Vijaya Kumar Nalla

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My Objective of research

I would like to create and develop reasonable molecular leads and technologies for contemporary problems in applied biology and relevant fields such as microbiology, cancer biology, immunology, cell and molecular biology, computational biology, biotechnology and environmental sciences which are essential in ensuring healthy and sustainable life systems.

Research Qualifications:

Ph.D., title, "Functional analysis of *N*-acetylglucosamine inducible, *CaMPS1* & *CaNagD1* genes in *Candida albicans*" at School of Life Sciences, Jawaharlal Nehru University (J.N.U), New Delhi, India in 2010. Supervised by Prof. Asis Datta, Professor of Eminence.
Ref: Nalla VK[+] & Kamthan M[+] et al., PLOS One (2014).

M.Phil., title, "Molecular cloning and characterization of *N*-acetylglucosamine inducible serine/threonine and tyrosine protein kinase, *CaRPK1* in *Candida albicans*" from JNU, New Delhi, in 2005.

Research Publications (Latest to old):

1. **Nalla VK** and Asis Datta (2021) Molecular cloning and characterization of NagG like gene in Candida albicans, BOAJ Microbiology (communicated)

2. **Nalla VK**, Chuhan N., Sharma B., et al., (2019) Microbial contaminants in commercial beverages: health concerns and suggestive preservative methods. *Research & Reviews: A journal of Microbiology and Virology* 9(1):1-9
http://medicaljournals.stmjournals.in/index.php/RRJoMV/article/view/542

3. Manchanda T, Tyagi R, **Nalla VK**, Chahar S, Sharma DK (2018) Power generation by algal microbial fuel cell along with simultaneous treatment of sugar industry wastewater. *J Bioprocess Biotech* 8: 323. Doi: 10.4172/2155-9821.1000323 https://www.omicsonline.org/peer-reviewed/power-generation-by-algal-microbial-fuel-cell-along-with-simultaneous-treatment-of-sugar-industry-wastewaterp-101632.html

4. **Nalla VK**, Srivasatava S, Sirohi S, Khanduri D., Sen Gupta A., Sridevi T (2016) Synthesis of a novel microbial consortium useful in treatment of synthetic polymers & municipal solid wastes and its effect on the plant growth and environmental engineering. *Int. J. of Multidisciplinary and Current Research* (ISSN:2321-3124), Vol. 4: 1210-1215. http://ijmcr.com/synthesis-of-a-novel-microbial-consortium-useful-in-treatment-of-synthetic-polymers-municipal-solid-wastes-and-its-effect-on-the-plant-growth-and-environmental-engineering/

5. **Nalla VK** (2016) Enhanced Tomato plant growth in presence of a novel microbial consortia useful in bio-organic waste degradation- a pilot level field study. *Int. J. of Science* (ISSN: 2455-0108)
https://pdfs.semanticscholar.org/bae7/a61234d3d599ef5c4cb2efaaa3607e6c3737.pdf

6. **Nalla VK**, Khanduri D, Jha MK, Chahar S., and Sen Gupta A., (2015) Role of a novel microbial consortium in treatment of human waste and its effect on the plant growth and yield- A study on

Tomato crop. *Journal of Agroecology and Natural Resource Management* (p-ISSN: 2394-0786, e-ISSN:2394-0794) 2(5):337-340
http://www.krishisanskriti.org/vol_image/16Dec201511122629%20%20%20%20%20%20%20%20%20Vijay%20Kumar%20N%20%20%20%20%20%20%20%20%20%20%20%20337-340.pdf

7. **Nalla VK***, Kamthan M*, Ruhela D, Kamthan A, Maiti P, et al. (2014) Characterization of a Putative Spindle Assembly Checkpoint Kinase Mps1, Suggests Its Involvement in Cell Division, Morphogenesis and Oxidative Stress Tolerance in Candida albicans. *PLoS ONE* 9(7): e101517. doi:10.1371/journal.pone.0101517
http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0101517
(* Equal Author)

8. **Nalla VK** and Asis Datta., (2012) Comparative genomics and genome wide analysis of bidirectional promoters in Candida albicans *J Biotechnol Biomater* 2012 http://omicsonline.org/2155-952X/2155-952X-S1.019-006.pdf

10. **Nalla VK** and Asis Datta (2011) Comparative genomics and genome wide analysis of bidirectional promoters in Candida albicans (European Molecular Biology Organization (EMBO) conference series. No # 38, p.137

Research Techniques known (main):

Cloning procedures, DNA, RNA & Protein analysis: blotting techniques, mutational analysis, gene-knock outs, in-silico gene analysis, computational programs (CLUSTAL, Phylogeny etc), various Microscopy and staining techniques, Microbial Culture techniques, Flowcytometry and cyto genetic techniques and other relevant technologies.

Biological systems handled:

Escherichia coli, S. cerevisiae, Candida albicans, Bacillus cereus, Mice (for evaluating pathogenesis).

Research Project grants received:

1. A research grant equivalent of 10,000$ was received from University Grants Commission, Government of India, through University of Delhi for investigating on "Isolation of polymer degrading microbes useful in environmental engineering" during 2013-'14.
2. A star college project on "Study of Antimicrobial drug resistance and its implications" was completed in the year 2018-19.
3. Deptt of Biotechnology (DBT), Govt of India sponsored project on "Prevalence of microbial contaminants in packed juices and suggestive preservative measures" was completed in the year 2017-18.

Academic Qualifications:

M.Sc., Biochemistry **(**Andhra University Campus), Andhra Pradesh, India, 2000. Marks: 70% Grade: 1

B.Sc., in Microbiology, Biochemistry and Chemistry from P.B. Siddhartha College of Arts & Sciences, Nagarjuna University, Vijayawada, India in 1998. Marks: 72% Grade: 1

10+2 in Botany, Zoology, Physics and Chemistry from Board of Intermediate Studies, Andhra Pradesh, India in 1995. Marks: 76.8%, Grade: 1

Scholarships Received:

SRF: Senior Research Fellowship during 2008 to '09 by ICMR, Govt of India

JRF: Junior Research Fellowship during 2003 to '08 by ICMR

NET: National Eligibility Test qualified in 2003

MHRD-Visiting Scholar: Selected for Chinese Government Research Exchange Programme in 2017. (Un-availed)

JOB PROFILE:

Current Job: Assistant Professor (Microbiology)

Organization: Bhaskaracharya College of Applied Sciences, UNIVERSITY OF DELHI, New Delhi

Since: 14th May 2009

Job Profile: Teaching and Research guidance in microbiology to undergraduate students.

Industry Experiences:

Designation: Senior scientist & Advisor (Microbiology)

Organization_1: International Academy of Environmental Sanitation & Public Health, Delhi.

Period: Aug. 2012 – Aug. 2017

Job Profile: Microbiological analysis of drinking and industrial waste water. Research is carried out with a goal to isolate and enrich microbial strains which can improve the fertilizer quality of the biodegradable wastes. A novel product named "Microgen" has been developed and commercialized.

Administrative Experiences:

1. In-Charge, Department of Microbiology, BCAS, UNIVERSITY OF DELHI from 2009 to 2011 & 2017-2019
2. Appointed as the staff member of National Accreditation and Assessment Committee (NAAC, Govt. of India) in Bhaskaracharya college in 2014.

References

Dr. K. Natarajan, Ph.D., FNA,
Professor,
Laboratory of Eukaryotic Gene Expression, School of Life Sciences, Jawaharlal Nehru University,
New Delhi, INDIA-110067
nat0200@mail.jnu.ac.in

Prof. Asis Datta, Ph.D, D.Sc, FNA, FASc, FTWAS
Professor of Eminence,
Lab No.105, NIPGR, JNU campus,
New Delhi, INDIA-110067
assis_datta@rediffmail.com

Personal Information

Nationality: Indian

Languages: English, Hindi, Telugu

Date of birth: 1st Aug 1978

Marital status: Married

Hobbies: Reading, Music, Gardening

{Google scholar's page:

https://scholar.google.co.in/citations?view_op=list_works&hl=en&user=Th2LJ8IAAAAJ#}