



Punith B D

736, 3rd Main, 1st Phase,
4th Stage, Viyanagar,
Mysore - 570017

bdpunith@gmail.com
+919036624324

EDUCATION

M.Sc (Biotechnology) 2007 — 2009

JSS College of Arts, Commerce and Science (University of Mysore)

Bachelor of Science 2004 — 2007

Yuvaraja's College (University of Mysore)

QUALIFICATIONS

K-SET (Life Sciences) 2014

Qualified Karnataka State Eligibility Test for Lectureship/Assistant Professorship

WORK EXPERIENCE

Assistant Professor July 2016 — Present

Department of Biotechnology, The Oxford College of Science

Senior Research Fellow July 2013 — April 2016

ICAR - National Institute of Animal Nutrition and Physiology

Project scope:

- Study transcriptional and proteome landscape of copper deficiency in Sheep liver using RNA-Seq and qPCR based gene expression analysis, quantitative proteomics and immunoblotting.
- Investigate the role of mutations in structural and functional conformation of ATP7B (copper efflux transporter of P-type ATPase family) in liver by in-silico methods.
- Clone, sequence and characterize the copper chaperone for superoxide dismutase (CCS) coding region in sheep.

Junior Research Fellow December 2011 — July 2013

Department of Biochemistry, Kuvempu University

Project scope:

- Epidemiology and demographical survey of pregnancy associated malaria in Mangalore city.
- Studying polymorphisms in VAR2CSA-DBL domains in parasite infected red blood cells.
- Assessment of pathological components like parasite sequestration in placental tissues, anemia, birth weight and cytokine (TNF- α , IL-12, IL-6, IFN- γ and IL-10) levels in peripheral and placental blood samples and its association with disease severity and outcomes.

Lecturer October 2009 — August 2011

Department of Molecular Biology, Yuvaraja's College (University of Mysore)

Lecturer February 2011 — May 2011

Department of Biotechnology, Sri Lakshmi Hayagreeva College, Mysore

RESEARCH INTERESTS

1. Genomics and proteomics of stress responses and immuno-senescence and amelioration in eukaryotes.
2. Dissecting signal transduction pathways of host defense response to immunogenic and toxicogenic signatures in insects.

REVIEWER OF JOURNALS

1. Research in Veterinary Sciences
2. Journal of Steroid Biochemistry and Molecular Biology

SKILLS & COMPETENCES

Molecular Biology: Gel electrophoresis, Gene expression studies using Real Time PCR and Highthroughput Transcriptomic Methods.

Cell Biology: Mammalian cell culture, immuno-cytochemistry, gene cloning in bacterial systems, ELISA, Western blot and 2D-Gel Electrophoresis.

PUBLICATIONS

Research Articles

1. K. Sumana, B. D. Punith and N. S. Devaki (2014). First report on molecular and biochemical variations among the populations of *Fusarium oxysporum* infecting tobacco in Karnataka, India. *Journal of Agricultural Technology* 10(4): 931-950
2. Punith B. D, Shashiraja Padukone, Shivakumar R. V, Vijaykumar S. R, Narayan Panji, Pruthvi B. C, Maheshmurthy B. R, Channe D. G, Rajeshwara N. A. (2013) Subdural Hematoma in *Plasmodium falciparum* and *P. vivax* Mixed Infection Presenting Multiple Clinical Complications. *J Med Microbiol* 62:1902-1904. (Impact factor: 2.248).
3. M. Seema, B. D. Punith, N. S. Devaki (2013). First Report on isozyme analysis of *Rhizoctonia solani* infecting tobacco in Karnataka, India. *JSSCM Journal* 2(1):44-49.
4. Seema. M, Punith B. D, Devaki. N. S (2012). A Simple and rapid nuclear staining of *Rhizoctonia solani* Kuhn. *Biotech & Histochem* 87(3): 169-171. (Impact factor: 1.444).

Book Chapter

1. C G, David., J, Ghosh., B D, Punith and D T, Pal. "Feeding Strategies For Optimum Production And Reproduction". In, *Integrated Reproductive Management In Dairy Buffaloes*. J Ghosh and C G David. 1st ed. Bangalore: NIANP, 2016. 43 - 51. Print (ISBN: 978-81-932312-0-3).

Chapters in Training Manuals

1. D.T.Pal, N.K.S.Gowda, C.S. Prasad, K.S. Prasad, N.C.Valleesha, B.D.Punith and Payal Singh Som., Mineral supplementation and stress management in dairy animals; pp 122-128. In, souvenir of winter school on "Climate change and abiotic stress management in livestock: Basic concept and amelioration measures" 5th to 25th November 2013, NIANP, Bangalore.
2. D.T. Pal, N.K.S. Gowda, C.S. Prasad, N.C.Valleesha, B.D.Punith and Payal Singh Som., Estimation of mineral elements in feeds by atomic absorption spectrophotometer and inductively coupled plasma-atomic emission spectrophotometer; pp 182-191. In, souvenir of winter school on "Precision Feeding and Nutrigenomic Modulation of Underlying Physiology to Ameliorate Stress and Promote Production in Livestock" 4th to 13th September 2013, NIANP, Bangalore.
3. D.T. Pal, N.K.S. Gowda, C.S. Prasad, N.C. Valleesha, Payal Singh Som and B.D.Punith., Micronutrient bioavailability and markers for assessment of mineral status in animals; pp 23-31, In. souvenir of winter school on "Precision Feeding and Nutrigenomic Modulation of Underlying Physiology to Ameliorate Stress and Promote Production in Livestock" 4th to 13th September 2013, NIANP, Bangalore.

CONFERENCE PRESENTATIONS

1. Sreeja Ajith, J. Ghosh, Divya Shet, S. Shreevidhya, B.D.Punith and A.V. Elangovan., "Cloning and sequencing of phytase gene from a soil isolated novel *Aspergillus foetidus* 11682 strain" In, "International Symposium on Microbiome in Health and Disease (MicroHD-2016)", February 23-25, 2016 held at Bangalore, India.
2. Sangeetha Kannan, Shree Vidhya Srinivasan, Punith B D, Sujoy K Dhara and Jyotirmoy Ghosh., Comparative growth kinetics and functional gene expression analysis in different media formulations for porcine mesenchymal stem cells in vitro. In, "2nd Indo-Global Summit & Expo on Veterinary", October 26-28, 2015 held at Hyderabad, India. *J Veterinar Sci Technolo* 2015, 6(6):62
3. Punith B. D., Pal. D. T and Ghosh. J., Differential Transcriptome profiling of Sheep (*Ovis aries*) liver fed with copper deficient and adequate diets. In, "3rd International Conference on Genomics and Proteomics Research", May 28 – 29, 2015, held at Bangalore, India.
4. D. T. Pal, J. Ghosh, B. D. Punith, S. V. Shreevidhya and Moumita Maity, (2015) Effect of Dietary Levels of Copper on Copper/Zinc-Superoxide Dismutase (SOD) and Copper Chaperone for Superoxide Dismutase (CCS) Genes Expression in Whole Blood and Erythrocyte of Sheep. In, "Eco-Responsive Feeding and Nutrition: linking Livestock and Livelihood: Abstract Papers". Proceedings of IX Biennial Animal Nutrition Association Conference, January 22-24, 2015 held at Guwahati, Assam, India.
5. Sangeetha Kannan, B. D. Punith, Sujoy K. Dhara and Jyotirmoy Ghosh, (2014) Derivation of mesenchymal stem cell from porcine bone marrow with and without erythrocyte lysis. In, "National Conference on Opportunities and Strategies for Sustainable Pig Production", December 20-21, 2014 held at Guwahati, Assam, India.
6. J. Ghosh, D. T. Pal, G. Maya, S. Shreevidhya, B. D. Punith and C. S. Prasad, (2014). Analysis of copper chaperone for Cu/Zn-superoxide dismutase (CCS) gene sequence and confirmation of its presence in peripheral blood cells of sheep (*Ovis aries*). In, "Global Animal Nutrition Conference (GLANCE 2014)", April 20 - 23, 2014 held at Bangalore, India.
7. Punith B. Devaraju, Shashiraja Padukone, Ravindra Puttaswamy, Srinivas B. Kakkilaya, Susanta K. Ghosh, D. Channe Gowda, and Rajeshwara N. Achur, (2013). Epidemiology of malaria in south-western region of India. In, "Advances in Plasmodium vivax Malaria Research", May 28 - 29, 2013 held at Barcelona, Spain.
8. Shashiraja Padukone, Punith B. Devaraju, Ravindra Puttaswamy, Srinivas B. Kakkilaya, Susanta K. Ghosh, D. Channe Gowda, and Rajeshwara N. Achur, (2013). Control measures and malaria persistence in Mangalore city in south-western India. In, "Advances in Plasmodium vivax Malaria Research", May 28 - 29, 2013 held at Barcelona, Spain.

AWARDS

- 2015:** Best poster presentation award " 3rd International Conference on Genomics and Proteomics Research", May 28 – 29, 2015, held at Bangalore, India.
- 2015:** Best paper (oral) presentation award, IX Biennial Animal Nutrition Association Conference, January 22-24, 2015 held at Guwahati, Assam, India.
- 2013:** Travel Grant from John E. Fogarty Foundation and New York Academy of Sciences (USA) to Attend "Advances in Plasmodium vivax Malaria Research" Meeting, May 28 - 29, 2013 held at Cosmo Caixa, Barcelona, Spain (Not availed).

MEMBERSHIP IN PROFESSIONAL BODIES

2013-2014: Member of New York Academy of Sciences (USA)

**WORKSHOPS,
FDP'S &
TRAINING'S
ATTENDED**

1. Participated in Faculty Development Program on " R - Programming for Scientists and Engineers" Organized by National Institute of Technology, Warangal from 30th June 5th July 2017.
2. Participated in workshop on "Immutable Role of Teachers in Student Career Development" Organized by Padmashree Institute of Management and Sciences, Bangalore on 17th December 2016.
3. Presented poster at the "3rd International Conference on Genomics and Proteomics Research", May 28 – 29, 2015, held at Bangalore, India.
4. Attended conference on "Applying NGS: Basic Research, Agriculture & Healthcare" Organized by Genotypic Technology Pvt Ltd. Bangalore on 11th September 2014.
5. Participated in Hands on training workshop on "Sanger Sequencing" Organized by Genotypic Technology Pvt Ltd. Bangalore on 1st February 2014.
6. Attended Indo-US Seminar cum Workshop on "Malaria Research and Training" Organized by Pennsylvania State University, USA in association with Kuvempu University, Shimoga on 5th February 2013.
7. Attended Indo-US Symposium on "Molecular Pharmacology and Applied Therapeutics" conducted by JSS Medical College, Mysore. 6th-7th November 2012.
8. Attended National Workshop on "Scientific/ Research Paper Writing" from 8-10 June 2012, organized by National Academy of Sciences, India at Central Institute of Fisheries Education, Mumbai.
9. Attended Indo-US Seminar cum Workshop on "Malaria Research Training" Organized by JNCASR Bangalore in association with Kuvempu University, Shimoga and NIMR Field Unit, Bangalore from 16 to 21 January 2012.
10. Attended International Workshop on "Biostatistics and Epidemiology" jointly conducted by Department of Public Health and Biostatistics, Manipal University and The College of Public Health, Ohio State University, USA. December 2011.
11. Attended XVII Hands on Training and Workshop on "X-Ray Crystallography of Small Molecules and Biomolecules" at Holy Cross College, Trichy, India. 25th-26th August 2011.

REFERENCES

Dr. Nirmala Nair

Associate Professor
The Oxford College of Science
HSR Layout, Bangalore - 560102

drnirmala.oxford@gmail.com
+919845325602

I solemnly declare that the details furnished here are true to the best of my knowledge and belief.

(PUNITH B D)