

DR. PAWAN KUMAR MAURYA

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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 ~12 Years

Teaching & Research: (~ 9 years)

Sr. No.	Organization	Position held	Month of joining	Month of leaving
1	Department of Biochemistry Central University of Haryana, Haryana, India	Associate Professor	14/08/2018	Till date
2	Amity University, Noida, Uttar Pradesh, India	Assistant Professor	September, 2008	August 2018
3	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

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 (A 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	----		Biochemistry

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

Selected Publications: Citations: 1517+; h-index = 21; i10-index =43

Google scholar: <https://scholar.google.co.in/citations?user=aUr486UAAAAJ&hl=en>

*Corresponding author

1. Rahmawati E, Yang WCV, Lei YP, **Maurya PK**, Chen HW, Tzeng CR. Decreased level of neurotrophic factor neurtin 1 in women with ovarian endometriosis after receiving gonadotropin-releasing hormone agonist treatment. *Int. J. Mol. Sci.* 3 September, 2019. **(Impact Factor: 4.183)**.
2. Wadhwa R, Aggrawal T, Thapliyal N, Kumar S, Priya, Yadav P, Kumari V, Reddy BSC, Chandra P, **Maurya PK***. Red blood cells as an efficient in vitro model for evaluating

- the efficacy of metallic nanoparticles. *3 Biotech.* 9:279; 2019. (**Impact Factor: 1.497**).
3. Kumar A, Purohit B, **Maurya PK**, Pandey LM, Chandra P. Engineered Nanomaterial Assisted Signal-amplification Strategies for Enhancing Analytical Performance of Electrochemical Biosensors. *Electroanalysis.* 24 June 2019. (In press) (**Impact Factor: 2.691**).
 4. Aggrawal T, Wadhwa 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: 3.923**).
 5. Kumar V, Wadhwa R, Kumar N, **Maurya PK***. Comparative study of chemically synthesised and *Camellia sinesisn* leaf extract mediated silver nano-particles. *3 Biotech.* 9(1):7; 2019. [PMID: 30622845 DOI: 10.1007/s13205-018-1544-0] (**Impact Factor: 1.497**).
 6. Mehta M, Deeksha, Sharma N, Vyas M, Khurana N, **Maurya PK**, Singh H, Andreoli de Jesus TP, Dureja H, Chellappan DK, Gupta G, Wadhwa R, Collet T, Hansbro PM, Dua K, Satija S. Interactions with the macrophages: An emerging targeted approach using novel drug delivery systems in respiratory diseases. *Chem. Biol. Interact.* 304:10-19; 2019. (**Impact Factor: 3.296**).
 7. Dua K, Wadhwa R, Singhvi G, Rapalli VK, Shukla SD, Shastri MD, Gupta G, Satija S, Mehta M, Khurana N, Awasthi R, **Maurya PK**, Thangavelu L, Kumar SR, Tambuwala MM, Collet T, Hansbro PM, Chellappan DK. The potential of siRNA based drug delivery in respiratory disorders: recent advances and progress. *Drug Dev. Res.* 2019 (In press). (**Impact Factor: 2.646**).
 8. Wadhwa R, Aggarwal T, Malyla V, Kumar N, Gupta G, Chellappan DK, Dureja H, Mehta M, Satija S, Gulati M, **Maurya PK**, Collet T, Hansbro PM, Dua K. Identification of biomarkers and genetic approaches towards chronic obstructive pulmonary disease. *J. Cell. Physiol.* Feb. 2019 (Accepted) (**Impact Factor: 3.923**).
 9. 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.* 98(2):222-231; 2019.[PMID: 30312486 DOI: 10.1111/aogs.13481]. (**Impact Factor: 2.649**).
 10. Mahato K, Nagpal S, Shah MA, Srivastava A, **Maurya PK**, Roy S, Jaiswal A, Singh R, Chandra P. Gold nanoparticle surface engineering strategies and their applications in biomedicine and diagnostics. *3 Biotech.* 9(2):57; 2019. [PMID: 30729081 DOI: 10.1007/s13205-019-1577-z] (**Impact Factor: 1.497**).
 11. Dua K, Malyla V, Singhvi G, Wadhwa R, Krishna RV, Shukla SD, Shastri MD, Chellappan DK, **Maurya PK**, Satija S, Mehta M, Gulati M, Hansbro N, Collet T,

- Awasthi R, Gupta G, Hsu A, Hansbro PM. Increasing Complexity and Interactions of Oxidative stress in Chronic Respiratory Diseases: An Emerging Need for Novel Drug Delivery Systems. *Chem. Biol. Interact.* 299:168-178; 2019. [PMID: 30553721 DOI: 10.1016/j.cbi.2018.12.009] **(Impact Factor: 3.296)**.
12. Wadhwa R, Gupta R, **Maurya PK***. Oxidative stress and accelerated aging in neurodegenerative and neuropsychiatric disorder. *Curr. Pharm. Des.* 24(40):4711-4725; 2018. [PMID: 30644343 DOI: 10.2174/1381612825666190115121018.] **(Impact Factor: 2.757)**.
13. **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)**.
14. 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)**.
15. 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)**.
16. 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)**.
17. 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.* 14(12):2037-2045; 2018. [PMID: 30518442 DOI: 10.5664/jcsm.7532] **(Impact Factor: 3.396)**.
18. 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.* 8(4):124; 2018. [PMID: 30366441 DOI: 10.3390/biom8040124].
19. 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**).
20. 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**).
21. 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**).
22. 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**).
23. 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**).
24. 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**).
25. **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**).
26. 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*. 24(3):333-337; 2019 (**Impact Factor: 3.19**).
27. 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**).
28. **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**).

29. 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**).
30. **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**).
31. 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**).
32. 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**).
33. 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**).
34. 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**).
35. 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**).
36. **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**).
37. 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).**
38. 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).**
39. 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).
40. **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].
41. 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).**
42. 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).**
43. 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).**
44. 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).**
45. **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).**
46. 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).**

47. 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**).
48. Khanna A, **Maurya PK***. Role of tea catechins in prevention of aging and age-related disorders. *TANG.* **2:** 1-11; 2012.
49. **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**).
50. 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**).
51. 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**).
52. **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**).
53. **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]
54. 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**).
55. **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**).
56. Chandra P, **Maurya PK**, Kumar P, Tripathi P, Srivastava AK. Diagnosis of rheumatic infections caused by group A *Streptococcus pyrogenes*: future investigation by nanotechnology. *Digest J. Nanomaterials Biostructures.* **4(4):** 645-650; 2009. [Citations:01] (**Impact Factor: 1.750**).
57. **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.

58. **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**).
59. 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**).
60. 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**).
61. 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**).
62. 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**).
63. Kumar P, **Maurya PK***. Age-related changes in erythrocyte membrane sulfhydryl group and β -D-glucuronidase activity. *Healthy Aging Res.* 4(9):1-5; 2015. [DOI <http://dx.doi.org/10.12715/har.2015.4.9>].
64. Malhotra V, Chandra P, **Maurya PK***. Control of bacterial biofilms in industrial and medical settings. *GERF Bull Biosci.* 6 (1); 1-4; 2015.
65. 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.

Books:

1. **Oxidative stress: Diagnostic methods and application in medical science**
Edited by **Pawan Kumar Maurya** and Pranjal Chandra.
Publisher: Springer-Nature, Singapore
Year:2017
2. **Nanotechnology in Modern Animal Biotechnology: Concepts and Applications**
Edited by **Pawan Kumar Maurya** and Sanjay Singh
Publisher: ELSEVIER INC., Philadelphia, Pennsylvania, USA
Year: 2019

3. Nanotechnology in Modern Animal Biotechnology: Recent Trends and Future Perspectives

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

Publisher: Springer-Nature, Singapore

Year:2019

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

Edited by Hari Shanker (Ed.), **Pawan Kumar Maurya**, Neeta Kumar, Rajat Sandhir, Sunita Mittal, D.N. Rao

Publisher: LAP LAMBERT Academic Publishing

Year:2017

Book Chapters:

1. Wadhwa R, Shukla SD, Chellappan DK, Gupta G, Collet T, Hansbro N, Oliver B, Williams K, Hansbro PM, Dua K, **Maurya PK***. Phytotherapy in Inflammatory Lung Diseases: An Emerging Therapeutic Interventional Approach. "Phytochemistry: An in-silico and in-vitro Update". Page No. 331-347; 2019. Springer-Nature (**Invited**). ISBN: 978-981-13-6919-3.
2. Brietzke E, Yamagata AS, **Maurya PK**, Rizzo LB. Neuroprogression and accelerated ageing in severe psychiatric disorders. "*Neuroprogression in Psychiatry*". **Chapter 03. 2019**. Oxford University Press, UK. (**Invited**). Editors: Flavio Kapczinski, Michael Berk, and Pedro Magalhães. ISBN: 9780198787143.
3. Aggarwal T, Wadhwa R, Thapliyal N, Gupta R, Hansbro PM, Dua K, **Maurya PK***. Recent Trends of Nano-materials as Antimicrobial Agents. "*Nanotechnology in modern animal biotechnology: Recent trends and future prospective*". Springer-Nature, Singapore; 2019.
4. Kaur H, Kaur R, Rani V, Sharma K, **Maurya PK***. Antipsychotic Drugs. "*Advances in Neuropharmacology: Drugs and Therapeutics*". Apple Academic Press. 2020.
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**. 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.

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>

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, **Maurya 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, Taiepi, Taiwan.
 21. Belangero SI, Talarico F, Spindola L, **Maurya PK**, Xavier G, Ota V, Moretti P, Gadelha A, Gouvea E, Noto C, Cordeiro Q, Bressan R, Jong S, Santoro M, Breen G. Indication of cell aging based on DNA methylation in early stage of Schizophrenia. *European Neuropsychopharmacology*. 29: S947;2019.
 22. Micali D, Xavier G, Spindola L, Ota V, **Maurya PK**, Tampaku P, Moretti M, Pan P, Rohde L, Gadelha A, Mazzotti D, Sato J, Junior GS, Bressan R, Belangero SI. Leukocyte Telomere length analysis in children and adolescents at risk of developing mental disorders. *European Neuropsychopharmacology*. 29: S931-S932; 2019.

Membership:

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

- Association of Microbiologist of India (AMI)-Life Member (Membership Number:4868-2019)

Faculty development programme / refresher course:

- Participated in one day workshop on “Biotechnology Start-up Ecosystem in India”. March 18, 2019. Indian National Science Academy (INSA), New Delhi.
- Participated in “Three Days workshop on preparation of qualification files and NSQF alignment of courses”. 23rd -25th January, 2019. Shri Vishwakarma Skill University, Gurugram, Haryana.
- 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 “One day faculty Induction Programme”. December 13, 2018. Central University of Haryana.
- Attended Launch of “SHEYAS” Portal by Honorable HRD Minister, Shri Prakash Javrekar at India Habitate Center. 27th February, 2019.
- Participated in faculty development program on “Research Methodology. January 28-29, 2013. Amity University Uttar Pradesh. Noida, India.

Administrative responsibilities:

- **Deputy Director-** Deen Dayal Upadhyay KAUSHAL Kendra, Central University of Haryana, India (14/11/2018-till date).
- **Head-** Department of Biochemistry, Central University of Haryana, Haryana, India (27/08/2018-17/01/2019).
- **In charge-** University Health Center, Central University of Haryana, Haryana, India (29/01/2019-May 2019).
- **Chairman-** Board of Studies (BOS), Deen Dayal Upadhyay Kaushal Kendra (DDUKK), Central University of Haryana, Haryana, India.
- **Member Secretary,** Institutional Human Ethical Committee, Central University of Haryana, Haryana, India.
- **Nodal officer,** Orientation programme on “Management skill Development at Higher Education at National Institute of Educational Planning and Administration (NIEPA), New Delhi (03/12/2018 to 07/12/2018).

- **Convener**- Invitation, Printing and Editorial Committee, Fifth Convocation of Central University of Haryana-27th February 2019.
- **Convener**- Information Bulletin, CUH (2019-20).
- **Convener**-Financial Committee, National Science Day, Central University of Haryana-28th February 2019.
- **Convener**- Printing Committee (Certificates, Abstract Book, Brochure and Conference Proceedings). First Annual Interdisciplinary Conference, 27-28, April 2019.
- **Convener**- TA/DA and Transportation of Resource Persons. First Annual Interdisciplinary Conference, 27-28, April 2019.
- **Member**, School Board (School of Life Sciences), Central University of Haryana, Haryana, India.
- **Member**, Board of Studies (BOS), Department of Biochemistry, Central University of Haryana, Haryana, India.
- **Superintendent**, Odd semester exam-2018, Central University of Haryana, Haryana, India.
- **Member**, Selection Committee for selection of Guest Faculty for the Department of Biochemistry, Central University of Haryana, Haryana, India.
- **Member Secretary**, Teachers Grievance-Redressal Committee, Central University of Haryana, Haryana, India.
- **Member**, Allocation of space in Academic Block-1, Central University of Haryana, Haryana, India.