

Profile of Dr. N. Prabhusaran Research Faculty

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Dr. Prabhusaran is affiliated to the Chennai Medical College Hospital and Research Centre (SRM Group), Tiruchirapalli, Tamilnadu affiliated to The Tamilnadu Dr. M.G.R. Medical University where he has been working as Research Faculty. He did his postgraduation in Applied Microbiology and Doctorate in Medical Microbiology and currently pursuing his degree of Doctor of Science (D.Sc.) in Medical Microbiology. He and his research team first documented the first evidence of the leptospiral infection under Australis serogroup of Ballico strain in 2001 under the guidance of Dr. K. Natarajaseenivasan (Bharathidasan University). He also received fellow awards including Fellow in Society of Applied Biotechnology (FSAB), Fellow in International Science Congress Association (FISCA) and Fellow of Association of Nanotechnological Applications (FANTA).

He is a member of Indian Leptospirosis Society (ILS), International Leptospirosis Society, Research Gate India, Indian Association of Applied Microbiologists, Indian Association of Public Health, Indian Association of Hospital Infection Control and Internet Medical Society. He is the Principal investigator of the various funding research including ICMR, CSIR, DRDO, UGC etc. He received various awards including GEM of Alternative Medicine, Mahavir Jain Award for Clinical studies, Best Teacher Awards, Ranbaxy Clinical Award for Young Scientists, Best Researcher Award, Academic year Achievement Award, Best Scientific Speaker Award 2010 and Emerging Medical Speaker Award 2017, Award of Excellence in Microbiology and Dr. APJ Abdul Kalam Award for Scientific Excellence etc.

He published more than 120 research articles in various peer reviewed international and national journals extensively on the epidemiology, prevention and biomedical research and risk factor issues in leptospirosis. He is expert member of the Board of studies for the Department of Medical Microbiology, Biotechnology, Basic Biomedical Sciences and Nanotechnology of various Universities throughout the country; Member, Research Board – Medical and Health Sciences, External Examiner for theory and practicals of various Universities; Ph.D examiner and Selection committee member for research programme.

He organized more than 60 national and international conferences, seminars, symposia, CMEs and workshops and participated as guest speaker in more than 70 national and international level scientific meetings including conferences. His areas of special interest are Antimicrobial Resistance Surveillance, HIV/AIDS along with tuberculosis and candidiasis, Optimize the usage of antimicrobial agents, Silver nanotechnology related to formulate post operative or traumatic dressings, Fungal nanoparticle formulation and its assessment, Study of the incidence rate of leptospirosis in both humans and animals, Understanding the pathological phenomena of Leptospirosis, HIV pathology and Haematological strategies, Tuberculosis management using nanotechnological principles, Screening of medicinal herbs and animal products (feathers and slough), Introducing the Novel protective measures in infection control practices (medical dressings) and analysis of urine crystals compared with UTI.

Some of his publications of highlights are

1. **Prabhusaran N**, Rajajeyakumar M. Scenario of leptospiral vaccines for humans and animals. International Journal of Vaccines and Immune System 2017; 1: 21-23.
2. Manivannan L, Rajajeyakumar M, **Prabhusaran N**, Elangovan R, Sundhararajan A. Effect of yoga and aerobic exercises on selected red blood cells and mean arterial blood pressure among obese men. European Journal of Biomedical and Pharmaceutical Sciences 2017; 4: 151-5.
3. **Prabhusaran N**, Susethira AR, Radhakrishna L, Revathi P, Jeyaseelan ST, Joseph PID. Extracellular biosynthesis of silver nanoparticles using bacterial sources and its pathogenicity inhibition assay. International J Pharma Research and Health Sciences 2016; 4: 1080-85.
4. **Prabhusaran N**, Jeyaseelan ST, Revathi P, Radhakrishna L, Joseph PID. Exploration of herbal bismuth nanoparticles using *Eclipta alba* and *in vitro* antimicrobial activity against pathogenic bacterial strains. International J Pharmacy Pharmaceutical Res 2016; 6(1): 129-139.
5. **Prabhusaran N**, Jeyaseelan TS, Sundhararajan A, Natarajaseenivasan K, Joseph PID. Clinical significance of serum hepcidin levels on early infectious complications in human leptospirosis. Journal of Pharmaceutical and Biological Sciences 2016; 4(3): 104-110.
6. Rajesh K, **Prabhusaran N**, Jesudoss A. Comparative study of surface and core microflora of chronic tonsillitis. J Medical Science and Clinical Research 2016; 4(4): 10044-9.
7. **Prabhusaran N**, Sundhararajan A, Jeyaseelan TS, Alwin AR, Natarajaseenivasan K, Joseph PID. Analysis of biochemical parameters of laboratory confirmed leptospirosis samples. Journal of Pharmaceutical and Biological Sciences 2015; 3(6): 240-244.

8. **Prabhusaran N**, Jeyaseelan S, Natarajaseenivasan K, Joseph PID. What are the risks of leptospirosis transmission from cultures to laboratory workers? – a case study. *International Journal of Current Pharmaceutical and Clinical Research* 2015; 5(4): 262-265.
9. **Prabhusaran N**, Natarajaseenivasan K, Joseph PID. Appearance of black pigments in the EMJH semisolid medium – cultural confusion. *Eur J Pharm Med Res* 2015; 2(4): 864-72.
10. **Prabhu N**, Natarajaseenivasan K, Joseph PID. Survey of leptospiral pathogens carried by rodents at different areas of Tiruchirapalli, India. *International J Extensive Res* 2015; 6: 26-31.
11. Guru T Arun, Deivam S, **Prabhu N**. Case study: behavioral symptoms of HIV Encephalopathy. *Indian Journal of Scientific Research and Technology* 2015; 3(1): 3-5.
12. Deivam S, Abirami D, **Prabhu N**, Balasubramanian N. Socio-demographic and clinical profile of HIV seropositives in tertiary care teaching hospital of South India. *International Archives of Integrated Medicine* 2014; 1(4): 42-48.
13. **Prabhu N**, Lakshika S, Revathi P, Uma A. Effect of monodispersed silver ions in cotton socks induces antimicrobial activity. *World J Pharmaceutical Sciences* 2014; 2(9): 1071-1074.
14. **Prabhu N**, Natarajaseenivasan K, Importance of serological analysis – an interpreter of identifying infecting serovar in patients with leptospirosis. *Medical Science* 2014; 8(29): 27-31.
15. **Nagarajan Prabhu**, Danialas Joseph Pushpa Innocent, Asirvatham Alwin Robert. Prevalence of *Salmonella typhimurium* infection related to street food consumption. *International Journal of Current Microbiology and Applied Sciences* 2013; 2(12): 396-403.
16. A. Uma, **N. Prabhu**, P. Thirumalaikolundusubramanian. Ophthalmic complications of dengue: Pathogenesis and prevention. *Annals of Saudi Medicine* 2013; 33(1): 82.
17. **N. Prabhu**, D. Joseph Pushpa Innocent, P. Chinnaswamy. Retrospective analysis for the cases. *Clinical Reviews and Opinions* 2010; 2(3): 31-34.
18. **Prabhu N**, Joseph Pushpa Innocent D, Chinnaswamy P. Thrombocytopenia in leptospirosis and role of oral amoxycycline and doxycycline in patient management. *International Journal of Pharmaceutical Sciences and Biotechnology* 2010; 1(1): 25-29.
19. **Prabhu N**, Joseph Pushpa Innocent D, Chinnaswamy P. Case capsules of Leptospirosis among children, Coimbatore, India. *Bombay Hospital Journal* 2009; 51(2): 296-300.
20. K. Natarajaseenivasan, **N. Prabhu**, K. Selvanayaki, SSS. Raja, S. Ratnam. Human Leptospirosis in Erode, South India: Serology, Isolation and Characterization of the isolates by Randomly Amplified Polymorphic DNA (RAPD) Fingerprinting. *Japanese Journal of Infectious Diseases* 2004; 57: 193-197.