Negative Actors? *Biomolecules.* Oct 25;8(4); 2018. [PMID: 30366441 DOI: 10.3390/biom8040124].
 9. Rizzo LB, Swardfager W, **Maurya PK**, Graiff MZ, Pedrini M, Asevedo E, Cassinelli AC, Bauer ME, Cordeiro Q, Scott J, Brietzke E, Cogo-Moreira H. An immunological age index in bipolar disorder: a confirmatory factor analysis of putative immunosenescence markers and associations with clinical characteristics. *Int. J. Methods Psychiatr. Res.* 27(4):e1614; 2018. [PMID: 29691917 DOI: 10.1002/mpr.1614] **(Impact Factor: 3.176).**
 10. Deori NM, Kale A, **Maurya PK**, Nagotu S. Peroxisomes: role in cellular ageing and age related disorders. *Biogerontology.* 19(5):303-324; 2018. [PMID: 29968207 DOI: 10.1007/s10522-018-9761-9] **(Impact Factor: 3.702).**
 11. Mahato K, Kumar A, **Maurya PK**, Chandra P. Shifting paradigm of cancer diagnoses in clinically relevant samples based on miniaturized electrochemical nanobiosensors and microfluidic devices. *Biosens. Bioelectron.* 100:411-428; 2018 [PMID: 28957706 DOI:

- 10.1016/j.bios.2017.09.003] (**Impact Factor: 7.780**).
12. Gandhi S, Banga I, **Maurya PK**, Eremin S. Gold nanoparticles-single chain fragment variable antibody as immunoprobe for rapid detection of morphine by dipstick. *RSC Adv.* **8**: 1511-1518 ; 2018 (**Impact Factor: 3.289**).
 13. Mahto K, **Maurya PK***, Chandra P. Fundamentals and commercial aspects of nanobiosensors in point-of-care clinical diagnostics. *3 Biotech.* 8(3):149; 2018. [PMID: 29487778 DOI: 10.1007/s13205-018-1148-8] (**Impact Factor: 1.5**).
 14. Baranwal A, Srivastava A, Kumar P, Bajpai VK, **Maurya PK**, Chandra P. Prospects of Nanostructure Materials and their Composites as Antimicrobial Agents. *Front Microbiol.* 9:422; 2018. [PMID: 29593676 DOI: 10.3389/fmicb.2018.00422] (**Impact Factor: 4.076**).
 15. **Maurya PK**, Rizzo LB, Xavier G , Tempaku PF, Zeni-Graiff M ,Mazzotti DR, Zugman A, Pan P, Noto C, Maes M, Asevedo E, Mansur RB, Cunha GR, Gadelha A, Bressan RA, Belangero SI , Brietzke E. Shorter leukocyte telomere length in patients at ultra high risk for psychosis. *Eur. Neuropsychopharmacol.* 27(5):538-542; 2017 [PMID: 28274506 DOI: 10.1016/j.euroneuro.2017.02.008] (**Impact Factor: 4.409**).
 16. Zeni-Graif M, Rios AC, **Maurya PK**, Rizzo LB, Sethi S, Yamagata AS, Mansur RB, Pan P, Asevedo E, Cunha GR, Zugman A, Bressan RA, Gadelha A, Brietzke E. Peripheral levels of superoxide dismutase and glutathione peroxidase in a sample of youth in ultra-high risk for psychosis: A pilot study. *CNS Spectr.* 2017. (In press) (**Impact Factor: 3.19**).
 17. Rios AC, **Maurya PK**, Pedrini M, Zeni-Graiff M, Asevedo E, Mansur RB, Wieck A, Grassi-Oliveira R, McIntyre RS, Hayashi MAF, Brietzke E. Microbiota abnormalities and the therapeutic potential of probiotics in the treatment of mood disorders. *Rev Neurosci.* 28(7):739-749; 2017 [PMID: 28593878 DOI: 10.1515/revneuro-2017-0001]. (**Impact Factor: 3.198**).
 18. **Maurya PK**, Noto C, Rizzo LB, Rios AC, Nunes SOV, Barbosa DS, Sethi S, Zeni M, Mansur RB, Maes M, Brietzke E. The role of oxidative and nitrosative stress in accelerated aging and major depressive disorder. *Prog. Neuropsychopharmacol. Biol. Psychiatry.* 65:134-144; 2016 [PMID: 26348786 DOI: 10.1016/j.pnpbp.2015.08.016]. [Citations:11] (**Impact Factor: 4.361**).
 19. Kumar P, Chaudhary N, Sharma NK, **Maurya PK***. Detection of oxidative stress biomarkers in myricetin treated red blood cells. *RSC Adv.*6:100028-10002016; 2016 [DOI:10.1039/C6RA15213A]. (**Impact Factor: 3.289**).
 20. **Maurya PK***, Kumar P, Nagotu S, Chand S, Chandra P. Multi-target detection of oxidative stress biomarkers in quercetin and myricetin treated human red blood cells. *RSC Adv.* 6: 53195-53202; 2016. [DOI: 10.1039/C6RA05121A]. (**Impact Factor:**

3.289).

21. Tempaku PF, Mazzotti DR, Hirotsu C, Andersen ML, Xavier G, **Maurya PK**, Rizzo LB, Brietzke E, Belangero SI, Bittencourt L, Tufik S. The effect of the severity of obstructive sleep apnea syndrome on telomere length. *Oncotarget*. 7(43):69216-69224; 2016. [PMID: 27690344 DOI: 10.18632/oncotarget.12293]. (**Impact Factor: 6.359**).
22. Levandowski ML, Tractenberg SG, Azeredo LA, Nardi T, Rovaris DL, Bau CHD, Rizzo LB, **Maurya PK**, Brietzke E, Tyrka AR, Oliveira RG. Crack cocaine addiction, early life stress and accelerated cellular aging among women. *Prog. Neuropsychopharmacol. Biol. Psychiatry*. 71:83-89; 2016 [PMID: 27346744 DOI: 10.1016/j.pnpbp.2016.06.009]. (**Impact Factor: 4.361**).
23. Zeni-Graiff M, Rizzo LB, Mansur RB, **Maurya PK**, Sethi S, Cunha GR, Asevedo E, Pan P, Zugman A, Yamagata AS, Higuchi C, Bressan RA, Gadelha A, Brietzke E. Peripheral immune-inflammatory abnormalities in ultra-high risk for psychosis. *Schizophrenia Res*. 176(2-3):191-5; 2016 [PMID: 27424266 DOI: 10.1016/j.schres.2016.06.03]. (**Impact Factor: 4.453**).
24. Mansur RB, Cunha GR, Asevedo E, Zugman A, Zeni-Graiff M, Rios AC, Sethi S, **Maurya PK**, Levandowski ML, Gadelha A; Pan PM, Stertz L, Belangero SI, Kauer-Sant'Anna M, Teixeira AL, Mari JJ, Rohde LA, Miguel EC, McIntyre RS, Grassi-Oliveira R; Bressan RA, Brietzke E. Socioeconomic Disadvantage Moderates the Association between Peripheral Biomarkers and Childhood Psychopathology. *PLoS One*. 11(8):e0160455; 2016. [PMID: 27489945 DOI: 10.1371/journal.pone.0160455]. (**Impact Factor: 3.057**).
25. Baranwal A, Mahato K, Srivastava A, **Maurya PK**, Chandra P. Phytofabricated metallic nanoparticles and their clinical applications. *RSC Adv*. 6, 105996-106010; 2016 [DOI 10.1039/C6RA23411A] (**Impact Factor: 3.289**).
26. **Maurya PK***, Kumar P, Chandra P. Age dependent detection of erythrocytes glucose-6-phosphate dehydrogenase and its correlation with oxidative stress. *Arch. Physiol. Biochem*. 122(2):61-6; 2016. [PMID: 26711700 DOI: 10.3109/13813455.2015.1136648] [Citations:02] (**Impact Factor: 1.763**).
27. Kumar P, Chand S, **Maurya PK***. Quercetin modulated erythrocyte membrane sodium hydrogen exchanger during human aging: correlation with erythrocyte ATPase's. *Arch. Physiol. Biochem*. 122(3):141-7; 2016. [PMID: 26835548 DOI: 10.3109/13813455.2016.1150299] [Citations: 01]. (**Impact Factor: 1.763**).
28. Kumar N, **Maurya PK**, Kant R, Rizvi SI. (-) - Epicatechin in vitro ameliorates erythrocyte protein carbonyl content in hypertensive patients: comparison with L-ascorbic acid. *Arch. Physiol. Biochem*. 122(3):155-60; 2016. [PMID: 26939969 DOI: 10.3109/13813455.2016.1159699]. (**Impact Factor: 1.763**).

29. Chandra P, Prasad A, Mahato K, Joshi SN, **Maurya PK**, Srivastava A. Bioinspired composite materials: applications in diagnostics and therapeutics. *Journal of Molecular and Engineering Materials*. 2016. [DOI: 10.1142/S2251237316400049] (In Press).
30. **Maurya PK**, Kumar P and Chandra P. Biomarkers of oxidative stress in erythrocytes as a function of human age. *World J. Methodol.* 5(4): 216-222; 2015 [PMID: 26713282 DOI: 10.5662/wjm.v5.i4.216] [Citations: 03].
31. Kumar P, Chand S, Chandra P, **Maurya PK***. Influence of dietary capsaicin on redox status in red blood cells during human aging. *Adv. Pharm. Bull.* 5(4): 583-586; 2015 [PMID: 26819932 DOI: 10.15171/apb.2015.078]. (**Impact Factor: 0.885**).
32. Kumar P, **Maurya PK***. Epigallocatechin-3- gallate protects erythrocyte Ca²⁺-ATPase and Na⁺/K⁺-ATPase against oxidative induced damage during aging in humans. *Adv. Pharm. Bull.* 4: 443-447; 2014. [PMID: 25364660 DOI 10.5681/apb.2014.065] [Citations:05] (**Impact Factor: 0.885**).
33. Li LH, Yen MY, Ho CC, Wu P, Wang CC, **Maurya PK**, Chen PS, Chen W, Hsieh WY, Chen HW. Non-cytotoxic nanoparticles enhance antimicrobial activities of cefmetazole against multidrug-resistant *Neisseria Gonorrhoeae*. *PLoS One.* 8(5):e64794; 2013. [PMID: 23705013 DOI 10.1371/journal.pone.0064794] [Citations:07] (**Impact Factor: 4.09**).
34. Kumar P, **Maurya PK***. L-cysteine efflux in erythrocytes as a function of human age: correlation with reduced glutathione and total antioxidant potential. *Rejuvenation Res.* 16 (3):179-184; 2013. [PMID: 23442131 DOI 10.1089/rej.2012.1394] [Citations: 11] (**Impact Factor: 3.931**).
35. **Maurya PK***, Prakash S. Decreased activity of Ca⁺⁺-ATPase and Na⁺/K⁺ -ATPase during aging in humans. *Appl. Biochem. Biotechnol.* 170 (1): 131-137; 2013. [PMID: 23483411 DOI 10.1007/s12010-013-0172-8] [Citations: 09] (**Impact Factor: 1.893**).
36. LeeYM, Chen HW, **Maurya PK**, Su CM, Tzeng CR. MicroRNA regulation via DNA methylation during the morula to blastocyst transition in mice. *Mol. Human Reprod.* 18(4):184-93; 2012. [PMID: 22053057 DOI 10.1093/molehr/gar072] [Citations:14] (**Impact Factor: 4.542**).
37. Kumar N, Kant R, **Maurya PK**, Rizvi SI. Concentration dependent effect of (-) epicatechin on Na⁺/K⁺ -ATPase and Ca²⁺- ATPase inhibition induced by free radicals in hypertensive patients: comparison with L-ascorbic acid. *Phytotherapy Res.* 26 (11): 1644-1647; 2012. [PMID: 22371366 DOI 10.1002/ptr.4624] [Citations:05] (**Impact Factor: 2.397**).
38. Khanna A, **Maurya PK***. Role of tea catechins in prevention of aging and age-related disorders. *TANG.* 2: 1-11; 2012.

39. **Maurya PK***, Prakash S. Intracellular uptake of (-) epicatechin by human erythrocytes as a function of human age. *Phytotherapy Res.* **25(6)**: 944-946; 2011. [PMID: 21626601 DOI 10.1002/ptr.3343] [Citations: 10] (**Impact Factor: 2.66**).
40. Pandey KB, Mehdi MM, **Maurya PK**, Rizvi SI. Plasma protein oxidation and its correlation with antioxidant potential during human aging. *Dis. Markers.* **29 (1)**: 31-36; 2010. [PMID: 20826915 DOI 10.3233/DMA-2010-0723] [Citations: 30] (**Impact Factor: 2.174**).
41. Kumar N, Kant R, **Maurya PK***. Concentration dependent effect of (-) epicatechin in hypertensive patients. *Phytotherapy Res.* **24 (10)**: 1433-1436; 2010. [PMID: 20127878 DOI 10.1002/ptr.3119] [Citations: 11] (**Impact Factor: 2.397**).
42. **Maurya PK***, Kumar P, Siddiqui N, Tripathi P, Rizvi SI. Age associated changes in erythrocyte glutathione peroxidase activity: Correlation with total antioxidant potential. *Indian J. Biochem. Biophys.* **47**: 319-321; 2010. [PMID: 21280570] [Citations:10] (**Impact Factor: 1.077**).
43. **Maurya PK**, Rizvi SI. Age dependent changes in glutathione-S-transferase: correlation with total total antioxidant potential and red cell intracellular glutathione. *Indian J. Clin. Biochem.* **25(4)**: 398-400; 2010. [PMID: 21966113 DOI 10.1007/s12291-010-0047-5] [Citations:05]
44. Rizvi SI, Pandey KB, Jha R, **Maurya PK**. Ascorbate recycling by erythrocytes during aging in humans. *Rejuvenation Res.* **12**: 3-6; 2009. [PMID: 19072252 DOI 10.1089/rej.2008.0787] [Citations: 33] (**Impact Factor: 3.931**).
45. **Maurya PK**, Rizvi SI. Protective role of tea catechins on erythrocytes subjected to oxidative stress during human aging. *Nat. Prod. Res.* **23(12)**: 1072-1079; 2009. [PMID: 18846469 DOI 10.1080/14786410802267643] [Citations: 46] (**Impact Factor: 1.031**).
46. Chandra P, **Maurya PK**, Kumar P, Tripathi P, Srivastava AK. Diagnosis of rheumatic infections caused by group A *Streptococcus pyogenes*: future investigation by nanotechnology. *Digest J. Nanomaterials Biostructures.* **4(4)**: 645-650; 2009. [Citations:01] (**Impact Factor: 1.750**).
47. **Maurya PK**, Arora K, Sarkar S. Role of L-ascorbic acid in the stability of human erythrocytes during aging in humans. *Indian J. Gerontol.* **23**: 1-9; 2009.
48. **Maurya PK**, Rizvi SI. Alterations in plasma nitric oxide during aging in humans. *Indian J. Biochem. Biophys.* **46**: 130-132; 2009. [PMID: 19374267] [Citations:12] (**Impact Factor: 1.077**).
49. Rizvi SI, **Maurya PK**. L-cysteine influx in erythrocytes as a function of human age. *Rejuvenation Res.* **11(3)**: 661-665; 2008. [PMID: 18593284 DOI 10.1089/rej.2007.0652] [Citations:14] (**Impact Factor: 3.931**).

50. Rizvi SI, **Maurya PK**. Alterations in antioxidant enzymes during aging in humans. *Mol. Biotechnol.* **27**: 58-61; 2007. [PMID: 17914165] [Citations: 53] (**Impact Factor: 2.275**).
51. Rizvi SI, **Maurya PK**. Markers of oxidative stress in erythrocytes during aging in humans. *Ann. N. Y. Acad. Sci.* **1100**: 373-382; 2007. [PMID: 17460201] [Citations: 92] (**Impact Factor: 4.364**).
52. Rizvi SI, Jha R, **Maurya PK**. Erythrocyte plasma membrane redox system in human aging. *Rejuvenation Res.* **9(4)**: 470-474; 2006. [PMID: 17105387] [Citations:81] (**Impact Factor: 3.931**).
53. Kumar P, **Maurya PK***. Age-related changes in erythrocyte membrane sulfhydryl group and β -D-glucuronidase activity. *Healthy Aging Res.* 4(9); 2015. [DOI <http://dx.doi.org/10.12715/har.2015.4.9>].
54. Malhotra V, Chandra P, **Maurya PK***. Control of bacterial biofilms in industrial and medical settings. *GERF Bull Biosci.* 6 (1); 1-4; 2015.
55. Kumar P, Patel VH, Kumar S, Khanna A, Siddiqui N, Kumari K, Chaudhary N, **Maurya PK***.Deficiency of serum 25-hydroxy vitamin D level in humans belong to high rainfall and high altitude area of Indian region. *Indian Res. J. Genet. & Biotech.* 9(4): 551-555; 2017.

Book:

1. Oxidative stress: Diagnostic methods and application in medical science

September, 2017 (ISBN: 978-981-10-4711-4)

Weblink:

<http://www.springer.com/us/book/9789811047107#aboutBook>

Edited by **Pawan Kumar Maurya** and Pranjal Chandra.

Publisher: Springer-Nature, **Singapore**



2. Nanotechnology in Modern Animal Biotechnology: Concepts and Applications

(Proposal accepted)

Edited by **Pawan Kumar Maurya and Sanjay Singh**

Publisher: ELSEVIER INC., Philadelphia, Pennsylvania, USA

3. Iron supplement, Oxidative Stress & Pregnancy: a critical balance

August, 2017 (ISBN: 9786202023894)

Edited by Hari Shanker (Ed.), **Pawan Kumar Maurya**, Neeta Kumar, Rajat Sandhir, Sunita Mittal, D.N. Rao
Publisher: LAP LAMBERT Academic Publishing

Book Chapters:

4. Kaur H, Kaur R, **Maurya PK***. Antipsychotic Drugs in Neuropsychiatric Diseases. "Advances in Neuropharmacology: Drugs and Therapeutics". Apple Academic Press. 2018. (Accepted).
5. **Maurya PK**. Animal biotechnology as a tool to understand and fight aging. "Animal Biotechnology: Models in Discovery and Translation". Chapter 10; Page No. 177-191; **2014**. Elsevier Inc; **USA**. (**Invited**). Editor: Ashish S Verma & Anchal Singh
6. **Maurya PK**, Kumar P, Kumar P and Brietzke E. Methods for monitoring oxidative stress using conventional and advanced nanodiagnostic methods. "Nanobiosensors for Personalized and Onsite Biomedical Diagnosis". Chapter 25; Page No. 521-536; **2016**. The Institution of Engineering and Technology, Michael Faraday House, **Stevenage, United Kingdom**. (**Invited**). [DOI 10.1049/pbhe001e_ch25] Editor: Pranjal Chandra
7. Sharma S, Srivastava R, Srivastava A, **Maurya PK** and Chandra P. Biomedical Potential of Marine Sponges. "Marine Sponges: Chemicobiological and Biomedical Applications", Springer, Page No. 329-340; **2016**. (DOI 10.1007/978-81-322-2794-6_16). Editor: Ramjee Palella
8. Srivastava R, Sharma S, Kumar P, **Maurya PK** and Chandra P. Nano-diagnostic methods based on marine enzymes "Marine Enzymes Biotechnology: Production and Industrial Applications, Part III - Application of Marine Enzymes" Elsevier Inc; **USA**. **2016**. (**Accepted**). Editor: Kim S.-K.
9. Arora N, **Maurya PK** and Kacker P. Opportunities and challenges in translational drug discovery. "Translational Bioinformatics and its Application". Springer-Nethaland, Page No. 58-87; **2017**. Editor: Dongging Wei
10. Mahato K, Baranwal A, Srivastava A, Maurya PK, Chandra P. Smart Materials for Biosensing Applications. *Techno-Societal 2016*. Springer, pp 421-431; 2016.
11. Kumar P, **Maurya PK**, Singh RK and Kamle M. Beneficial uses and Application of Plant Growth promoting rhizobacteria (PGPR) in Sustainable agriculture. "Microbiology for Sustainable Agriculture, Soil Health and Environmental Protection". Apple Academic Press, USA. 2017 (In press). Editor: Deepak Verma
12. Mahato K, Kumar S, Srivastava A, **Maurya PK**, Singh R, Chandra P. Electrochemical Immunosensors: Fundamentals and Applications in Clinical Diagnostics. "Handbook of Immunoassay Technologies". ELSEVIER, Academic Press 2018

13. Brietzke E, Yamagata AS, **Maurya PK**, Rizzo LB, Grassi-Oliveira R. Neuroprogression and accelerated aging in severe psychiatric disorders. “*Neuroprogression in Psychiatry*” **OXFORD UNIVERSITY PRESS** of Great Clarendon Street Oxford OX2 6DP (**Invited**). Editors: Flavio Kapczinski, Michael Berk, and Pedro Magalhães

Editorial:

1. Prasad A, Mahato K, **Maurya PK**, Chandra P. Biomaterials for biosensing application. *J Anal Bioanal Tech*. 2016, 7:2. <http://dx.doi.org/10.4172/2155-9872.1000e124>
2. Prasad A, Mahato K, **Maurya PK**, Chandra P. Nanobiosensors: Next Generation Point-of-Care Biomedical Devices for Personalized Diagnosis. *J Anal Bioanal Tech*, 2016, 7:e125. <http://dx.doi.org/10.4172/2155-9872.1000e125>

Patent filed:

Title	: Tea catechins and their use as anti-aging agents
Patent No	: 675/DEL/2009
Date of filing	:31/03/2009
Status	:Complete

Conferences:

1. **Maurya PK** and Rizvi SI. 8th Asia / Oceania Regional Congress of Gerontology and Geriatrics. Beijing. October 22nd -25th, 2007. China. **Received fellowship of \$500.**
2. **Maurya PK** and Rizvi SI. National Conference on “emerging trends in biochemistry and satellite symposium of the academy of environmental biology”. Allahabad. January 23rd- 24th, 2010. India.
3. **Maurya PK** and Rizvi SI. National Symposium on “emerging trends in biomedical sciences”. Dehradun. February 27th -28th, 2009. India.
4. **Maurya PK** and Rizvi SI. 3rd Uttarakhand Science & Technology Congress, Roorkee. November 10th -11th, 2008. India.
5. **Maurya PK** and Rizvi SI. Indian Ageing Congress-2006. 13th Biennial Conference of Association of Gerontology (India) and 4th Annual Conference of Indian Academy of Geriatrics. Bhubaneswar. December 22nd -24th, 2006. India.
6. **Maurya PK** and Rizvi SI. National Seminar on “New Strides in Microbiology, Biochemistry, Biotechnology & Agriculture Science”. Dehradun. February 3rd -4th,

2007. India.

7. **Maurya PK** and Rizvi SI. National Symposium & 1st UPACBICON, Aligarh. November 15th-16th, 2008. India.
8. **Maurya PK** and Rizvi SI. Society for Free Radical Research. A Satellite Meeting, New Delhi. February 11th -12th, 2008. India.
9. **Maurya PK** and Rizvi SI. 32nd Annual Conference of Association of Clinical Biochemists of India (ACBI). Patna. December 18th -21st – 2005. India.
10. **Maurya, PK**. 7th International Symposium of the International Society for the Development of Natural Products. Noida. November 15th – 17th, 2012. India.
11. **Maurya PK** and Kumar P. Global R & D Summit. New Delhi. 2013. India.
12. Arora A, **Maurya PK**, Sharma A. Protective role of l-ascorbic acid on erythrocytes subjected to oxidative stress during human aging. *New Biotechnology* 25, S2; 2009.
13. Sharma A, Arora A, **Maurya PK**. Protective effect of (–) epigallocatechin gallate against oxidative stress during erythrocyte aging in humans. *New Biotechnology* 25, S3; 2009.
14. Rahmawati E, **Maurya PK**, Kao AP, Chen HW, Tzeng CR. The biosignatures of human endometriosis with and without GnRH agonist treatment. *Fertility and Sterility* 100 (3), S362-S363; 2013.
15. Rahmawati E, **Maurya PK**, Kao AP, Chen HW, Tzeng CR. Tensin 1, MMP14, Caveolin 2, Neuritin 1 and ATP2A3 as a Candidate Panel Biomarker of Endometriosis. ACE 2014. 3rd Asian conference on endometriosis. October 24th – 26th, 2014. Songeui Medical Campus. The catholic University of Korea. Seoul, Korea.
16. Rahmawati E, **Maurya PK**, Kao AP, Chen HW, Tzeng CR. Down-regulation of Tensin 1 gene expression in human endometriotic tissue following GnRH agonist treatment. The fifth congress of Asia pacific initiative on reproduction. April 4th – 6th, 2014. Brisbane, Australia. (Awarded in best poster category).
17. Rizzo LB, Pedrini M, Asevedo E, Yamazaki JK, Graiff MZ, **Maurya PK**, Cassenelli AC, Cordeiro C and Brietzke E. The immenseness in early and late stage of Bipolar disorder 1. Society of Biological Psychiatry Annual Meeting. May 14th -16th, 2015. Toronto, Canada.
18. Levandowski M, Tractenberg S, Rizzo LB, **Maurya PK**, Brietzke E, De Nardi T, Wieck A, Grassi-Oliveira R. Telomere Length in Crack/Cocaine Use Disorder with Early Life Stress. *Neuropsychopharmacology*. 40: S592-S593; 2015.

19. Graiff MZ, Rizzo LB, **Maurya PK**, Gadelha A, Brietzke E. Cytokines Pro and anti-inflammatory cytokines in young guys at risk of mental state to develop schizophrenia and bipolar disorder. IV Congresso Clinica Psiquiatrica. March 31st – 2nd April, 2016. Sao Paulo, Brazil.
20. Rahmawati E, Yan WV, Le YP, **Maury PK**, Chen HW, Tzeng CR. GnRHa improves IVF outcome in women with endometriosis by increasing implantation marker HOXA10, activating apoptosis and autophagy-related protein, and downregulating tensin 1 and neuritin 1. 2017 Annual Meeting of Taiwanese Society for Reproductive Medicine. 26-27 August 2017, Taipei, Taiwan.

Foreign Fellowships / Invitations / Awards:

- Awarded the **post-doctoral research fellowship** (2014-2016) in a special scheme of “**Science without Borders-Attraction of Young Talent**” **Level A** by Ministry of Education and Ministry of Science and Technology through their respective funding agency CAPES, Government of **Brazil**.

Title of Project: *Bio-signature of accelerated aging in mental disorder*

- Awarded the **post-doctoral research fellowship** (2011-2012) by Taipei Medical University, Taipei, **Taiwan**.

Title of Project: *Translational genomic approaches in endometriosis*

- “**Distinguished Service Award**” for outstanding contribution in the field of “Aging Research” by Society of Biological Science and Rural Development, Allahabad, India on the occasion of National workshop on “Recent Technologies for Food Security and Rural Development” held on February, 19-25, 2018.
- Nominated for **Indian National Science Academy (INSA) Young Medal Award** for the year 2013 & 2014.
- International travel grant of **500 USD** to attend 8th Asia / Oceania Regional Congress of Gerontology and Geriatrics. Beijing. October 22nd -25th, 2007. **Beijing, China**.
- Delivered invited talk at centre for food technology, University of Allahabad, Allahabad, India. (2009, 2010, 2013).
- Delivered invited talk at Institute of Life Sciences, Ahmedabad University, India (2013, 2014).

- Invited as external examiner to conduct practical exam of Biochemistry at SBS PGI, Dehradun, UK.
- Invited as external examiner at Allahabad Agriculture Institute Deemed University, Allahabad, India.

International Collaborations

1. **Prof. Sintia Iole Belangero**, Department of Morphology and Genetics, Universidade Federal de São Paulo (Unifesp), São Paulo, **Brazil**.
2. **Prof. Diego Robles Mazzotti**, Center for Applied Genomics, The Children’s Hospital of Philadelphia, Philadelphia, **USA**.
3. **Prof. Michael Maes**, Department of Psychiatry, Chulalongkorn University, Bangkok, **Thailand**.
4. **Prof. Huei Wen Chen**, Department of Toxicology, National Taiwan University, **Taiwan**.
5. **Prof. Roger S. McIntyre**, Mood Disorders and Psychopharmacology Unit (MDPU), University Health Network (UHN), University of Toronto, Toronto, **Canada**.
6. **Prof. Chii-Ruey Tzeng**, Taipei Medical University, Taipei, **Taiwan**.

Membership:

- Association of Gerontology India (AGI), India- Life Member. (Membership Number: **L/06/375**)

Popular article:

- Prakash S and **Maurya PK**. Aging: A biological reality. *Biolixir*. 1:46-48; 2011.

Faculty development programme / refresher course:

- Participated in “Orientation programme on Management of Skill Development at Higher Education”. December 03-07, 2018. National Institute of Planning and Drug Administration (NIEPA), New Delhi.
- Participated in faculty development program on “Research Methodology. January

28-29, 2013. Amity University Uttar Pradesh. Noida, India.

Trainings Undergone:

- M.Sc research thesis on “*Isoenzymatic analysis of lactate dehydrogenase* from Indian Institute of Toxicology Research (IITR), Council of Scientific and Industrial Research, Lucknow, India.

Achievements:

- Qualified all India **Council of Scientific and Industrial Research-National Eligibility Test (CSIR-NET)**- December, 2004, Government of India.

Administrative responsibilities:

- **Head**, Department of Biochemistry, Central University of Haryana, Haryana, India (27/08/2018-till date).
- Deputy Director, Deen Dayal Upadhyay KAUSHAL Kendra, Central University of Haryana, India (14/11/2018-till date).
- Appointed as **Programme Leader** of B.Tech Biotechnology at Amity Institute of Biotechnology, Amity University Uttar Pradesh, Noida, India.
- Member admission committee Amity Institute of Biotechnology, Amity University Noida, India.
- Lab Incharge of Biochemistry Laboratory at Amity Institute of Biotechnology, Amity University Noida, India.

Reviewer of International journals

Annals of New York Academy of Sciences, USA

Revista Brasileira de Psiquiatria, Brazil

Trends in Psychiatry and Psychotherapy, Brazil

Immunology, Endocrine & Metabolic Agents in Medicinal Chemistry, Japan

Frontiers in Microbiology

Personal Information:

- Date of Birth 10/10/1980
- Father's Name Mr. Chandra Pal Maurya
- Mother's Name Smt. Sarita Maurya
- Nationality INDIAN
- Gender Male
- Languages known English , Hindi