

## Curriculum Vitae

**Dr. Tikam Chand Dakal** (Assistant Professor)

Ph.D.- Italy; Postdoc- Canada & France; Young Scientist- Germany; Senior Scientist- USA  
Ranked Among the 'Top- 2% Scientists' of the World by the Stanford University, USA

**Official Address:** Genome & Computational Biology Lab,  
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### Teaching/Research Interest:

Cancer Biology	Genomics	Neurodegenerative Disease	Bioinformatics
Computational Structural Biology		Drug Discover & Development	Nanobiotechnology

### Research Experience Snapshots

**Aug, 2022-Nov, 2022 Senior Scientist** (Cancer Diagnostics & Experimental Therapeutics)  
**Beckman Research Institute of the City of Hope**  
Los Angeles, California, **United State of America**

**Jun, 2018-Till date Assistant Professor- Biotechnology**  
**Genome & Computational Biology Lab**  
Department of Biotechnology, MLS University, Udaipur (Raj.), **India**

**Aug, 2016-May, 2018 Assistant Professor- Bioscience**  
Department of Biosciences, Manipal University, Jaipur (Raj.), **India**

**May, 2017-Aug, 2017 Visiting Prof./Researcher**  
**Title:** *Dissection of S. cerevisiae Genome and QTL Mapping*  
University of Bordeaux, **France**

**Mar, 2016-May, 2016 Assistant Professor- Biotechnology**  
University Institute of Biopharma Sci, Chandigarh University, Punjab, **India**

**Jan, 2016-Mar, 2016 Executive Officer**  
**G1 Biosciences Pvt. Ltd., Chandigarh, India**

**Jul, 2014-Oct, 2015 Post-doc fellow**  
**Title:** *Regulatory role of APE1-PRDX1 interaction*  
Hospital Maisonneuve-Rosemont, University of Montreal, **Canada**

**Mar, 2011-Apr, 2014 Ph.D. Scholar**  
**Title:** *Evolutionary impact of life cycle and mating system on genotypic and phenotypic diversity in Zygosaccharomyces strains*  
Dept of Life Sciences, University of Modena and Reggio Emilia, **Italy**

**Jul, 2007-Jan, 2011 Junior and Senior Research Fellow**  
**Area:** Biochemical Engineering & Process Development  
BERPDC, CSIR-Institute of Microbial Technology, Chandigarh, **India**

**Sep, 2006-Mar, 2007 Trainee**  
**Area:** Molecular Biology and Microbiology  
Clonogen Biotechnology Pvt. Ltd., Noida, **India**

## Academic Qualifications

**2002-2007** M.Sc. in Biotechnology  
B.Sc in Life Sciences  
Mohanlal Sukhadia University, Udaipur, Rajasthan

**1999-2001** Higher Secondary (10th) and Senior High Secondary (12th)  
Kendriya Vidyalaya (CBSE Board), Udaipur, Rajasthan

## Grants Sanctioned

**2019** UGC Start-up Fellow (10 Lacs- Completed project)  
**2018** DST-Early Career Research Grant (32.59 Lacs- Completed project)  
**2015** HMR Foundation Post-doc Grant (40,000 Canadian Dollars Per Year),  
Montreal, Canada

## Awards | Honors | Recognitions | Invited Lecturer

**2023** External Advisory Member in the 'National Assessment and Accreditation' Committee of some Universities (Apr, 2023)  
**2023** Invited Lecture at Microbiologists Society India (Jan 03, 2023)  
**2023** Invited Lecture at Science College, Nagpur (Jan 01, 2023)  
**2022** Invited Lecture at Association of Microbiologists of India (Dec 24, 2022)  
**2022** **Rated Among the Top 2% Scientist of the World by the Stanford University, USA (Oct, 2022)**  
**2022** Invited Lecture on "Drug Repurposing: Insights from Research on Coronavirus Genome" at Drug Discovery 2022 Blue Jeans Meeting held at Paris, France (Mar 03, 2022 (Online))  
**2022** Invited Lecture on "Silver Nanoparticles and Their Formulations & Applications in Treatment of Human Diseases" at AUT Winter School, Iran (Feb 05, 2022)(Online)  
**2021** Invited Lecture at Dr. B Lal Institute of Biotechnology, Jaipur (Dec 16, 2021)  
**2021** Best Teacher Award by Microbiologists Society India (Dec 07, 2021)  
**2021** Appointed as the State Coordinator (Rajasthan) of Academic Activities by Microbiologists Society, India (Nov 09, 2021)  
**2021** Invited Lecture at RK University, Rajkot (July 18, 2021)  
**2021** Invited Lecture at Annual International Conference of the Association of Microbiologists of India (Feb 03-05, 2021)  
**2021** Invited by 101.9 MKz FM Radio Lakecity Udaipur for a Scientific Discussion on COVID-19. (Jan 21, 2021)  
**2021** First Prize in National Level Article Writing & Publishing Competition Organized by Microbiologists Society India (2021)  
**2020** Academic Excellence Award by InSc, Bangalore  
**2020** Research Excellence Award by InSc, Bangalore  
**2020** Travel Award\* for 43<sup>rd</sup> Annual Meeting of the Japan Neuroscience Society – Neuroscience2020 (Jul 29- Aug 01, 2020) (\*co-author)  
**2020** Invited Lecture at Nextgenhelper (Aug 22-23, 2020)  
**2020** Invited Lecture at Banasthali Vidyapith (Aug 17, 2020)  
**2020** Invited Lecture at CSIR-Institute of Genomics and Integrative Biology, New Delhi (Jul, 03, 2020)  
**2020** Invited Lecture at Institute of Bioinformatics, Bangalore (Jun, 25, 2020)  
**2020** Invited Lecture at Telangana Social Welfare Residential Degree College for Women, Mahabubnagar, Telangana (Jun, 12, 2020)

<b>2020</b>	Selected among Top-200 researchers in India in Ministry of Human Resource & Development, Government of India's COVID-19 Samadhan Challenge (Mar, 2020)
<b>2019</b>	Best Presentation Award at National Conference on Trends & Innovations in Chemistry, RNT PG College, Kapasan, Chittorgarh (Raj.) (6-7 Dec, 2019)- Supported by DST, Government of India.
<b>2019</b>	Invited Lecture in ICMACSN-2019 at Mody University, Lakshmangarh (Raj.) (26-27 Aug, 2019)
<b>2019</b>	Invited Lecture at IBRO-APRC Associate School of Neuroscience, Udaipur (05 to 11-08-2019)
<b>2019</b>	Invited Lecture at ICBMDT-2019 held at Central University of Rajasthan, Ajmer (08 to 10-03-2019)
<b>2018</b>	Invited Lecture at NISER, Bhubneshwar (13-04-2018)
<b>2018</b>	Invited Lecture at Central University of Gujrat, Gandhinagar (06 to 07-04-2018)
<b>2013</b>	FEMS Young Scientist Award at 26 <sup>th</sup> International Yeast Meeting, Goethe University, Germany (Aug-Sep, 2013)
<b>2007</b>	Graduate Aptitude Test in Engineering (GATE) (qualified once)
<b>2007, 2008, 2009</b>	Combined CSIR-UGC NET Examination (qualified thrice)

### Coordination of the Scientific Events

<b>2023</b>	Organizing Secretary of the International Conference on Recent Innovations in Biotechnological, Chemical and Environmental Sciences organized by Mohanlal Sukhadia University & Microbiologists Society India (15-16 <sup>th</sup> March, 2023) (Offline Mode: 758 Participations)
<b>2022</b>	Organizing Secretary of the Online Lecture on Internship Opportunities and Summer Trainings in India & Abroad organized by Mohanlal Sukhadia University & Microbiologists Society India (11 <sup>th</sup> March, 2022)
<b>2022</b>	Organizing Secretary of the Online Lecture of Prof. Rohit Saluja from AllMS, Telangana (India) on Real Time PCR for COVID-19 Diagnosis" organized by Microbiologists Society India (05 <sup>th</sup> March, 2022)
<b>2022</b>	Organizing Secretary of the Scientific Writing Competition organized jointly by Mohanlal Sukhadia University & Microbiologists Society India (28 <sup>th</sup> Feb, 2022)
<b>2022</b>	Organizing Secretary of the Online Lecture Prof. Zeti Azura from UKM, Malaysia on Understanding Diseases: The In-silico Way" organized by Microbiologists Society India (07 <sup>th</sup> Feb, 2022)
<b>2022</b>	Organizing Secretary of the Online Lecture of Dr. Narendra Kr Sharma from Banasthali Vidyapith, Tonk (India) on Tools & Techniques in Biotechnology: Mass Spectrometry organized by Microbiologists Society India (17 <sup>th</sup> Jan, 2022)
<b>2021</b>	Organizing Secretary of the National webinar on 'Biofertilizers: an Eco-friendly Tool organized by the Department of Biotechnology, Mohanlal Sukhadia University, Udaipur (29 <sup>th</sup> Oct, 2021)
<b>2021</b>	Organizing Secretary of the Webinar on Biotoilets organized by Department of Biotechnology, Mohanlal Sukhadia University, Udaipur (28 <sup>th</sup> Oct, 2021)

<b>2021</b>	Organizing Secretary of the International Virtual Conference on COVID-19: Myths and Facts organized by Department of Biotechnology, Mohanlal Sukhadia University, Udaipur (July 14, 2021)
<b>2020</b>	Organizing Secretary of the "National Webinar on Implementation of Aanandam: An Eternal Joyful Learning for the Benefit of Society and Nation" organized by Department of Biotechnology, Mohanlal Sukhadia University, Udaipur (Dec 07, 2020)
<b>2020</b>	Organizing Secretary of the "National Webinar on NEP: Opportunities, Challenges and Possible Roadmaps for Successful Implementation" organized by Department of Biotechnology, Mohanlal Sukhadia University, Udaipur (Nov 11, 2020)
<b>2020</b>	Member of the Advisory Committee of the National Webinar on Strategies for Implementing New Educational Policies: Issues and Challenges organized by Faculty of Management Studies, Mohanlal Sukhadia University, Udaipur (Sep 05, 2020)
<b>2020</b>	Organizing Secretary of the International Webinar on COVID-19: Diagnosis, Treatment and Novel Drug Discoveries organized by Department of Biotechnology, Mohanlal Sukhadia University, Udaipur (May 20 & 25, 2020)
<b>2020</b>	Coordinator of the Online Yoga Session organized by Department of Biotechnology, Mohanlal Sukhadia University, Udaipur (May 22, 2020)

#### **Orientation Programme, Refresher Courses and Faculty Development Programme**

<b>2020</b>	FDP on Entrepreneurship Development (10-17 <sup>th</sup> August, 2020) Organized by Centre for Molecular and Nanomedical Sciences, International Research Centre (IRC), Sathyabama Institute of Science and Technology, Chennai.
<b>2020</b>	WIPO Certificate Course: Introduction to the Patent Cooperation Treaty [PCT101E20]
<b>2020</b>	WIPO Certificate Course: e-Tutorial on Using Patent Information [DL177E20S1]
<b>2020</b>	WIPO Certificate Course: General Course on Intellectual Property (version 2) [DL101E20S3]
<b>2020</b>	FDP- Research Revisited: Reflection on Analytical Tools at MLS University, Udaipur (Jul 1-7, 2020)
<b>2020</b>	FDP- Cell Culture Technologies (online) (Feb-Apr, 2020) (exams awaited)
<b>2020</b>	FDP- Human Molecular Genetics (online) (Jan-Feb, 2020) (exams awaited)
<b>2019</b>	FDP- Biology for Engineers and other Non-biologists (online) (Jul-Aug, 2019)
<b>2019</b>	FDP- Functional Genomics (online) (Jul-Sep, 2019)
<b>2019</b>	FDP- Bioinorganic Chemistry (online) (Aug-Sep, 2019)
<b>2019</b>	Orientation Programme (OP-133) at UGC-HRDC, Shimla (May-Jun, 2019)
<b>2019</b>	Refresher Course (online) in Biotechnology (Mar, 2019)
<b>2019</b>	Refresher Course (online) in Chemistry (Mar, 2019)
<b>2018</b>	Online Courses in Development Perspectives in Agriculture (Nov, 2018-Feb-2019)

## Oral/Poster Presentations, Trainings and Workshop Attended

- 2022** Presented a Paper in the ICIAIR 2022 Held at Mewar University Chittorgarh (Nov 28-29, 2022)
- 2020** Presented a Poster in the IPPC-Greece 2020 Virtual Congress (Sep 03-04, 2020)
- 2020** Participated in the 43<sup>rd</sup> Annual Meeting of the Japan Neuroscience Society – Neuroscience2020 (Jul 29- Aug 01, 2020)
- 2019** Attended Hands-on Training Program “Medical Genomics” organized by Sapthagiri Institute of Medical Sciences and Research Centre jointly with Bengaluru Genomics Centre (BGC) (13-14 Dec, 2019)
- 2019** Oral Presentation in National Conference on Trends and Innovations in Chemistry at RNT PG College, Kapasan, Chittaurgarh (6-7 Dec, 2019)
- 2019** Poster Presentation in National Conference on Trends and Innovations in Chemistry at RNT PG College, Kapasan, Chittaurgarh (6-7 Dec, 2019)
- 2019** Poster Presentation in Regional Young Investigators’ Meeting West at IIT, Jodhpur (31 Oct- 02 Nov, 2019)
- 2019** Oral Presentation in Rajasthan Science Congress at MLS University, Udaipur (14-16 Oct, 2019)

## Book(s) Published

- 2020** Famous Biologists of the World (Series 2) published by Society for Promotion of Science Education and Research, India

## Manuscripts Published

### Year 2023

1. Bhardwaj P, Sharma NK, **Dakal TC**, Jain R. Study of the Effect of Smoking on Glycemic Status: A Clinical Study on Indian Sub-population. Journal of International Research in Medical and Pharmaceutical Sciences, 1-7. **IMPACT FACTOR 4.17**
2. Han J, Zhang Y, Ge P, **Dakal TC**, Wen H, Tang S, Luo Y, Yang Q, Hua B, ... et al. Exosome-derived CIRP: An amplifier of inflammatory diseases. Frontiers in Immunology 14. <https://doi.org/10.3389/fimmu.2023.1066721>. **IMPACT FACTOR 6.42**

### Year 2022

3. Wang Y, Setiawan MF, Liu H, **Dakal TC**, Liu H, Ge F, Rudan O, Chen P, ... et al. 2022. Regulator of G Protein Signaling 20 Correlates with Long Intergenic Non-Coding RNA (lincRNAs) Harboring Oncogenic Potential and Is Markedly Upregulated in Hepatocellular Carcinoma. Biology 11 (8), 1174. **IMPACT FACTOR 5.16**
4. Breuer K, Riedhammer KM, Müller N, Schaidinger B, Dombrowsky G, ..**Dakal TC**... et al. 2022. Exome sequencing in individuals with cardiovascular laterality defects identifies potential candidate genes. European Journal of Human Genetics 30 (8), 946-954. **IMPACT FACTOR 5.35**
5. Dhakar R, **Dakal TC**, Sharma A. 2022. Genetic determinants of lung cancer: Understanding the oncogenic potential of somatic missense mutations. Genomics 114 (4), 110401. **IMPACT FACTOR 5.73**

6. Tatipamula VB, Thonangi CV, **Dakal TC**, Vedula GS, Dhabhai B, ... et al. 2022. Potential anti-hepatocellular carcinoma properties and mechanisms of action of clerodane diterpenes isolated from *Polyalthia longifolia* seeds. *Scientific Reports* 12 (1), 9267. **IMPACT FACTOR 4.99**
7. Aretz P, Maciaczyk D, Yusuf S, Sorg RV, Hänggi D, Liu H, Liu H, **Dakal TC**, ... et al. 2022. Crosstalk between  $\beta$ -Catenin and CCL2 Drives Migration of Monocytes towards Glioblastoma Cells. *International Journal of Molecular Sciences* 23 (9), 4562. **IMPACT FACTOR 6.20**
8. Rakhecha B, Agnihotri P, **Dakal TC**, Saquib M, Biswas S. 2022. Anti-inflammatory activity of nicotine isolated from *Brassica oleracea* in rheumatoid arthritis. *Bioscience Reports* 42 (4), BSR20211392. **IMPACT FACTOR 3.97**
9. Dhabhai B, Sharma A, Maciaczyk J, **Dakal TC**. 2022. X-Linked Tumor Suppressor Genes Act as Presumed Contributors in the Sex Chromosome-Autosome Crosstalk in Cancers. *Cancer Investigation* 40 (2), 103-110. **IMPACT FACTOR 2.368**
10. Qin J, Sharma A, Wang Y, Tobar-Tosse F, **Dakal TC**, Liu H, Liu H, Ke B, ... et al. 2022. Systematic discrimination of the repetitive genome in proximity of ferroptosis genes and a novel prognostic signature correlating with the oncogenic lncRNA CRNDE in multiple myeloma. *Frontiers in Oncology* 12, 1026153. **IMPACT FACTOR 5.36**
11. Sharma P, Pandey P, **Dakal TC**, Sharma NK. 2022. Principles of cardiovascular rehabilitation. Cardiovascular toxicity and therapeutic modalities targeting cardio-oncology. P215-228. **IMPACT FACTOR NA**
12. Agarwal G, Mohan M, Menon AM, Sharma A, **Dakal TC**, Purohit SD. 2022. Analysis of the Adomian decomposition method to estimate the COVID-19 pandemic. *Methods of Mathematical Modelling*, 173-187. **IMPACT FACTOR NA**

#### Year 2021

13. Singh M, ... **Dakal TC**. et al. 2021. Gene regulation of intracellular adhesion molecule-1 (ICAM-1): a molecule with multiple functions. *Immunology Letters*, 240, p 123-136. **IMPACT FACTOR 4.23**
14. **Dakal TC**. Antigenic Sites in SARS-CoV-2 Spike RBD Show Patchy Similarity with Antigens from Fifteen Pathogenic Microorganisms and Harbor Peptides for Vaccine Development. *Immunobiology*, 226(5), 152091. **IMPACT FACTOR 3.16**
15. Nguyen HT, Vu T-Y, **Dakal TC**, Dhabhai B, Nguyen XHQ, Tatipamula VB, Cleroda-4(18),13-dien-15,16-olide as novel xanthine oxidase inhibitors: An integrated in silico and in vitro study. *PLoS ONE*, 16(6), e0253572. **IMPACT FACTOR 3.75**
16. Dworschak GC, ..... **Dakal TC**, et al. Biallelic and monoallelic variants in PLXNA1 are implicated in a novel neurodevelopmental disorder with variable cerebral and eye anomalies. *Genetics in Medicine*, <https://doi.org/10.1038/s41436-021-01196-9>. **IMPACT FACTOR 8.86**
17. Uttarilli A, .... **Dakal TC**, et al. Super-rapid race for saving lives by developing COVID-19 vaccines. *Journal of Integrative Bioinformatics*. 18(1), 27-43. **IMPACT FACTOR 3.66**
18. Menon AM, Ivanti T, Sharma A, Purohit SD, Saklani JS, Kumar A, Sharma NK, Sharma A, **Dakal TC**. Treatment Strategies for COVID 19: New Insights from Comparative Genome Analysis, Pathophysiology, Host-Virus Interaction and Immune Response. *International Journal for Computational Biology*, 9, 24-42. **IMPACT FACTOR NA**
19. Mathur R, Sharma L, Dhabhai B, Menon AM, Sharma A, Sharma NK, **Dakal TC**. Predicting the functional consequences of genetic mutations in co-stimulatory ligand B7 using in-silico approaches. *Human Immunology*, 82(2), 103-120. **IMPACT FACTOR 2.21**
20. Sharma A, Liu H, Herwig-Carl MC, **Dakal TC**, Schmidt-Wolf IGH. Epigenetic regulatory enzymes: mutation prevalence and coexistence in cancers. *Cancer Investigation*, 39(3), <https://doi.org/10.1080/07357907.2021.1872593>. **IMPACT FACTOR 2.36**

21. Sharma A, Tobar-Tosse F, **Dakal TC**, Liu H, Biswas A...., Herwig-Carl MC. PPAR- Responsive Elements Enriched with Alu Repeats May Contribute to Distinctive PPAR $\gamma$ - DNMT1 Interactions in the Genome, *Cancers*, 13(16), 3993. **IMPACT FACTOR 6.57**
22. **Dakal TC**. SARS-CoV-2 attachment to host cells is possibly mediated via RGD-integrin interaction in a calcium-dependent manner and suggests pulmonary EDTA chelation therapy as a novel treatment for COVID-19. *Immunobiology*, 226(1), 152021. **IMPACT FACTOR 3.16**
23. Dhabhai B, Lohar D, Surolia PK, Sharma A, Dakal TC. Integrated Bioinformatics Approach Showed Linagliptin as Potential Drug for Prevention of Cardiac Arrest and Cancer. *International Journal for Computational Biology*, Manuscript Accepted. **IMPACT FACTOR NA**

## Year 2020

24. **Dakal TC**. Role of integrins in multi-organ infection and failure in COVID-19. *Trends in Carbohydrate Research*, 2020, 12, 53-57. **IMPACT FACTOR 0.6**
25. Schmidt JM..... **Dakal TC**, et al. SLC20A1 is a regulator of urinary tract development and involved in the pathogenesis of human bladder exstrophy-epispadias complex. *Frontiers in Cell and Development Biology*, 2020. Manuscript Accepted **IMPACT FACTOR 5.20**
26. Zhang R, Gehlen J, Kawalia A, Melissari MT, **Dakal TC** et al. Human exome and mouse embryonic expression data implicate ZFH3, TRPS1, and CHD7 in human esophageal atresia PLoS ONE. 2020, <https://doi.org/10.1371/journal.pone.0234246> **IMPACT FACTOR 4.41**
27. Sharma A, Weber D, Raupbach J, **Dakal TC** et al. Advanced glycation end products and protein carbonyl levels in plasma reveal sex-specific differences in Parkinson's and Alzheimer's disease. *Redox Biology*, 2020, 34, 101546. **IMPACT FACTOR 7.79**
28. Sharma A, Liu H, Tobar-Tosse F, Noll A, **Dakal TC**, Li H, Holz F, Loeffler K, Herwig-Carl M. Genome organization in proximity to the BAP1 locus appears to play a pivotal role in a variety of cancers. *Cancer Science*, 2020, **IMPACT FACTOR 4.75**
29. **Dakal TC**, Dhabhai B, Agarwal D, Gupta R, Nagda G, Meena AR, Mathur R, Mona, Yadav V, Sharma N, Sharma A. Mechanistic basis of co-stimulatory CD40-CD40L ligation mediated regulation of immune responses in cancer and autoimmune disorders. *Immunobiology*. 2020, **IMPACT FACTOR 2.79**
30. Sharma A, Liu H, Tobar-Tosse F, **Dakal TC** et al. Ubiquitin Carboxyl-Terminal Hydrolases (UCHs): Potential Mediators for Cancer and Neurodegeneration. *International Journal of Molecular Sciences*. 2020, 21(11), 3910. **IMPACT FACTOR 4.18**
31. Jansen AML, Ghosh P, **Dakal TC** et al. Novel candidates in early-onset familial colorectal cancer. *Familial Cancer*. 2020, 19, 1-10. **IMPACT FACTOR 2.20**
32. **Dakal TC**. Trafficking of DNA repair factors into mitochondria for the repair of oxidative lesions on mtDNA. *Journal of Pharmacology & Clinical Toxicology*. 2020, 8(1), 1137. **IMPACT FACTOR NA**

## Year 2019

33. Sharma A, Osato N, Liu H, Asthana S, **Dakal TC**, Ambrosini G, Bucher P, Schmitt I, Wüllner U. Common genetic variants associated with Parkinson's disease display widespread

signature of epigenetic plasticity. *Scientific Reports*, 2019, *Scientific Reports*, Vol. 9(1), pp. 1-9. **IMPACT FACTOR 4.52**

34. Sharma A, Biswas A, Liu H, Sen S, Paruchuri A, Katsonis P, Lichtarge O, **Dakal TC**, Maulik U, Gromiha MM, Bandyopadhyay S, Ludwig M, Holz FG, Loeffler KU, and Herwig-Carl, MC. Mutational Landscape of the BAP1 Locus Reveals an Intrinsic Control to Regulate the miRNA Network and the Binding of Protein Complexes in Uveal Melanoma. *Cancers*, 2019, 11, 1600; doi:10.3390/cancers11101600. **IMPACT FACTOR 6.10**
35. **Dakal TC**. Identification of BAP1-associated microRNAs and Implications in Cancer Development. *International Journal of Cancer Science & Therapy*, 2019, 1(1): 1-4. **IMPACT FACTOR NA**
36. **Dakal TC**, Dhabhai B. Current status of genetic & metabolic engineering and novel QTL mapping-based strategic approach. *Gene Reports*, 2019, 17: 100497. **IMPACT FACTOR NA**

#### Year 2018

37. Sharma A, **Dakal TC** (co-first author), Ludwig M, Fröhlich H, Mathur R, Reutter H. Towards a Central Role of ISL1 in the Bladder Exstrophy–Epispadias Complex (BEEC): Computational Characterization of Genetic Variants and Structural Modelling. *Genes* 2018, 9 (12): 609. **IMPACT FACTOR 3.3**
38. **Dakal TC**. Methodologies for ascertaining the anti-cancer potential of DNA G-quadruplex stabilizers. *J Bioinform, Genomics, Proteomics* 3(1): 1028, 2018.
39. **Dakal TC**, Solieri L, Giudici P. Evaluation of fingerprinting techniques to assess genotype variation among *Zygosaccharomyces* strains. *Food Microbiology*, 72: 135-145, 2018. **IMPACT FACTOR 4.0**

#### Year 2017

40. **Dakal TC**, Kumar D, Dhiman G, Yadav V. Predicting the functional consequences of nsSNPs in IL-8 gene. *Scientific Reports*, 2017, 7: 6525. DOI:10.1038/s41598-017-06575-4 **IMPACT FACTOR 5.5**
41. **Dakal TC**, Kumar R, Ramotar, D. Computational structural modeling of human organic cation transporters. *Computational Biology & Chemistry*, 68: 153-163, 2017. **IMPACT FACTOR 1.0**
42. **Dakal, TC**, Pal M. Antimicrobial actions of silver nanoparticles: next generation antimicrobial therapy. *Journal of Drug Metabolism and Toxicology*. 2017

#### Year 2016 and earlier

43. **Dakal TC**, Kumar A, Majumdar RS, Yadav V. Mechanistic Basis of Antimicrobial Actions of Silver Nanoparticles. *Frontiers in Microbiology*. 7:1831, 2016. **IMPACT FACTOR 4.2**
44. **Dakal TC**, Giudici P, Solieri L. Contrasting Patterns of rDNA Homogenization within the *Zygosaccharomyces rouxii* Species Complex. *PLoS ONE*. 11(8): e0160744, 2016. doi:10.1371/journal.pone.0160744 **IMPACT FACTOR 3.5**
45. Solieri L, Vezzani V, Cassanelli S, **Dakal TC**, Pazzini J, Giudici P. Differential hypersaline stress response in *Zygosaccharomyces rouxii* complex yeasts: a physiological and transcriptional study. *FEMS-Yeast Research*, 2016. DOI: <http://dx.doi.org/10.1093/femsyr/fow063>. **IMPACT FACTOR 2.8**
46. Ayachi S, **Dakal TC**, et al. The histone H2B Arg95 residue maintains expression of the pheromone-pathway essential for rapamycin-induced G1-arrest. *Yeast*, 2015, 32, XX. **IMPACT FACTOR 2.3#**



47. **Dakal TC**, Solieri L, Giudici P. Adaptive response and tolerance to sugar and salt stress the food yeast *Zygosaccharomyces rouxii*. *International Journal of Food Microbiology*. Vol 185, pp. 140-157, 2014. **IMPACT FACTOR 3.7**
48. Solieri L, **Dakal TC**, Giudici P, Cassanelli S. Sex-determination system in the diploid yeast *Zygosaccharomyces sapae*. *G3 Journal*, 2014, 4, 1011-1025, 2014. **IMPACT FACTOR 2.5**
49. Solieri L, **Dakal TC**, Bicciato S. Quantitative phenotypic analysis of multi-stress response in *Zygosaccharomyces* using *Grofit* package. *FEMS Yeast Research*. Vol 14, pp. 586-600, 2014. **IMPACT FACTOR 2.8**
50. **Dakal TC**, Solieri L, Giudici P. Getting insights from genomic complexities in *Zygosaccharomyces rouxii* complex. *Yeast*, Vol 30, pp. 232-232, 2013. **IMPACT FACTOR 2.3#**
51. Solieri L, **Dakal TC**, Croce MA, Giudici P. Unraveling genomic diversity of the *Zygosaccharomyces rouxii* complex with a link to its life cycle. *FEMS Yeast Research*, Vol 13, pp. 245-258, 2013. **IMPACT FACTOR 2.8**
52. Solieri L, **Dakal TC**, Giudici P. *Zygosaccharomyces sapae* sp. nov., a novel yeast species isolated from Italian traditional balsamic vinegar. *International Journal of Systematic and Evolutionary Microbiology*, Vol. 63, pp. 364-371, 2013. **IMPACT FACTOR 2.8**
53. Solieri L, **Dakal TC**, Giudici P. Next-generation sequencing and its potential Impact Factor on food microbial genomics. *Annals of Microbiology*, Vol. 63, Issue 1, pp. 21-37, 2013. **IMPACT FACTOR 3.3**
54. **Dakal TC**, Arora P. Evaluation of potential of molecular and physical techniques in studying biodeterioration. *Reviews in Environmental Science and Biotechnology*, Vol 11, pp. 71-104, 2012. **IMPACT FACTOR 4.93**
55. **Dakal TC**, Cameotra SS. Microbially induced deterioration of architectural heritages: routes and mechanisms involved. *Environment Science Europe*, Vol 24, 36, 2012.
56. Cameotra SS, **Dakal TC**. Carbonatogenesis: Microbial contribution to the conversion of monuments and stone artworks. *Conservation Science in Cultural Heritage*, Vol 2012, pp. 79-108, 2012.

### Conferences Papers

- Dhakar R, **Dakal TC**. Genetic determinants of lung cancer: Understanding the oncogenic potential of somatic missense mutations. International Conference on Recent Innovations in Biotechnological, Chemical and Environmental Science at Mohanlal Sukhadia University, Udaipur (15-16 Mar, 2023)
- Dhabhai B, **Dakal TC**. X-Linked Tumor Suppressor Genes Act as Presumed Contributors in the Sex Chromosome-Autosome Crosstalk in Cancers. International Conference on Recent Innovations in Biotechnological, Chemical and Environmental Science at Mohanlal Sukhadia University, Udaipur (15-16 Mar, 2023)
- Dhakar R, **Dakal TC**, Sharma A. Genetic determinants of lung cancer: Understanding the oncogenic potential of somatic missense mutations. ICIAIR -2022 at Mewar University, Chittorgarh (28-29 Dec, 2022)
- **Dakal, TC**. Empagliflozin and Linagliptin Drugs for the Treatment of Human Diseases in National Conference on Trends and Innovations in Chemistry at RNT PG College, Kapasan, Chittorgarh (6-7 Dec, 2019).
- Dhabhai B, **Dakal TC**. Implications of X-linked Tumor Suppressor Genes in Breast Cancer in National Conference on Trends and Innovations in Chemistry at RNT PG College,

Kapasan, Chittorgarh (6-7 Dec, 2019).

- Dhabhai B, Lohar D, **Dakal TC**. Linagliptin for Diabetes Treatment: Benefits & Risk Factors in VII Rajasthan Science Congress held at University College of Science, Mohanlal Sukhadia University, Udaipur (14-17 Oct, 2019)
- **Dakal TC**. Silver nanoparticles: cytotoxicity, genotoxicity and inflammatory responses in ICMACSN-2019 at Mody University, Lakshmangarh (Raj.)
- **Dakal, TC**, Pal M. Antimicrobial actions of silver nanoparticles: next generation antimicrobial therapy. 3<sup>rd</sup> World Congress on Antibiotics and Antibiotic Resistance, Jul 31-Aug 01, 2017, Milan, Italy.
- Mathur R, Sharma L, **Dakal TC**. Predicting the functional consequences of non-synonymous SNPs in co-stimulatory ligand B-7. In: 1st Manipal Student Research Colloquium. Mar 17-18, 2017, Manipal University Jaipur, India.
- Ayachi S, **Dakal TC**, et al. The histone H2B Arg95 residue maintains expression of the pheromone-pathway essential for rapamycin-induced G1-arrest. In: 27<sup>th</sup> Int Conf on Yeast Genetics and Molecular Biology. 06 Sep- 12 Sep 2015, Trentino, Italy.
- **Dakal TC**. Life cycle and reticulate evolution in *Zygosaccharomyces rouxii* complex. In: 18th Workshop on the Development of Italian PhD Research on Food Science Technology and Biotechnology (Edited by Corich V and Celotti E). pp. 75-79. 25-27 Sep, 2013. University of Padova and Udine, Conegliano, Italy.
- **Dakal TC**. Getting insights from genomic complexity in *Z. rouxii* complex. In: 26<sup>th</sup> International Conference on Yeast Genetics & Mol Biol. 29 Aug- 03 Sep 2013, Geothe Univ, Frankfurt, Germany.
- **Dakal TC**. *Zygosaccharomyces sapae*: from species delineation to mating type genes characterization. In: 17th Workshop on the Development of Italian PhD Research on Food Science Technology and Biotechnology (Edited by M Petracci and T G Toschi). pp. 205-206. 19-21 Sep, 2012. Cesena, Italy (ISBN978-88-6541-224-4)
- Solieri L, **Dakal TC**, Giudici P. *Z. sapae* from sugary-low acid niches: delineation of a new yeast species. In: 3rd National Conf SIMTREA. 26-28 Jun, 2012, Italy.
- Solieri L, **Dakal TC**, de Vero L. Complex nature of *Zygosaccharomyces* wild strains: a genotypic and functional characterization. In: Proceedings of the 1st Int. Conf on Microbial diversity 2011: Environmental Stress & Adaptation (Edited by A Casella, D. Daffonchio, M. Gobbetti, & E. Parente). pp. 33-36. 26-28 Oct, 2011. Milan, Italy.

## Book Chapters

1. **Dakal TC**, Cameotra SS. Geomicrobiology of heritage monuments and artworks: mechanisms of biodeterioration, bioconservation strategies and applied molecular approaches (Edited by Mason AC). In: Bioremediation: Biotechnology, Engineering and Environmental Management, Nova Science, New York, pp. 233-266, 2011.

## Workshops / Training Attended

- ✚ Attended Biotecnika Schondinger Joint Workshop on Computer-Aided Drug Discovery (22 Jul- 02 Aug, 2019)
- ✚ Attended Workshop on 'Pedagogy and Personal Effectiveness, at Manipal University Jaipur, India (Nov 10-12, 2016)
- ✚ Attended 2<sup>nd</sup> Practical Training Course on 'Molecular Biology Techniques', at School of Biotech, Chemistry & Biomedical Engg, VIT, Vellore, India (May 27- Jun 03, 2009)

- ✚ Attended Practical Training Course on 'Advanced Molecular Biology Techniques', at Clonogen Biotech Pvt. Ltd, Noida, India (Sep, 2006- Mar, 2007)

### Memberships of Societies

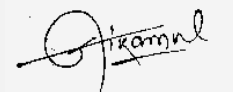
2021	Microbiologists Society India
2020	Institute of Scholars, Bangalore (India)
2020	Bioclues Organization (India), Research Chair
2020	Society for Promotion of Science Education and Research (SPSER), Udaipur (India)
2017	Trialect, Europe
2013-2015	Member of Federation of European Microbiological Societies- VAAM, Germany

### Administrative Duties & Editorial Activities

2019	Member of College Council for VII Rajasthan Science Congress held at Mohanlal Sukhadia University, Udaipur
2019	Training & Placement Coordinator, Mohanlal Sukhadia University, Udaipur
2017-2018	Ph.D. coordinator, Placement coordinator, MOOC courses coordinator at Manipal University Jaipur
2018	Member of Lab Experiment Committee- IV DST Inspire Camp, Jan 02- Jan 06, 2018 (at Manipal Univ Jaipur)
2017	Organizing committee- World Congress on Medical Sciences, Nov 09-11, 2017 (New Delhi)
2017	Chaired/co-chaired session in Manipal Student Research Colloquium, Mar 17-18, 2017
2017	Member of Transport Committee- III DST Inspire Camp, Jan 31- Feb 04, 2017 (at Manipal Univ Jaipur)
2017	Member of Transport Committee- Manipal Student Research Colloquium, Mar 17-18, 2017
2016-2017	Time table coordinator, Seminar co-coordinator at Manipal University Jaipur
2016	Member of Transport Committee- IMSCT-16, Manipal University Jaipur
2015 onwards	Editorial/Review board member (just to name a few important journals) Nature Scientific Reports, Frontiers in Microbiology, Frontiers in Genetics, Biochemistry and Cell Biology, Frontiers in Molecular Biosciences, Oncology Letters, Journal of International, Medical Research, Gene, Hayati Journal of Biosciences, JSM Bioinformatics, Genomics and Proteomics, Nanomedicine and Nanoscience Research, IET Nanobiotechnology, Asian Biomedicine, 3 Biotech, BioMed Research International, PeerJ, International Journal of Food Microbiology, just to name a few.

**Declaration:** I hereby declare that all the furnished information are true and correct to the best of my knowledge and belief and that no related information is concealed.

Place : Udaipur  
Date : May 01, 2023



(Tikam Chand Dakal, Ph.D.)