



Dr. Tapan Kumar Mohanta

Research Assistant Professor

Biotech and Omics.....

مركز أبحاث العلوم الطبيعية والطبية

جامعة نزوى، سلطنة عمان

هاتف: +968 96879405046 (Ext: 724)

البريد الإلكتروني: tapan.mohanta@unizwa.edu.om

موقع المكتب: B-25.....

يعمل في الجامعة: منذ 2018

الحالة الاجتماعية:

Reported the anti-codon table of the chloroplast genome (Under Review).
<https://www.biorxiv.org/content/10.1101/2022.04.24.489293v1.full> 2

المؤهلات الأكاديمية

PhD (University of Turin, Italy), 2011

MS Bioinformatics (University of Turin, Italy), 2007

M.Sc. Biotechnology (North Orissa University), 2006

أنشطة التدريس

Bacteriology, Spring 2021

Metabolic Engineering, 2016

Advanced metabolic engineering, 2017

الأنشطة البحثية

الاهتمامات البحثية -

tRNA, Genomics, Proteomics & Plant Molecular Biology

Construction of virtual 2-D proteome map of plant, fungi, plastome, and bacteria

Functional analysis of quadruplet anti-codons

المشورات -

مقال:

- [Biswas K, Mishra AK, Rauta PR, Al-Sehemi AG, Pannipara M, Sett A, Bratovcic A, Avula SK, 2022 .1](#)
[Tapan Kumar Mohanta, Saravanan M, Mohanta YK. \(2022\). Exploring the bioactive potential of C60-AgNPs nanocomposites against malignancies and microbial infections. International Journal of Molecular Sciences, 22 \(2\): 714. IF 6.208](#)
- [Mustafa F, Chopra H, Baig AM, Avula SK, Kumari S, Tapan Kumar Mohanta, Saravanan M, 2022 .2](#)
[Mishra A, Sharma N, Mohanta YK. \(2022\). Edible mushrooms as novel myco-therapeutics: effect on lipid level, obesity, and BMI. Journal of Fungi, 8: 211. IF 5.724](#)
- [YK Mohanta, Mishra AK, Nayak D, Patra B, Bratovcic A, Avula SK, Tapan Kumar Mohanta, 2022 .3](#)
[Saravanan M, Murugan K. \(2022\). Exploring dose dependent cytotoxic profile of Gracilaria edulis mediated green synthesized silver nanoparticles against MDA-MB-231 breast carcinoma. Oxidative Medicine and Cellular Longevity, 2022: 3863138. IF 7.31](#)
- [Madhanvan Y, Shanmugan DK, Sai KV, Manimaran A, Guruviah K, Mohanta YK, Venugopal 2022 .4](#)
[DC, Tapan Kumar Mohanta*, Sharma N, Muthupandian S. \(2022\). Current treatment options for COVID-19 associated Mucormycosis: present status and future perspectives. Journal of Clinical Medicine, 11\(13\): 3620. IF 4.964](#)
- [S. Mahanta, T Naiya, K Biswas, L Chnagkakoti, YK Mohanta, B Tanti, AK Mishra, Tapan 2022 .5](#)
[Kumar Mohanta*, N Sharma. \(2022\). Plant Source Derived Compound Exhibited In Silico Inhibition of Membrane Glycoprotein In SARS-CoV-2: Paving The Way To Discover a New Class of Compound For Treatment of Covid-19. Frontiers in Pharmacology, 13: 805344. IF 5.988](#)
- [Chakraborty I, Mohanta YK, Nogbet A, Tapan Kumar Mohanta*, Mohanta S, Das N, 2022 .6](#)
[Saravanan M, Sharma N. \(2022\). Exploration of lamiaceae in cardiovascular disease and functional foods: Medicine as food and food as medicine. Frontiers in Pharmacology, 13: 894814. IF 5.988](#)
- [Kumari S, Gogoi SS, Shamim MZ, Laskar I, Tapan Kumar Mohanta*, Suprasanna P, 2022 .7](#)
[Mohanta YK. \(2022\). Physicochemical characterization, antioxidant, activity, and total phenolic content of value-added products from indigenous banana varieties of Assam, India. Measurement: Food, 7: 100040. IF 3.927](#)
- [Pandey VK, Prajapati GK, Tapan Kumar Mohanta, Mishra AK. \(2022\). N-glycosylation, a 2022 .8](#)
[leading role in viral infection and immunity development. Molecular Biology Reports, 49: 8109-8120. IF 2.702](#)
- [Kumar H, Aggarwal A, Marwaha MG, Deep A, Chopra H, Matin MM, Roy A, Emran TB, 2022 .9](#)
[Mohanta YK, Tapan Kumar Mohanta, Ahmed R, Muthupandian S, Kumar R. \(2022\). Thiazolidin 2,4-dione scaffold: an insight into recent advances as antimicrobial, antioxidant, hypoglycemic agents, mechanism of action, and patent granted. Molecules, 27\(12\): 6763 IF 4.927](#)
- [Mohanta YK, Nayak D, Mishra AK, Chakraborty I, Ray MK, Tapan Kumar Mohanta, 2022 .10](#)
[Tayung K, Rajaganesh R, Vasanthakumaran M, Muthupandian S, Murugan K, Sharma G, Dahms H-U, Hwang J-S. \(2022\) Green synthesis of endolichenic fungi functionalized silver nanoparticles: the role in antimicrobial, ant-cancer, and mosquitocidal activities. International Journal of Molecular Sciences, 23: 10626. IF: 6.208](#)
- [Boddu SK, Rehman NU, Tapan Kumar Mohanta, Majhi A, Avula SK, Al-Harrasi A. \(2022\). A 2022 .11](#)
[review on DBU mediated organic transformation. Green Chemistry Letters and Reviews, 15\(3\):](#)

- [Tapan Kumar Mohanta*, Kamran MS, Omar M, Anwar W, Choi GS. \(2022\). PlantMWpIDB: 2022 .12 A database for the Molecular Weights and Isoelectric Point of the Plant Proteomes. Scientific Reports, 12: 7421. IF 4.996](#)
- [Vij S, Sharma N, Sharma M, Tapan Kumar Mohanta, Kaushik P. \(2022\). Application of 2022 .13 Trichoderma viride and Pseudomonas fluorescens to cabbage \(Brassica oleracea L.\) improves both its seedling quality and field performance. Sustainability, 14\(13\): 7583. IF 3.889](#)
- [Tapan Kumar Mohanta*, Mohanta YK, Avula SK, Nongbet A, Harrasi A. \(2022\). Virtual 2D 2022 .14 map of cyanobacterial proteomes. PLoS One, 17\(10\): e0275148. IF: 3.752](#)
- [Navgire GS, Goel N, Sawhney G, Sharma M, Kaushik P, Mohanta YK, Tapan Kumar 2022 .15 Mohanta*, Harrasi A. \(2022\). Analysis and interpretation of metagenomic data: An approach. Biological Procedures Online, 24:18. IF: 7.717](#)
- [Rashid M, Omar M, Tapan Kumar Mohanta*. \(2022\). FungiProteomeDB: a database for 2022 .16 the molecular weight and isoelectric points of the fungal proteomes. Database:xx. IF 4.462](#)
- [apan Kumar Mohanta*, Mohanta YK, Harrasi A. \(2022\). Decoding the virtual 2D map of 2022 .17 the chloroplast proteomes. Biological Procedures Online, 24: xx. IF 7.717](#)
- [Hitesh Chopra, Awdhesh Kumar Mishra, Atif Amin Baig, Tapan Kumar Mohanta, Yugal 2021 .18 Kishore Mohanta, Kwang-Hyun Baek. \(2021\). Narrative Review: Bioactive Potential of Various Mushrooms as the treasure of versatile therapeutic natural product. Journal of Fungi, 7\(9\): 728](#)
- [Tapan Kumar Mohanta*, Awdhesh Kumar Mishra, A Al-Harrasi. \(2021\). The 3D Genome: 2021 .19 From Structure to Function. International Journal of Molecular Sciences, 2021, 22\(21\): 11585](#)
- [Tapan Kumar Mohanta*, Awdhesh Kumar Mishra, Yuga Kishore Mohanta, Ahmed Al- 2021 .20 Harrasi. \(2021\). Virtual 2D Mapping Of The Viral Protein Reveals Host-Specific Modality Distribution Of Molecular Weight And Isoelectric Point. Scientific Reports, 11: 21291](#)
- [Yugal Kishore Mohanta, Pradipta Ranjan Rauta, Awdhesh Kumar Mishra, Debasish De, 2021 .21 Abeer Hashem, Al-Bandari Fahad Al-Arjani, Abdulaziz A. Alqarawi, Elsayed Fathi Abd_Allah, Saurov Mahanta & Tapan Kumar Mohanta. \(2021\). Development of graphene oxide nanosheets as potential biomaterials in cancer therapeutics: an in-vitro study against breast cancer cell line. Journal of Inorganic and Organometallic Polymers and Materials, 31](#)
- [Tapan Kumar Mohanta*, Mishra AK, Khan A, Hashem A, Abd_Allah EF, Harrasi A. \(2021\). 2021 .22 .Virtual 2-D map of the fungal proteome. Scientific Reports, 11: 6676](#)
- [Tapan Kumar Mohanta, YK Mohanta. \(2020\). Corona virus \(Covid19\) genome: Genomic 2020 .23 and biochemical analysis revealed its possible synthetic origin. Journal of Applied Biotechnology and Bioengineering, 7\(5\): 200-213](#)
- [Tapan Kumar Mohanta*, Pietro Ariana, Nanaocha Sharma, Paola Defilippi. Role of 2020 .24 Azithromycin in Antiviral Treatment: Enhancement of Interferon-Dependent Antiviral Pathways and Mitigation of Inflammation May Rely on Inhibition of the MAPK Cascade? Am. J. Trans Res. .12\(12\): 7702-7708](#)
- [Tapan Kumar Mohanta*, Nanaocha Sharma, Pietro Ariana, Paola Defilippi. Molecular 2020 .25 insight on MAPK cascade in viral infection: a potential cross-talk with HCO and HCOs analogues. .Biomed Research International, Vol. 2020: 8827752](#)
- [Tapan Kumar Mohanta*, Mishra AK, Hashem A, Abd_Allah EF, Khan AL, Harrasi A. \(2020\). 2020 .26 Construction of anti-codon table of the plant kingdom and evolution of tRNA selenocysteine .\(tRNASec\). BMC Genomics, 21: 804](#)
- [Pandey B, Tyagi C, Prajapati GK, Mishra AK, Hashem A, Alqarawi AA, Abd_Allah EF, 2020 .27 Tapan Kumar Mohanta*. \(2020\). Analysis of mutations of defensin protein using accelerated](#)

[.molecular dynamics simulations. PLoS One 15\(11\): e0241679](#)

[Tapan Kumar Mohanta*, Mohanta YK, Yadav D, Hashem A, Abd_Allah EF, Al-Harrasi A. 2020 .28 \(2020\). Global trends in phytohormone research: Google trend analysis revealed African countries .have higher demand for phytohormone information. Plants, 9\(9\): 1248](#)

[Tapan Kumar Mohanta*, Mishra AK, Khan A, Hashem A, Abd_Allah EF, Al-Harrasi A. 2020 .29 .\(2020\). Gene loss and evolution of the plastome. Genes 11\(10\):1133](#)

[Biswas K, Mohanta YK, Kumar VB, Hashem A, Abd_Allah EF, Mohanta DD, Tapan Kumar Mohanta*. \(2020\) Nutritional assessment study and role of green silver nanoparticle in self life of coconut endosperm to develop as functional food. Saudi Journal of Biological Sciences, 27\(5\): .1280-1288](#)

[Mohanta YK, Biswas K, Jena SK, Hasheem A, Abd_Allah EF, Tapan Kumar Mohanta*. 2020 .31 \(2020\). Anti-biofilm and antibacterial activities of silver nanoparticles synthesized by the reducing .activities of phytoconstituents present in the medicinal plants. Frontiers in Microbiology, 11.1143](#)

[Mohanta, YK; Hashem, A; Abd_Allah, EF; Jena, SK; Tapan Kumar Mohanta*. \(2020\). 2020 .32 Bacterial synthesized metal and metal salt nanoparticles in biomedical applications: An up and coming approach. Applied Organometallic Chemistry, 34\(9\): e5810](#)

[Prabhuling S, Tamboli Y, Chaudhary PB, Bhatia MS, Tapan Kumar Mohanta*, Al-Harrasi A, 2020 .33 Pudukulatham, ZK. \(2020\). Synthesis and modeling studies of furoxan coupled spiro-isoquinolino .pepridine derivatives as NO releasing PDE5 inhibitors. Biomedicines, 8: 121](#)

[Tapan Kumar Mohanta*, Awdhesh Mishra, Elsayed Fathi Abd_Allah, Abeer Hashem, 2020 .34 Ahmed Al-Harrasi. \(2020\). Genome-wide analysis revealed novel molecular features and evolution .of anti-codons in cyanobacterial tRNA. Saudi Journal of Biological Sciences, 27\(5\): 1195-1200](#)

[Khan AL, Asaf S, Abed RM, Chai YN, Al-Rawahi AN, Tapan Kumar Mohanta, Al-Rawahi A, 2020 .35 Schachtman DP, Al-Harrasi A. \(2020\). Rhizosphere microbiome of arid land medicinal plants and .extracellular enzymes contribute to their abundance. Microorganisms, 8\(2\), 213](#)

[Tapan Kumar Mohanta*. \(2020\). Fungi contain genes associated with flavonoid 2020 .36 .biosynthesis pathway. Journal of Functional Foods, 68: 103910](#)

[Tapan Kumar Mohanta*, Yadav D, Khan A, Hasheem A, Tabassum B, Khan AL, Abd_Allah 2020 .37 EF, Harrasi A. \(2020\). Genomic, molecular, and evolutionary perspective of NAC transcription .factors. PLoS One, 15\(4\): e0231425](#)

[Khan A, Bilal S, Khan AL, Imran M, Asaf S, Al-Harrasi A, Al-Rawahi A, Al-Azhri M, Tapan 2020 .38 Kumar Mohanta, Lee JJ. \(2020\). Silicon and gibberellins: synergistic function in harnessing ABA .signaling and heat stress tolerance in date palm \(Phoenix dactylifera\). Plants, 9\(5\): 620](#)

[Kim H, Tapan Kumar Mohanta, Park YH, Park SC, Shanmugam G, Park JS, Jeon J, Bae H. 2020 .39 \(2020\). Complete genome sequence of mountain-cultivated ginseng endophyte Burkholderia .stabilis and its antimicrobial compounds against ginseng root rot disease. Biological .Control,140\(1\): 104126](#)

[Mohanta S, Singdevsachan S, Mohanta YK, Panda S, Tapan Kumar Mohanta. \(2019\). An 2019 .40 overview of mycogenic nanoparticles: synthesis and their bio-prospective application. Chapter 7, page 87-97. Nanotechnology in Biology & Medicine: Research Advancements and Future \(perspectives \(ISBN 9780367200503\), CRC Press \(Taylor & Francis group](#)

[YK Mohanta, Tapan Kumar Mohanta, Debasis Nayak. \(2019\). Recent developments on 2019 .41 nanotechnology in agriculture: challenges and prospects. Chapter 6, page: 79-86. Nanotechnology in Biology & Medicine: Research Advancements and Future perspectives \(ISBN .\(9780367200503\), CRC Press \(Taylor & Francis group](#)

[Tapan Kumar Mohanta*, Dhananjay Yadav. \(2019\). Cloning and characterization and 2019 .42 auxin efflux carrier genes EcPIN1c and EcPIN1d from finger millet Eleusine coracana subsp.](#)

- [.coracana. Journal of animal and plant sciences, 28\(6\): 232-244](#)
- [Pudake RN, Mittal J, Tripathi RM, Tyagi J, Mohanta TK. \(2019\). Biochemical responses of 2019 .43
maize seedlings exposed to SnNPS. *Micro & Nano Letters*, 14\(6\): 645-649](#)
- [Amjad Ali, Tapan Kumar Mohanta*, Asaf S, Rehman N, Al-Housni S, Al-Harrasi A, Khan 2019 .44
AL, Al-Rawahi A. Biotransformation of benzoin by *Sphingomonas* sp. LK11 and ameliorative effects
on growth of *Cucumis sativus*. *Archives of Microbiology*, 201\(5\): 591-601](#)
- [Tapan Kumar Mohanta*, AL Khan, A Hashem, EF Abd_Allah, D Yadav, A Al-Harrasi. 2019 .45
\(2019\). Genomic and evolutionary aspects of chloroplast tRNA in monocot plants. *BMC Plant
Biology*. 19: 39](#)
- [Tapan Kumar Mohanta*, Yadav D, Khan AL, Hashem A, Abd_Allah EF, Harrasi A. \(2019\). 2019 .46
Molecular players of EF-hand containing calcium signaling event in plants. *Int. J. Mol. Sci.* 19,
1476](#)
- [Tapan Kumar Mohanta*, Yadav D, Khan AL, Hasheem A, Abda_Allah EF, Al-Harrasi A. 2019 .47
\(2019\). Analysis of genomic tRNA reveal presence of novel genomic features in cyanobacterial
tRNA. *Saudi Journal of Biological Sciences*, 27\(1\): 124-133](#)
- [Tapan Kumar Mohanta*, AL Khan, A Hashem, EF Abd_Allah, A Al-Harrasi \(2019\). 2019 .48
Molecular mass and isoelectric point of plant proteomes. *BMC Genomics*, 20: 631](#)
- [Tapan Kumar Mohanta*. \(2018\). Sound wave in plant growth regulation: A review of 2018 .49
potential biotechnological applications. *Journal of animal and plant sciences*, 28\(1\): 1-9](#)
- [Mohanta, YK, Biswas K, Bandyopadhyay J, Tamang A, De D, Mohanta D, Panda S, 2018 .50
Jayabalan R, Mohanta TK*, Bastia AK. \(2018\). Abuliton indicum \(L.\) sweet leaf extracts assisted
bio-inspired synthesis of electronically charged silver nano-particles with potential antimicrobial,
antioxidant and cytotoxic properties. *Material Focus* 7, 94-100](#)
- [Yugal Kishore Mohanta, Sameer Sighdevsachan, Sujogya Panda, Sayed Asad, Hasan F, 2018 .51
Bastia A, Tapan Kumar Mohanta*. \(2018\). Bio-inspired synthesis of silver nano-particles from leaf
extracts of *Cleistanthus collinus* \(Roxb.\): Its potential antibacterial and anticancer activity. *IET
Nanobiotechnology*, 12\(3\): 343-348](#)
- [Tapan Kumar Mohanta*, Tufail Bashir, Abeer Hashem, EF Abd_Allah, AL Khan, AS Al- 2018 .52
Harrasi \(2018\). Molecular players of auxin transport systems: Advances in genomic and molecular
events. *J. Plant Interactions*, 13: 483-495](#)
- [Tapan Kumar Mohanta*, Tufail Bashir, Abeer Hashem, Elsayed Fathi Abd_Allah, Abdul 2018 .53
Latif Khan, Ahmed Suleiman Al-Harrasi. \(2018\). Early events in plant abiotic stress signaling:
interplay between calcium, reactive oxygen species and phytohormones. *Journal of Plant Growth
Regulation*, 37\(4\): 1033-1049](#)
- [YK Mohanta, D Nayak, K Biswas, SK Singhdevsachan, EF Abdallah, A Hashem, AA 2018 .54
Alqarawi, D Yadav, Tapan Kumar Mohanta*. \(2018\). Silver nanoparticles synthesized using wild
mushroom show potential antimicrobial activities against food borne pathogens. *Molecules* 23\(3\):
655](#)
- [M Mishra, AP Arukha, AK Patel, N Behera, Tapan Kumar Mohanta, D Yadav*. \(2018\). 2018 .55
Multi-drug resistant coliform: water sanitary standard and health hazards. *Frontiers in
Pharmacology*, 9: 311](#)
- [Tufail Bashir, R Mishra, M Hasan, Tapan Kumar Mohanta, H Bae. \(2018\). Effect of 2018 .56
hybridization on somatic mutation and genomic rearrangements in plants. *Int. J. Mol. Sci.* 19,
3758](#)
- [Pratap Parida, RN Yadav, B Dehury, D Ghosh, N Mohapatra, A Mitra, Tapan Kumar 2017 .57
Mohanta*. \(2017\). Novel insight into the molecular interactions of a Panduratin A derivative with
the non-structural protein \(NS3\) of dengue serotype: A molecular dynamic study. *Current*](#)

- [Yugal Kishore Mohanta, Kunal Biswas, Sujogya Panda, Jaya Bandyopadhyay, Debashis De, Rasu Jayabalan, Akshaya Bastia, Tapan Kumar Mohanta*. \(2017\). Phyto-assisted synthesis of bio functionalize silver nanoparticles and their potential antioxidant, antimicrobial and wound healing activities. IET Nanobiotechnology, 11\(8\): 1027-1034](#) 2017 .58
- [Tapan Kumar Mohanta*, Hanhong Bae. \(2017\). Cloning and characterization of auxin efflux carrier genes EcPIN1a and EcPIN1b from finger millet Eleusine coracana L. 3 Biotech, 7: 51](#) 2017 .59
- [Ramesh N Pudake, Chandra Mohan Mehta, Tapan Kumar Mohanta, Suvigya Sharma, Ajit Varma, Anil K Sharma. \(2017\). Expression of four phosphate transporter genes from finger millet \(Eleusine coracana L.\) in response to mycorrhizal colonization and Pi stress. 3 Biotech, 7: 17](#) 2017 .60
- [Tapan Kumar Mohanta*, Ramesh N Pudake, Hanhong Bae. \(2017\). Genome-wide Identification of Major Protein Families of Cyanobacteria and Genomic Insight into the Circadian Rhythm. European Journal of Phycology, 52: 149-165](#) 2017 .61
- [Tapan Kumar Mohanta*, Tufail Bashir, Hashem Abeer, Elsayed Fathi Abd_Allah. \(2017\). Systems biology approach in plant abiotic stresses. Plant Physiology and Biochemistry, 121: 58-73](#) 2017 .62
- [Yugal K Mohanta, Sujogya K Panda, Akshaya K Bastia, Tapan K Mohanta*. \(2017\). Biosynthesis of silver nanoparticles from Protium serratum and investigation of their potential impact on food safety and control. Frontiers in Microbiology, 8: 626](#) 2017 .63
- [Yugal K Mohanta, Sujogya K Panda, Rasu Jayabalan, Nanaocha Sharma, Akshaya K Bastia, Tapan Kumar Mohanta*. \(2017\). Antimicrobial, antioxidant and cytotoxic activity of silver nanoparticles synthesized by leaf extract of Erythrina suberosa \(Roxb.\). Frontiers Mol. Bioscience, 4:14](#) 2017 .64
- [Tapan Kumar Mohanta*, Pradeep Kumar, Hanhong Bae. \(2017\). Genomics and evolutionary aspects of calcium signaling event in calmodulin and calmodulin-like proteins. BMC Plant Biology, 17: 38](#) 2017 .65
- [Tapan Kumar Mohanta*, Hanhong Bae. \(2017\). Analyses of genomic tRNA reveal presence of novel tRNAs in Oryza sativa. Frontiers Genetics, 8:90](#) 2017 .66
- [Tapan Kumar Mohanta*, Asad Saghir Syed, Fuad Ameen, Hanhong Bae. \(2017\). Novel genomic and evolutionary perspective of cyanobacterial tRNAs. Frontiers in Genetics, 8: 200](#) 2017 .67
- [Tapan Kumar Mohanta*, Tufail Bashir, Abeer Hashem, Elsayed Fathi Abd_Allah, Hanhong Bae. \(2017\). Genome editing tools in plants. Genes, 8:399](#) 2017 .68
- [Tapan Kumar Mohanta, Alok Krishna Sinha. \(2016\). Role of calcium dependent protein kinase during abiotic stress tolerance. Abiotic Stress Response in Plants, In Tuteja N, Gill SS, Tuteja R \(eds\), Wiley-Blackwell, Germany, Chapter 9: 185-207](#) 2016 .69
- [Partha Sarathi Bairy, Aparoop Das, Lalit Mohan Nainwal, Tapan Kumar Mohanta*, Mukesh Kumar Kumawat, Pradyumna Kishore Mohapatra, Pratap Parida. \(2016\). Design, synthesis and antidiabetic activity of some novel xanthone derivatives targeting alpha glucosidase. Bangladesh J. Pharmacology, 11: 308-318](#) 2016 .70
- [Soo-Jung Bae, Tapan Kumar Mohanta, Minji Ryu, Gweekyo Park, Sanghee Shim, Seung-Beom Hong, Sung Hong Kim, Hyeun-Jong Bae, Dong-Won Bae, Hanhong Bae. \(2016\). Trichoderma metabolites as biological control agents against Phytophthora pathogen. Biological Control, 92\(2016\):128-138](#) 2016 .71
- [Chandra Mohan Mehta, Kajol Srivastava, Tapan Kumar Mohanta, Anil K Sharma. \(2016\). Phosphate transporter based genetic diversity of Eleusine coracana. Walailak Journal of Science and Technology, 13\(3\): 157-164](#) 2016 .72
- [Yugal Kishore Mohanta, Sameer Kumar Singdevsachan, Umesh Kumar Parida, Sujagya](#) 2016 .73

- [Kumar Panda, Tapan Kumar Mohanta*, Hanhong Bae. \(2016\). Green synthesis and anti-microbial activity of silver nanoparticles using wild medicinal mushroom *Ganoderma applanatum* \(Pers.\) .Pat. From Similipal Biosphere Reserve, Odisha, India. IET Nanobiotechnology, 10: 184-189](#)
- [Sujogya Kumar panda, Yugal Kishore Mohanta, Laxmipriya Padhi, Young-Hwan Park, 2016 .74 Tapan Kumar Mohanta*, Hanhong Bae. \(2016\). Large scale screening of Ethnomedicinal plants for .identification of potential antibacterial compounds. Molecules, 21\(3\): 293](#)
- [Tapan Kumar Mohanta*, Nibedita Mohanta, Pratap Parida, Sujogya Kumar Panda, 2016 .75 Lakshmi N Ponpandian, Hanhong Bae. \(2016\). Genome-wide identification of mitogen activated protein kinase gene family across fungal lineage shows presence of novel and diverse activation .loop motifs. PLoS One, 11\(2\): e0149861](#)
- [Tapan Kumar Mohanta*, Young-Hwan Park, Hanhong Bae. \(2016\). Novel genomic and 2016 .76 .evolutionary insight of WRKY transcription factors in plant lineage. Scientific Reports, 6: 37309](#)
- [Pradeep Kumar, Dipendra Kumar Mahato, Madhu Kamle, Tapan Kumar Mohanta*, Kang 2016 .77 Sang Gu. \(2016\). Aflatoxins: A global concern of food safety, human health and their .management. Frontiers in Microbiology, 7: 2170](#)
- [Tapan Kumar Mohanta*, Mohanta YK, Yasin Ali Tamboli, Mohanta N. \(2015\). Medicinal 2015 .78 and Antimicrobial Activity of Living Fossil Plant *Ginkgo biloba*. Recent Advance in Natural Product \(ISBN: 1-62699-060-3\), Studium Press USA, Chapter 3: 35-42](#)
- [Tapan Kumar Mohanta*, Mohanta YK, Mohanta N. \(2015\). Role of Biotechnology in 2015 .79 bioremediation. Uncovering new methods for ecosystem management through bioremediation \(ISBN: 9781466686823\), Chapter 16: 399-432. IGI Global, USA](#)
- [Tapan Kumar Mohanta*, Hanhong Bae. \(2015\). Functional Genomics and Signaling 2015 .80 .Events in Mycorrhizal Symbiosis. Journal of Plant Interactions, 10: 21-40](#)
- [Ritesh Ghosh, Bosung Choi, Jonnggeun Kim, Tapan Kumar Mohanta*, Mi-Jeong Jeong, 2015 .81 Sang Un Park, and Hanhong Bae. \(2015\). Developmental and Stress Mediated Expression analysis of Cinnamoyl-CoA Reductase 1 \(CCR1\) From *Hibiscus cannabinus*. Journal of Plant Interactions, 10: .158-166](#)
- [Tapan Kumar Mohanta*, Hanhong Bae. \(2015\). The diversity of Fungal genome. 2015 .82 .Biological Procedures Online, 17: 8](#)
- [Tapan Kumar Mohanta*, Nibedita Mohanta, Pratap Parida, Hanhong Bae. \(2015\). 2015 .83 Mitogen activated protein kinase \(MAPK\) interacts with auxin influx carrier \(*OsAux/LAX1*\) involved .in auxin signaling in plant. Biological Procedures Online, 17:13](#)
- [Tapan Kumar Mohanta*, Nibedita Mohanta, Hanhong Bae. \(2015\). Identification and 2015 .84 Expression analysis of PIN-like \(PILS\) gene family of rice treated with auxin and cytokinin. Genes, .6: 622-640](#)
- [Mayank Anand Gururani, Tapan Kumar Mohanta, Hanhong Bae \(2015\). Current 2015 .85 understanding of the interplay between phytohormones and photosynthesis under environmental .stress. International J. of Mol. Sciences, 16: 19055-19085](#)
- [Tapan Kumar Mohanta*, Pankaj Kumar Arora, Nibedita Mohanta, Pratap Parida, Hanhong 2015 .86 Bae. \(2015\). Identification of New Members of The MAPK Gene Family in Plants Shows diverse .conserved domains and novel activation loop variants. BMC Genomics, 16:58](#)
- [Tapan Kumar Mohanta*, Nibedita Mohanta, Yugal Kishore Mohanta, Pratap Parida, 2015 .87 Hanhong Bae. \(2015\). Genome-wide identification of calcineurin B-like \(CBL\) gene family in plants .reveals presence of novel motifs and evolutionary aspects. BMC Plant Biology, 15:189](#)
- [Pallavi Singh, Tapan Kumar Mohanta, Alok K Sinha. \(2015\). Unraveling the Intricate 2015 .88 nexus of molecular mechanisms governing rice root development: *OsMPK3/6* and Auxin-cytokinin .interplay. PLoS One, 10\(4\): e0123620](#)

- [Tapan Kumar Mohanta*, Nibedita Mohanta, Yugal Kishore Mohanta, Hanhong Bae. \(2015\). Genome-wide identification of calcium-dependent protein kinase gene family in plant lineage shows presence of novel D-x-D and D-E-L motif in EF-hand domain. *Frontiers in Plant Science*, 6: 1146](#) .89
- [Tapan Kumar Mohanta*, Malnoy M, Mohanta N, Kanchiswamy CN. \(2014\). In-silico identification and phylogenetic analysis of auxin efflux carrier gene family in *Setaria italica* L. *African Journal of Biotechnology*, 13\(2\): 211-225](#) 2014 .90
- [Tapan Kumar Mohanta*, Malnoy M, Mohanta N, Kanchiswamy CN. \(2014\). In-silico identification and phylogenetic analysis of auxin efflux carrier gene family in *Setaria italica* L. *African Journal of Biotechnology*, 13\(2\): 211-225](#) 2014 .91
- [Tapan Kumar Mohanta, Tamboli Y, Zubaidha PK. \(2014\). Phytochemical and medicinal importance of *Ginkgo biloba* L. *J. Natural Product Research*, 28\(10\): 746-752](#) 2014 .92
- [Pankaj Kumar Arora, Tapan Kumar Mohanta, Alok Srivastav, Vijay Pal Singh and Hanhong Bae. \(2014\). Metabolic pathway of degradation of 2-chloro-4-amino phenols for *Arthrobacter* sp. SPG. *Microbial Cell Factories*, 13: 164](#) 2014 .93
- [Tapan Kumar Mohanta* and Mohanta N. \(2013\). Microbial genomics and application of microarray in microbial biotechnology. *Advances in Biotechnology* \(ISBN: 1-626990-13-1\), Chapter 7: 153-171, Studium press USA](#) 2013 .94
- [Tapan Kumar Mohanta, Mohanta N. \(2013\). Genome-wide identification of auxin efflux carrier gene family in *Solanum tuberosum* L. *Journal of Natural Sciences*, 1\(2\): 44-51](#) 2013 .95
- [Tapan Kumar Mohanta*, Mohanta N. \(2013\). Genome-wide identification of auxin efflux carrier gene family in *Physcomitrella patens*. *Journal of Biotechnological Sciences*, 1\(2\): 54-64](#) 2013 .96
- [Tapan Kumar Mohanta*. \(2013\). Plant metabolomics: missing links in next generation functional genomics era. *Journal of applied Biology and Biotechnology*, Vol.1\(3\), 1-10](#) 2013 .97
- [Tapan Kumar Mohanta*, Mohanta N. \(2013\). Genome-wide identification of auxin efflux carrier gene family in *Solanum tuberosum* L. *Journal of Natural Sciences*, 1\(2\): 44-51](#) 2013 .98
- [Tapan Kumar Mohanta*, Mohanta N. \(2013\). Genome-wide identification of auxin efflux carrier gene family in *Physcomitrella patens*. *Journal of Biotechnological Sciences*, 1\(2\): 54-64](#) 2013 .99
- [Tapan Kumar Mohanta*. \(2013\). Plant metabolomics: missing links in next generation functional genomics era. *Journal of applied Biology and Biotechnology*, Vol.1\(3\), 1-10](#) 2013 .100
- [Chidananda NK, Tapan Kumar Mohanta, Andrea Capuzzo, Francesca Verrillo, Massimo E. Maffei, Mickael Malnoy. \(2013\). Differential expression of CPKs and cytosolic Ca²⁺ variation in resistant and susceptible apple cultivars \(*Malus x domestica*\) in response to pathogen *Erwinia amylovora* and mechanical wounding. *BMC Genomics*, 14:760](#) 2013 .101
- [Tapan Kumar Mohanta* and Mohanta N. \(2012\). Recent advances in miRNA. *Advances in life Sciences* \(ISBN: 1-933699-69-8\), Chapter 4: 87-111, Studium Press, USA](#) 2012 .102
- [Tapan Kumar Mohanta*. \(2012\). Advances in *Ginkgo biloba* research: genomic and metabolomic perspectives. *African Journal of Biotechnology*, 11\(93\): 15936-15944](#) 2012 .103
- [Tapan Kumar Mohanta*. \(2012\). Advances in *Ginkgo biloba* research: genomic and metabolomic perspectives. *African Journal of Biotechnology*, 11\(93\): 15936-15944](#) 2012 .104
- [Tapan Kumar Mohanta, Andrea Occhipinti, Simon A Zebelo, Maria Foti, Judith Fliegmann, Simone Bossi, Massimo E Maffei, Cinzia M Berteau. \(2012\). *Ginkgo biloba* responds to herbivory by activating early signaling and direct defenses. *PLoS One*, 7\(3\): e32822](#) 2012 .105
- [Tapan Kumar Mohanta, Patra JK, Rath SK, Pal DK, Thatoi H. \(2007\). Evaluation of antimicrobial activity and phytochemical screening of oils and nuts of *Semicarpus anacardium*. *Scientific Research and Essay*, 2\(11\): 486-490](#) 2007 .106

العضوية في الهيئات المهنية

Topic editor, Opportunities and Challenges for nanotechnology in Sustainable Agri-Food :الآن-2022
Production, Frontiers in Nanotechnology

Topic editor, Fungi for food and environment sustainability, Frontiers in Microbiology :الآن-2022

Topic editor, Structural Variation of the Chloroplast Genome and Related Bioinformatics :الآن-2022
Tools, Frontiers in Plant Science

Associate Editor, Mitochondrial DNA Part B: Resources, Taylor & Francis :الآن-2022

Associate Editor, Frontiers in Ecology and Evolution :الآن-2022

Associate Editor, Frontiers in Molecular Biosciences :الآن-2022

Editorial Board Member, Scientific Reports :الآن-2022

Editorial Board Member, BMC Plant Biology :الآن-2022

Named as top 2% highly cited researcher in the world as per Stanford University :الآن-2021
Ranking

Editorial Board Member, BMC Genomic Data :الآن-2021

Member, Australasian proteomics society :الآن-2021

Editorial board member, BMC Research notes, Springer Nature :الآن-2021

(Honorary Rosalind Membership, London Journal Press (Membership ID: UK43494 :2020-2020

Topic Editor, International Journal of Molecular Sciences (IJMS), MDPI :الآن-2020

Associate editor, Frontiers in Plant Science, Frontiers Media :الآن-2020

Associate Editorial Board Member, Current Proteomics, Bentham Science :الآن-2020

Editor, Current Protein and Peptide Science, Publisher: Bentham Science :الآن-2018

Asian Council of Science editors :الآن-2017

Member, American society of plant pathology :الآن-2010

الجوائز والتقدير

Government of Italy Doctoral Scholarship for International Students (Full tuition fee and 2008
(living stipend

Italian Government fellowship, Department of Secondary and higher education, Ministry of 2007
(HRD, Govt. of India (Selected through all India Competition

Ranked first, M.Sc. Biotechnology degree examination, North Orissa University, India 2006

Meritorious student award, Bachelor's degree study, Karanjia College Karanjia, India 2003

Ranked 3rd in Botany Honours, B.Sc. degree examination, North Orissa University, India 2003

