

Profile of Dr. N. Prabhusaran Research Faculty

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Dr. Prabhusaran is affiliated to the Trichy SRM 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 degree of Doctor of Science (D.Sc.) in Medical Microbiology and submitted thesis to the University. 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, Dr. APJ Abdul Kalam Award for Scientific Excellence, Bharat Vikas Award, Best Scientist in Medical Sciences Award 2017, Medical Innovation Award 2017, Best Academician of the year 2017 and International Highest Publication Award 2018.

He published more than 140 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 40 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. Raagavendhar VB, **Prabhusaran N**, Uma A, Hemalatha K, Natarajaseenivasan K, Joseph Pushpa Innocent D. Prevalence of leptospirosis among rice mill workers in Tiruchirapalli, South India. *Annals of International Medical and Dental Research* 2019; 5(1): MB06-MB13. ISSN 2395-2614; Impact factor: 6.04.
2. Pramila M, **Prabhusaran N**, Meenakshisundaram M, Lalithambigai R, Karthik P. Antibacterial analysis of *Ocimum sanctum* mediated silver and copper nanoparticles. *International Journal of Allied Medical Sciences and Clinical Research* 2018; 6: 827-837. ISSN: 2347-6567.
3. **Prabhusaran N**, Pramila M, Anupriya A. Think before use: Sterility checking of culture plates. *GSC Biological and Pharmaceutical Sciences* 2018; 5: 82-86. ISSN: 2581-3250. Impact factor: 1.85
4. Pramila M, **Prabhusaran N**, Meenakshisundaram M, Lalithambigai R, Karthik P. Characterization of *Azadirachta indica* mediated copper and silver nanoparticles – a comparative approach. *Annals of International Journal of Medical and Dental Research* 2018; 4: MB01-MB06. ISSN: 2395-2814; Impact factor: 6.04.
5. **Prabhusaran N**, Sampath G, Sridharan M, Uma A, Pramila R. Prevalence and risk factors of *Helicobacter pylori* infection among gastric biopsies in Tiruchirapalli – one year hospital based study. *European Journal of Pharmaceutical and Medical Research* 2018; 5: 311-317. ISSN: 2394-3211; Impact factor: 4.891.

6. **Prabhusaran N**, Prabhakar YK, Pramila M, Natarajaseenivasan K, Joseph PID. Comparative analysis of immunological markers of leptospirosis and other bacterial infections among normal, high risk and unclassified categories of human flow in hospitals. *The Journal of Medical Research* 2018; 4: 140-145. ISSN: 2395-7565.
7. **Prabhusaran N**, Prabhakar YK, Pramila M, Natarajaseenivasan K, Joseph PID. Comparative analysis of immunological markers of leptospirosis and other bacterial infections among normal, high risk and unclassified categories of human flow in hospitals. *The Journal of Medical Research* 2018; 4(3): 140-145. ISSN: 2395-7565.
8. **Prabhusaran N**, Prabhakar YK, Kalimuthu R, Pramila M. Analyzing the bacteriota (Residential bacteria) from the surfaces of food processing units. *World Journal of Advance Healthcare Research* 2018; 2: 222-230. ISSN: 2457-0400; Impact factor: 3.458. ISSN: 2279-0861.
9. **Prabhusaran N**, Pramila M, Prabhakar YK. Isolation and identification of *Salmonella* from poultry meat samples – a major food borne zoonotic disease. *Indian Journal of Applied Research* 2018; 8: 95-97. ISSN: 2249-555X; Impact factor: 5.397.
10. **Prabhusaran N**, Manivannan L, Pramila M, Prabhakar YK. Knowledge, Attitude and Practice of personal hygiene, cleaning and sanitation during food processing. *European Journal of Pharmaceutical and Medical Research* 2018; 5: 455-461. ISSN: 2394-3211; Impact factor: 4.897.
11. **Prabhusaran N**, Ganeshkumar A, Pramila M, Natarajaseenivasan K, Joseph PID. Comparative analysis of *in vitro* antimicrobial activity of 5-Fluorouracil and 5-Bromouracil. *European Journal of Biomedical and Pharmaceutical Sciences* 2018; 5: 451-455. ISSN: 2349-8870; Impact factor: 4.382.
12. **Prabhusaran N**, Natarajaseenivasan K, Joseph PID. *In vitro* determination of 5-fluorouracil as a selective agent for leptospiral culture medium. *International Journal of Medical Science and Clinical Inventions* 2017; 4: 3311-3313.
13. **Prabhusaran N**, Natarajaseenivasan K, Joseph PID. Increasing trends of leptospirosis in Tamilnadu: a clinical epidemiological study – with special emphasis of molecular surveillance and diagnosis. *International Journal of Pharma Research and Health Sciences* 2017; 5: 1896-1903.
14. **Prabhusaran N**, Natarajaseenivasan K, Joseph PID. Leptospirosis among Gardeners in Tiruchirapalli, South India: Isolation, seroprevalence and molecular determination. *World Journal of Pharmaceutical and Medical Research* 2017; 3: 228-234.
15. **Prabhusaran N**, Natarajaseenivasan K, Joseph PID. Comparative analysis of efficiency of pore size and materials of filters for the isolation and purification of leptospire. *Journal of Pharmaceutical and Biological Sciences* 2017; 5: 199-203.

16. **Prabhusaran N**, Rajajeyakumar M. Scenario of leptospiral vaccines for humans and animals. *International Journal of Vaccines and Immune System* 2017; 1: 21-23.
17. **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.
18. **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.
19. **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.
20. **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.
21. **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.
22. **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.
23. **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.
24. **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.
25. **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.
26. **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.
27. A. Uma, **N. Prabhu**, P. Thirumalaikolundusubramanian. Ophthalmic complications of dengue: Pathogenesis and prevention. *Annals of Saudi Medicine* 2013; 33(1): 82.
28. **N. Prabhu**, D. Joseph Pushpa Innocent, P. Chinnaswamy. Retrospective analysis for the cases. *Clinical Reviews and Opinions* 2010; 2(3): 31-34.

29. **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.
30. **Prabhu N**, Joseph Pushpa Innocent D, Chinnaswamy P. Case capsules of Leptospirosis among children, Coimbatore, India. Bombay Hospital Journal 2009; 51(2): 296-300.
31. 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.
