*CURRICULUM VITAE*

1. **Personal details**

* Name : ***Dr. Mohan Prasad Singh***
* Father’s Name : Late Shri S. N. Singh
* Designation : Professor
* Date of Birth : January 02, 1965
* Contact address : P**rof. M. P. Singh**

Centre of Biotechnology

University of Allahabad,

Prayagraj -211002, India

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**G Scholar:** <https://scholar.google.co.in/citations?user=guPsdO4AAAAJ&hl=en>

**ORCID iD:** <https://orcid.org/0000-0002-6236-856X>

**Web of Science Researcher ID:** [F-7059-2011](https://publons.com/researcher/F-7059-2011/)

**LinkedIn** : <https://www.linkedin.com/in/mp-singh-a5778816/>

**Loop**: <https://loop.frontiersin.org/people/59800/publications>

**Publon**: <https://publons.com/dashboard/records/publication/authored/>

**Sciprofile**: <https://sciprofiles.com/profile/605104>

### <https://www.scopus.com/authid/detail.uri?authorId=57203297316>

<https://twitter.com/16Mpsingh>

**2. ACADEMIC QUALIFICATIONS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Exam. Passed | Board/University | Year of passing | Division | Subjects |
| High School /Matriculation | Bihar School Exam. Board, Patna | 1979 | First | Eng., Math., Hindi, Phy., Chem. *etc.* |
| I. Sc. (Intermediate of Science)/+2 | Ranchi University, Ranchi | 1982 | **First** | Biology, Engl., Phy., Chem. *etc*. |
| B.Sc. (Hons.) School | Panjab University, Chandigarh | 1987 | **First** | Botany |
| M.Sc. (Hons.) | Panjab University, Chandigarh | 1988 | **First** | Botany |
| M. Phil. | Panjab University, Chandigarh | 1990 | **First** | “SCREENING OF WASTELAND FLORA & ITS PLANTATION IN & AROUND CHANDIGARH” |
| Introduction to computers & FORTRAN programming | Panjab University, Chandigarh | 1989  (30.1.1989 to 14.3.1989) | **First** | Computer |
| Ph.D. | Panjab University, Chandigarh | 1998 | “STUDIES ON BIODEGRADATION OF COMPOST AND GROWTH BEHAVIOUR OF OYSTER MUSHROOMS” | |

**3. AWARDS/ HONOURS/SCHOLARSHIP/FELLOWSHIP ETC. WON**

|  |  |
| --- | --- |
| **Name of Award** | **Conferring Agency** |
| **Visiting Professor**  **2019-2022** | Department of Chemistry & Biochemistry,  **University of Maryland Baltimore County (UMBC), Baltimore, MD 21250 (USA)** |
| **Bioved Ratna Award**  (2020) | Bioved Research Institute of Agriculture Technology & Sciences |
| **Lifetime Achievement award** (2019) | Society for Bioinformatics and Biological Sciences |
| **Fellow** (2018) | Academy of Environmental Biology |
| **Fellow** (2018) | Bioved Research Institute of Agriculture Technology & Sciences |
| **Award of Excellence** (2018) | University of Allahabad |
| **Session Chair** | International Conference ‘Smart Biomedical and Physiological Sensor Technologies Conference XV’ held during 14-18 April 2019 at Baltimore Convention Center, Maryland, USA |
| **Distinguished Service Award 2018** | Society of Biological Sciences and Rural Development |
| **Scientist of the Year Award -2017** | Society for Bioinformatics and Biological Sciences |
| **Visiting short-term scholar 2012** | Department of Molecular Microbiology and Immunology, **University of Missouri-Columbia (MU), USA** |
| **UGC-JRF** | Panjab University, Chandigarh |
| **JRF (Junior Research Fellow)** | Central Institute of Medicinal and Aromatic Plants (CIMAP), Lucknow |
| **Qualified joint CSIR-UGC Lecturership** | UGC, New Delhi |
| **Qualified joint CSIR-UGC JRF** | UGC, New Delhi |
| **Qualified GATE – 1990** | Indian Institute of Science, Bangalore |
| **Research Fellowship** | Energy Research Centre, Panjab University, Chandigarh |

**RECOGNITION:**

* Represented Allahabad University in Festival of Innovation & Entrepreneurship (FINE) - 2018 at Rashtrapati Bhawan, New Delhi during 20-21 March 2018. Hon’ble President of India addressed us on 21 March 2018 since we were shortlisted.
* Nominated by Vice-Chancellor, University of Allahabad for **Visitors Award – 2018**

**4. TEACHING EXPERIENCE**

* 28- Years of teaching at PG level

|  |  |  |
| --- | --- | --- |
| **Post** | **Period** | **Institution** |
| Professor | 1-8-2013 to till date | Centre of Biotechnology, University of Allahabad, Prayagraj – 211002 |
| Professor | 1-5- 2008 to 31-7-2013 | Department of Biotechnology, VBS Purvanchal University, Jaunpur |
| Reader  (Associate Professor) | 1-5- 2000 to 30-4-2008 | Department of Biotechnology, VBS Purvanchal University, Jaunpur |
| Lecturer  (Assistant Professor) | 3-1-2000 to 30-4-2000 | Department of Biotechnology, VBS Purvanchal University, Jaunpur |
| Lecturer (Assistant Professor) | 1-5-1992 to 2-1- 2000 | Department of Botany, H.N.B. Garhwal University Campus, Pauri (Garhwal) |

**Contribution to teaching**

* Worked as subject expert in NCERT Workshop for production of instructional material for +2 level Lecturers in Botany at H.N.B. Garhwal University Srinagar, Garhwal from June 6-11, 1994.
* Contributed significantly in designing M.Sc. courses of Biotechnology, Microbiology, Biochemistry and Environmental Science since 2000 onwards at VBS Purvanchal University, Jaunpur.
* Contributed significantly in starting M.Sc. Microbiology, Biochemistry and Environmental Science at VBS Purvanchal University, Jaunpur.
* Designed and developed courses for Ph.D. Students in 2011 at VBS Purvanchal University, Jaunpur.
* Prepared and submitted proposal to start 5-new courses in the VBS Purvanchal University Campus.

**5. RESEARCH EXPERIENCE**

* + **Area of Research**:
    - Microbial and Mushroom Biotechnology
    - Molecular Biology
    - Bioremediation and biodegradation through *Pleurotus* species.
    - Therapeutic mushroom biotechnology
    - Mushroom nutraceuticals
    - Computational and metagenomics mushroom biotechnology
  + **Research Projects**:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| S.N. | Title of Project | Funding agency | Sanction letter no.& date | Duration | Amount  (Rs.) | Remark |
| 1. | Construction of Cold Inducible Expression System | **DBT**, New Delhi | No. BT/PR20258/BBE/117/188/2016 dated 16/02/2017 | 2017-2020 | 36.103 lakh | Co-PI |
| 2. | Bioremediation of synthetic dyes pollution by white rot fungi (*Pleurotus s*pp) | **UGC,** New Delhi | F.No. 41-1126/2012 (SR) dated 25 July 2012 | 2012-2015 | 13.093 lakh | PI |
| 3. | Mushroom production, training and Research centre | **UGC,** New Delhi | No. 842/UGC/PU dated 7/4/2012 | 2012- 2013 | 14.69 Lakh | PI |
| 4. | Studies on Heavy Metals Removal by White Rot Fungi | **CSTUP**, Lucknow | No. CST/3222 dated 16.03.2010 | 2010-2013 | 6.06 lakh | PI |
| 5. | Biological efficiency and nutritional analysis of oyster mushroom during its cultivation on different agrowastes | **CSTUP**, Lucknow | No. CST/AAS/D-781 dated 24 July, 2006 | 2006-2008 | 2.72 lakh | PI |
| 6. | Studies on lignocellulosic wastes degradation and enzyme activities during oyster mushroom cultivation | **UGC**, New Delhi | No. F.3.-40/2003 (SR) | 2003-2006 | 5.30 lakh | PI |
| 7. | Studies on mushroom flora of Pauri& adjoining area | **UGC**, New Delhi | HNBGU/UGC/99/335/429 dated 7/4/1999 | 1999- 2000 | 0.40 lakh | PI |

* Department of Biotechnology has been placed under **“FIST Programme - 2011”** for financial support under Level-1 category by DST, New Delhi. **Rs. 40 lakh has been sanctioned** by my effort during my Headship.
  + **Research Guidance**:

12 Students – Ph.D. degree awarded

08 Students – registered for Ph.D.

01 Post doctorate fellow (DS Kothari Fellowship) working

01 Post doctorate fellow (DS Kothari Fellowship) completed

50 M.Sc. Students completed 6 months project training

06 M.Sc. Students completed 2 months summer training

**6. PUBLICATIONS: Over 100**

* **Books (**edited) : 05 (**01 from India 04 from Nova Science Publishers, USA**)
* **Research papers**: 58
* **Book chapters** : 38
* **Abstracts**: 44
* **Popular articles**: 05
* **Lead Guest Editor** of special issue (Biokumbh) of a peer reviewed international scientific journal of repute, ***Cellular and Molecular Biology* (CMB), 2016** published from OMICS (<http://www.omicsonline.com/open-access/ArchiveCMB/articleinpress-cellular-and-molecular-biology-open-access.php> )
* **Guest Editor** of special issue (Bioremediation, bioenergy and stress biology) of a peer reviewed international scientific journal of repute, ***Cellular and Molecular Biology* (CMB), 2014 *(Impact factor 1.46)*** published from France. (<http://www.cellmolbiol.com/>)
* **Lead Guest Editor** of special issue (Frontiers in Biological Sciences) of a peer reviewed international scientific journal of repute, ***Cellular and Molecular Biology* (CMB), 2012*(Impact factor 1.46)*** published from France. (<http://www.cellmolbiol.com/>)
* **Member Editorial Board, *American Journal of Microbiological Research***

(<http://www.sciepub.com/journal/AJMR/EditorialBoard#.UZ38-KJgqv4>)

* **Member Editorial Board**, ***Asiatic Journal of Biotechnology Resources***

(<http://www.pacificjournals.com/editorial_board.html>)

* **Member Editorial Board, *Aperito Journal of Cellular and Molecular Biology***

(<http://aperito.org/journal/ebm_display/18>)

* **Member, Editorial Board, *Source Journal of Bioremediation***

(<http://www.researchsource.org/journals/editorial/13/Source-Journal-of-Bioremediation>)

* **Member, Editorial Board, Virology & Immunology Journal**

**(**<https://medwinpublishers.com/VIJ/editorial-board.php>**)**

* **Member, Editorial Board, Vaccines & Vaccination Open Access (VVOA)**

(<http://medwinpublishers.com/VVOA/editorial-board.php>)

**7. PROFESSIONAL SOCIETY AFFILIATIONS**

* **Life Member,** Bioinformatics Institute of India, Sector-19, Noida
* **Life Member,** Mushroom Society of India, N. R. C. M., Chambaghat, Solan.
* **Life Member,** Bioenergy Society of India, I.I.T., New Delhi.
* **Life Member,** Indian Science Congress Association, Kolkata.
* **Life Member,** Academy of Environmental Biology, Lucknow.
* **Life Member,** Society for Educational Research & Application, Deputy Dhara, PauriGarhwal.

**8. CONFERENCES/SEMINARS/WORKSHOP/TRAINING ETC.**

**Organized**

* **Mushroom training programm** at the Centre of Biotechnology, University of Allahabad, Prayagraj on 28th January 2020.
* **Workshop cum training programme for farmers** for Mushroom Production at the Centre of Biotechnology, University of Allahabad, Prayagraj on 31st January 2019.
* “**Hands on Workshop in Stem Cell Biology Technique**” during 1st – 8th September 2016 at Centre of Biotechnology, University of Allahabad, Allahabad – 211002.
* “**Hands on Training in Molecular Biology and Genetic Engineering**” during 20-27 May, 2016 at Centre of Biotechnology, University of Allahabad, Allahabad – 211002
* “**Biokumbh - 2016**” A National Conference on Recent Trends and Advances in Biotechnology, during 20-21 February, 2016 at NASI, Allahabad.
* National Conference on **“Frontiers in Biological Sciences”** sponsored by University Grants Commission, New Delhi, at VBS Purvanchal University, Jaunpur from December 4-5, 2011.
* First **workshop cum training programme for farmers** at Mushroom Production Training and Research Centre, VBS Purvanchal University, Jaunpur from November 27-28, 2012.
* Second **workshop cum training programme for farmers**at Mushroom Production Training and Research Centre, VBS Purvanchal University, Jaunpur from December 28-29, 2012.
* Third **workshop cum training programme for farmers**at Mushroom Production Training and Research Centre, VBS Purvanchal University, Jaunpur from February 1-2, 2013.

**Participated**

* In about 50 seminars, symposium etc.
* Two orientation and two refresher courses

**9. Academic Responsibilities**

* **Chairperson**, Programme Committee in Bioinformatics, University of Allahabad since March 2017.
* **Convener**, Doctoral Programme Committee in Bioinformatics, University ofAllahabad since March 2017.
* Special Invitee**, Academic Council**, University of Allahabad since March 2017.
* **Member, IQAC** (Internal Quality Assurance Cell)**,** University of Allahabad since 2016-2019.
* Member**, Academic Council**, MGG University, Chitrakoot, 2013 –2016.
* **Convener**, Academic Programme Committee in Biotechnology, Allahabad University 2014– 2016.
* **Convener**, Doctoral Programme Committee in Biotechnology, Allahabad University 2014 – 2016.
* Member**, Academic Council**, VBS Purvanchal University, Jaunpur 2008-2013
* **Convener, Board of Studies** in Biotechnology, VBS Purvanchal University, Jaunpur 2011-2013
* **Convener,** RDC (Research Degree Committee)in Biotechnology, VBS Purvanchal University, Jaunpur2011-2013.
* **Convener,** Board of Studies in Environmental, VBS Purvanchal University, Jaunpur 2008-2011.
* **External expert**, Board of Courses and Studies in Botany, Jai Prakash University, Chapra – 841301 since 2015.
* Member, Board of Studies in Biotechnology, Applied Microbiology and Applied Biochemistry, VBS Purvanchal University, Jaunpur, 2000-2013.
* Member, RDC in Biotechnology, VBS Purvanchal University, Jaunpur 2002-2013
* Subject expert to select Lecturers, Associate Professor and Professor in Biotechnology in colleges and University.
* Academic Secretary, Panjab University Botanical Society during 1984-85.
* Member, selection committee to select Principal in college.

**12. ADMINISTRATIVE RESPONSIBILITIES**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.N.** | **Position** | **Institution** | **From** | **To** |
| 1. | **Coordinator** | Centre of Biotechnology, University of Allahabad, Allahabad | 19th Sept. 2018 | 27th Sept. 2020 |
| 2. | **Coordinator** | Centre of Bioinformatics, University of Allahabad, Allahabad | 7th Feb. 2017 | 10th July 2020 |
| 3. | **Nodal Officer** | University Industry Interface Cell (UIIC), University of Allahabad, Allahabad | 2014 | Continuing |
| 4. | **Purchase Officer** | University of Allahabad, Allahabad | 30th August 2017 | January 2018 |
| 5. | **Coordinator** | Centre of Biotechnology, University of Allahabad, Allahabad | 19th Sept. 2014 | 18th Sept. 2016 |
| 6. | **Head** | Department of Biotechnology, VBS Purvanchal University, Jaunpur. | 20 Aug. 2011 | 31stAug. 2013 |
| 7. | **Head** | Department of Environmental Science, VBS Purvanchal University, Jaunpur. | 22 Aug. 2008 | 14 Nov. 2011 |
| 8. | **Incharge Librarian** | Vivekanand Central Library, VBS Purvanchal University, Jaunpur, | 24 Feb. 2010 | 31 July 2013 |
| 9. | **Coordinator** | Mushroom Production Training and Research Centre, VBS Purvanchal University, Jaunpur, | 2012 | 2013 |
| 10. | **Coordinator** | IQAC (Internal quality Assurance Cell), VBS Purvanchal University, Jaunpur | 2009 | 2011 |
| 11. | **Coordinator** | Career Counseling & Placement Cell, Department of Biotechnology, VBS Purvanchal University, Jaunpur | 2002 | 2013 |
| 12. | **Coordinator** | Technical Cell (for evaluation and preparation of results of semester examinations all campus courses), VBS Purvanchal University, Jaunpur | 2011 | 2012 |
| 13. | **Coordinator** | Anti-ragging Committee | 2009 | 2010 |
| 14. | **Proctor** | VBS Purvanchal University, Jaunpur | 2009 | 2010 |
| 15. | **Assistant Proctor** | VBS Purvanchal University, Jaunpur | 2002 | 2008 |
| 16. | **Assistant Proctor** | HNB Garhwal University, Pauri Garhwal | 1997 | 1999 |
| 17. | **Incharge**, CPMT-2007 control room | VBS Purvanchal University, Jaunpur | 2007 |  |
| 18. | **Centre Superintendent** | Semester Examination, VBS Purvanchal University Campus, Jaunpur | 2004 | 2005 |
| 19. | **Centre Superintendent** | B.Ed. Entrance Examination, VBS Purvanchal University, Jaunpur | 2007 | 2011 |
| 20. | **Incharge** | Horticulture, VBS Purvanchal University, Jaunpur | 2002 | 2008 |
| 21. | **Deputy Coordinator** | PUCAT – 2004 (Purvanchal University Combined Admission Test) | 2004 |  |
| 22. | **Deputy Coordinator** | Central Evaluation-2008, VBS Purvanchal University, Jaunpur | 2008 |  |
| 23. | **Coordinator** | For starting of seven new courses in VBS Purvanchal University, Jaunpur. | 2009 |  |

**13. ADDITIONAL RESPONSIBILITIES**

* **Member, Purchase Committee**, VBS Purvanchal University, Jaunpur 2003 - 2014.
* **Observer** to conduct Main Dental Examination-2008 at Dental College, Azamgarh from 26.05.2008 to 30.05.2008.
* **Member**, **Screening Committee**, VBS Purvanchal University, Jaunpur for the selection of Lecturers and Readers in 2004.
* **Subject expert,** Inspection Committee to inspect Colleges, for permanent affiliation of Biotechnology at UG level.
* **Deputy Election Officer** to conduct election of employee’s association of VBS Purvanchal University, Jaunpur in 2003.

**PUBLICATIONS**

**RESEARCH PAPERS:**

1. Mishra, V., Tomar, S., Yadav, P. and Singh, M.P. (2021) Promising anticancer activity of polysaccharides and other macromolecules derived from oyster mushroom (Pleurotus sp.): An updated review. *International Journal of Biological Macromolecules* 182:1628-1637.*.*  <https://doi.org/10.1016/j.ijbiomac.2021.05.102> (**IF 6.95**).
2. Rai, S.N., Mishra, D., Singh, P., Vamanue, E. and **Singh, M.P.\*** (2021) Therapeutic applications of mushrooms and their biomolecules along with a glimpse of *in silico* approach in neurodegenerative diseases. *Biomedicine & Pharmacotherapy* 137: 111377. <https://doi.org/10.1016/j.biopha.2021.111377> (**IF 6.52**).
3. Rai, S.N., Singh, P., Varshney, R., Chaturvedi, V.K., Vamanue, E., **Singh, M.P.\*** and Singh, B.K. (2021). Promising drug targets and associated therapeutic interventions in Parkinson’s disease. *Neural Regeneration Research* 16(9):1730-1739. <https://doi.org/10.4103/1673-5374.306066> (**IF 5.13**).
4. Tabassum, N., Kumar, D., Verma, D., Bohara, R.A. and **Singh, M.P.\*** (2021) Zirconium oxide (ZrO2) nanoparticles from antibacterial activity to cytotoxicity: A next-generation of multifunctional nanoparticles. Materials Today Communications 26:102156. <https://doi.org/10.1016/j.mtcomm.2021.102156> (**IF 3.36**).
5. Pandey, A.T., Pandey, I., Kanase, A., Verma, A., Canibano, B.G., Dakua, S., Balakrishnan, C. and **Singh, M.P.\*** (2021) Validating anti-infective activity of *Pleurotus opuntiae* via standardization of its bioactive mycoconstituents through multimodal biochemical approach. *Coatings* 11:484. <https://doi.org/10.3390/coatings11040484> (**IF 2.88**).
6. Singh, A.K., Rai, S.N., Maurya, A., Mishra, G., Awasthi, R., Shakya, A., Chellapan, D.K., Dua, K., Vamanu, E., Chaudhary, S.K. and **Singh, M.P.**\* (2021) Therapeutic Potential of Phytoconstituents in Management of Alzheimer’s Disease. *Evidence-Based Complementary and Alternative Medicine* 2021:1-19. <https://doi.org/10.1155/2021/5578574> (**IF 2.62**).
7. Mishra, D., Chaturvedi, A., Rashmi, M. and **Singh, M.P.**\* (2021) *In-silico* insights to identify the bioactive compounds of edible mushrooms as potential MMP9 inhibitor for Hepatitis-B. *Research Journal of Biotechnology* 16(2):116-126.
8. Pandey, A.T., Pandey, I., Kerkar, P. and **Singh, M.P.**\* (2021) Antimicrobial activity and mycochemical proile of methanol extract from *Pleurotus flabellatus*. *Vegetos* <https://doi.org/10.1007/s42535-021-00242-w>
9. Tabassum, N., Chaturvedi, V.K., Yadav, C.B., Singh, V. and **Singh, M.P.\*** (2021) *In vitro* cytotoxicity and antioxidant efficiency of synthesized mixed phase manganese oxide nanomaterial. *J. Exp. Zool. India* 24(1): 95-100. : <https://connectjournals.com/03895.2021.24.95>
10. Tabassum, N., Chaturvedi, V.K., Yadav, C.B., Singh, V. and **Singh, M.P.\*** (2021) *In vitro* cytotoxicity and antioxidant efficiency of synthesized mixed phase manganese oxide nanomaterial. *J. Exp. Zool. India* 24(1): 95-100. : <https://connectjournals.com/03895.2021.24.95>
11. Pandey, A.T., Pandey, I., Hachenberger, Y., Krause, B.C., Haider, R., Laux, P., Luch, A., **Singh, M.P.** and Singh, A.V. (2020). Emerging paradigm against global antimicrobial resistance via bioprospecting of mushroom into novel nanotherapeutics development. *Trends in Food Science & Technology.* <https://doi.org/10.1016/j.tifs.2020.10.025>(**IF 11.077**)
12. Rai, S.N., Singh, C., Singh, A., **Singh, M.P.** and Singh, B.K. (2020). Mitochondrial Dysfunction: a Potential Therapeutic Target to Treat Alzheimer’s disease. *Molecular Neurobiology* (https://doi.org/10.1007/s12035-020-01945-y) (**IF 4.5**)
13. Rai, S.N., Chaturvedi, V.K., Singh, B.K. and **Singh, M.P.** (2020). Commentary: Trem2 Deletion Reduces Late-Stage Amyloid Plaque Accumulation, Elevates the Ab42:Ab40 Ratio, and Exacerbates Axonal Dystrophy and Dendritic Spine Loss in the PS2APP Alzheimer’s Mouse Model. *Frontiers in Aging Neurosciences* 12:219 (doi: 10.3389/fnagi.2020.00219) (**IF 4.36**)
14. Chaturvedi, V.K., Yadav, N., Rai, N.K., Ellah, N.H.A., Bohara, R.A., Rehan, I.F., Marraiki, N., Baitha, G.L., Hetta, H.L. and **Singh, M.P.** (2020). *Pleurotus sajor-caju* Mediated Synthesis of Silver and Gold Nanoparticles Active against Colon Cancer Cell Lines: A New Era of Herbonanoceutics. *Molecules*, 25: 3091 (doi:10.3390/molecules25133091) **(IF 3.2**)
15. Chaturvedi, V.K., Rai, S.N., Tabbasum, N., Yadav, N., Singh, V., Bohara, R. and **Singh, M.P.** (2020) Two Birds with One Stone: Oyster mushroom mediated bimetallic Au-Pt nanoparticles for agro-waste management and anti-cancer activity. *Environmental Science and Pollution Research*. (<https://doi.org/10.1007/s11356-020-11435-2>) (**IF 3.056)**
16. Dubey, S., Yadav, C.B., Bajpeyee, A.K. and **Singh, M.P.** (2020). Effect of *Pleurotus fossulatus* Aqueous Extract on *Biochemical Properties of* Liver and Streptozotocin-Induced Diabetic Rat. *Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy* 13:3035-3046 ( <https://doi.org/10.2147/DMSO.S265798>). (**IF 2.84**)
17. Pandey, A.T., Pandey, I., Zamboni, P., Gemmati, D., Kanase, A., Singh, A.V. and **Singh, M.P.** (2020). Traditional Herbal Remedies with a Multifunctional Therapeutic Approach as an Implication in COVID-19 Associated Co-Infections. *Coatings*, 10:761 (doi:10.3390/coatings10080761). (**IF 2.4**)
18. Singh, N., Rai, S.N., Singh, V. and **Singh, M.P.** (2020) Molecular characterization, pathogen-host interaction pathway and in silico approaches for vaccine design against COVID-19. *Journal of Chemical Neuroanatomy*. <https://doi.org/10.1016/j.jchemneu.2020.101874> (**IF 2.353**)
19. Rai, S.N., Chaturvedi, V.K., Singh, P., Singh, P.K. and **Singh, M.P.** (2020) *Mucuna pruriens* in Parkinson’s and in some other diseases: recent advancement and future prospective. 3 Biotech 10:522 <https://doi.org/10.1007/s13205-020-02532-7> (**IF 1.798**)
20. Mishra, D., Mishra, A., Chaturvedi, V.K. and **Singh, M.P.** (2020). An overview of COVID19 with an emphasis on computational approach for its preventive intervention. *3 Biotech* 10:435 (<https://doi.org/10.1007/s13205-020-02425-9>) (**IF 1.798**)
21. Singh, V., **Singh, M.P.** and Mishra, V. (2020). Bioremediation of toxic metal ions from coal washery effluent. *Desalination and Water Treatment* 197:300-318 (doi: 10.5004/dwt.2020.25996) (**IF 1.32**)
22. Wankar, J.N., Chaturvedi, V.K., Rai, Bohara, C. **Singh, M.P.** and Bohara, R. (2020). Role of nanomedicine in management and prevention of COVID-19. *Frontiers in Nanotechnology* 2:589541. (doi: 10.3389/fnano.2020.589541)
23. Chaturvedi, V.K., Rai, S.N., Tabbasum, N., Yadav, N., Singh, V., Bohara, R. and **Singh, M.P.** (2020). Rapid eco-friendly synthesis, Characterisation, and Cytotoxic study of trimetallic stable Nano medicine: a potential material for biomedical applications. *Biochemistry and Biophysics Reports* 24: 100812 (<https://doi.org/10.1016/j.bbrep.2020.100812>)
24. Vaseem, H., Singh, V.K. and **Singh, M.P.** (2020). An ecofriendly approach to decontaminate toxic metals from coal washery effluent using the mushroom *Pleurotus ostreatus*. *SN Applied Sciences* 2:1588(<https://doi.org/10.1007/s42452-020-03376-9>)
25. Mishra, D., Chaturvedi, V.K., **Singh, M.P.,** Singh, P. and Rai, S.N. (2020). Effect of COVID19 Pandemic on the Vital Function of the Central Nervous System: A Literature-based Prospective. *EC Neurology* 12 (8): 163-168.
26. Chaturvedi, V.K., Mishra, D., **Singh, M.P**., Singh, P. and Rai, S.N. (2020). Mobile Phone and Mental Health: Iron Cut the Iron. *EC Neurology* 12 (9): 50-60.
27. Dubey, S.K., Bajpeyee, A.K., Yadav, C.V. and **Singh, M.P.** (2020). A comparative *in-vitro* study on antidiabetic properties of cultivated *pleurotus* mushrooms. *J. Exp. Zool. India,* 23 (2): 1915-1918.
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