

Scientist Profile

Name	Dr. R. Balaji
Designation	Scientist E (Medical)
Date of Birth	02/12/1984
Date of Joining :	27/05/2021
Date of joining present post :	27/05/2021
Discipline	Clinical Research
Address (off.) including Contact Number*	ICMR – National Institute for Research in Tuberculosis No.1, Mayor Sathyamoorthy road, Chetpet, Chennai – 600031 Ph: +91-9790765215
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* Mandatory

Educational Qualifications <i>(begin with descending order)</i>			
DEGREE	INSTITUTION AND LOCATION	YEAR(s)	FIELD OF STUDY
MD Community Medicine	Kempegowda Institute of Medical Sciences, Bangalore	2012	Community Medicine
MBBS	K.A.P. Viswanatham Govt. Medical College, Trichy	2008	Medicine

1. Research Experience – 12 years in clinical trials and field trials. Principal Investigator and Co Investigators in trials involving allergy immunotherapy, rabies vaccine trials, rotavirus vaccine trials, pentavalent vaccine trials, meningococcal vaccine and covid 19 vaccine trials. Investigator in field studies such as NFHS 5 project, NHRR project, Hospital at home for elderly project and ICMR projects
 - Safety and Clinical efficacy of Ultra-rush Allergen Specific Sublingual Immunotherapy among patients suffering from Allergic rhinitis.
 - Assessment of Quality of life among Respiratory allergy patients receiving Sublingual immunotherapy and Subcutaneous immunotherapy.
 - Safety and immunogenicity of meningococcal vaccine (Menectra) – Phase IV clinical trial.

- Post exposure prophylaxis with Purified Chick Embryo cell vaccine using TRC regimen among animal exposure cases.
- Simulated post exposure prophylaxis with PCECV among healthy volunteers
- Multicenter, Randomized, Single-Blind, Study To Evaluate The Immunogenicity, Reactogenicity & Safety Of The Live Attenuated Rotavirus Vaccine Rotavac® As A 3 Dose Series When Administered Simultaneously With Or Without The Buffering Agent Following In Healthy Infants.
- A seamless, sequential Phase III, multicenter, randomized, single-blind study to evaluate the immunogenicity, reactogenicity and safety of ROTAVAC 5C new formulations of the live attenuated rotavirus vaccine as a 3 dose series when compared with existing ROTAVAC® in healthy infants (Exploratory phase).
- A phase III bridging study to evaluate the immunogenicity and safety of a pentavalent vaccine (DTwP-HepB-PRP-T), Shan 5 (with Shanta pertussis) as compared to the licensed vaccine, Shan 5 (with imported pertussis) when administered as three dose primary series at 6-8,10-12 and 14-16 weeks of age in healthy Indian infants.
- A seamless, sequential Phase III, multicenter, randomized, single-blind study to evaluate the immunogenicity, reactogenicity and safety of ROTAVAC 5C new formulations of the live attenuated rotavirus vaccine as a 3 dose series when compared with existing ROTAVAC® in healthy infants (Confirmatory phase).
- Prevalence of adverse drug reactions among patients attending tertiary care hospital and peripheral centres
- Prevalence of Household hazardous material accidents and the factors contributing to the accidents in a rural population
- Epidemiology of a varicella outbreak in a south Indian private university.
- Comvac 4 versus Comvac 3 plus Hib vaccine comparison trial

- Rota5CM vaccine trial
- Hospitals at Home for Elderly: New Initiative in the Selected Districts of Tamil Nadu
- Study on knowledge and attitude of plagiarism among postgraduate students
- NHRR project – National Health Resource Repository project – Government of India
- National Family Health Survey (NFHS 5) – International Institute of Population Statistics, Government of India

Ongoing projects

- **mBPaL study** - Evaluate the effectiveness, safety and tolerability of various doses of Linezolid in combination with Bedaquiline and Pretomanid in Adults with Pre-Extensively Drug-Resistant (Pre-XDR), Or Treatment Intolerant/Non-responsive Multidrug-Resistant (MDRTI/NR) Pulmonary Tuberculosis in India
- A longitudinal observational study on the impact of **SARS-CoV-2 infection on Tuberculosis** disease in children and adolescents
- Multi-centric Prospective Cohort Study of TB Recurrence Free Cure Among Microbiologically Confirmed New Pulmonary Tuberculosis Patients Treated Under NTEP With the **4-month Moxifloxacin** Containing Daily Regimen

2. Membership/Fellowship of Professional Societies/Associations :

- Life Member - Indian Academy of Allergy (IAA)
- Life Member - Indian Public Health Association (IPHA)
- Life Member - Karnataka Association of Community Health (KACH)
- Life Member – Indian Association of Preventive and Social Medicine (IAPSM)
- Life Member – Association of Prevention and Control of Rabies in India (APRCI)

3. Workshops/Conferences/Symposiums :

4. Awards/Achievements : Young scientist award for best paper in biennial conference of Indian Academy of Allergy 2011.

5. Publications (Mention your Orchid/PubMed/Google Scholar profile link here, if available)

ORCID ID: <https://orcid.org/0000-0002-4727-4135>

- Parasuramalu BG, Gangaboraiah, **Balaji R**, Someswara GM. Assessment of Quality of life among Respiratory allergy patients receiving Sublingual immunotherapy and Subcutaneous immunotherapy. Indian journal of Allergy, Asthma & Immunology 2011; 25 (1):21-27.
- **Balaji R**, Parasuramalu BG, Chandregowda BV. Safety, tolerability and clinical efficacy of ultra-rush sublingual immunotherapy among patients suffering from allergic rhinitis. Allergol Immunopathol (Madr) 2014 May-Jun; 42 (3): 216-23.
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- Logaraj M, **Balaji R**, John K R, Shailendra Kumar B Hegde. Comparative Study on Risk Factors for cardiovascular Diseases between Urban and Rural Population in Tamil Nadu. National Journal of Research in Community Medicine 2014 Apr-Jun; 3(2):103-12.
- Logaraj M, Shailendra Kumar B, John KR, **Balaji R**. A study on risk factors for lifestyle diseases among patients attending fixed mobile clinic in a rural block in Tamil Nadu. Int J Health Allied Sci 2014; 3(3):199-203.
- Veena V, Ramesh Holla, Parasuramalu B G, **Balaji R**. Unmet Need for Family Planning: A Challenge to Public Health. National Journal of Community Medicine 2014 Oct-Dec; 5(4): 401-405.
- Logaraj M, **Balaji R**, John KR. Prevalence of pain among rural adults seeking medical care through medical camps in Tamil Nadu. Indian Journal of Pain 2015; 29(1): 36-40.
- Melvin G, Elangovan S, Varsha S, Karunamoorthy V, **Balaji R**, Muthukumar R, et al. Value of pentraxin-3 and galectin-3 in acute coronary syndrome: a short-term prospective cohort study. Therapeutic Advances in Cardiovascular Disease 2015: 1-10.
- Logaraj Muthunarayanan, John Kamala Russel, Shailendra Kumar Hegde, **Balaji Ramraj**. Ten Years Risk Prediction of a Major Cardiovascular Event in a Rural Block in Tamil Nadu. Heart India 2015 Apr-Jun; 3(2): 43-48.

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- Logaraj Muthunarayanan, **Balaji Ramraj**, John Kamala Russel. Prevalence of prediabetes and its associated risk factors among rural adults in Tamil Nadu. *Arch Med Health Sci* 2015;3:178-84.
- Asheeka Zainab Arif, Anandhi Lakshmanan, **Balaji Ramraj**, Muthunarayanan Logaraj, Anandhalakshmi Swaminathan. Cell Phones- The New Vehicle of Bacterial Transmission- Current Scenario. *National Journal of Laboratory Medicine*. 2015 Jul, Vol 4(3): 43-47.
- Elangovan Shanmugama, C.R. Madhu Prabhu Doss, Melvin George, Amrita Jena, Muthukumar Rajaram, **Balaji Ramraj**, Karthik Anjaneyan, B. Kanagesh. Effect of tolvaptan on acute heart failure with hyponatremia – A randomized, double blind, controlled clinical trial. *Indian Heart J.* (2015), <http://dx.doi.org/10.1016/j.ihj.2015.07.006>
- Shailendra Kumar B. Hegde, Sathiyarayanan S, Sanjana Venkateshwaran, Akshaya Sasankh, Ganeshkumar P, **Balaji R.** Prevalence of Diabetes, Hypertension and Obesity among Doctors and Nurses in a Medical College Hospital in Tamil Nadu, India. *National Journal of Research in Community Medicine* 2015 Jul-Sep; 4(3):235-239.
- M. Logaraj, R. S. Dinesh Madhavan, **R. Balaji**. Prevalence of pre hypertension and its association to risk factors for cardiovascular diseases among male undergraduate students in Chennai. *Int J Community Med Public Health*. 2016 Feb; 3(2): 542-550.
- Chinnasami B, Sadasivam K, **Ramraj B**, Pasupathy S. Knowledge, attitude and practice of parents towards antibiotic usage and its resistance. *Int J Contemp Pediatr* 2016; 3: 256-61.
- Kanimozhi Sadasivam, Balaji Chinnasami, **Balaji Ramraj**, N Karthick, A Saravanan. Knowledge, Attitude and Practice of Paramedical Staff Towards Antibiotic usage and its Resistance. *Biomedical & Pharmacology Journal* 2016; 9(1): 1-7.

- Roseline FW, **Balaji R**, Logaraj M. Anaemia and Associated Factors among School Going Adolescent Girls in Chidambaram, Tamilnadu - A Cross Sectional Study. JIMSA 2016 Jan – Mar; 29(1): 11-13.
- Sadasivam K, Nagarajan PK, **Ramraj B**, Chinnasami B, Nedunchezian K, Aiyavoo S. Cardiovascular disease risk factor knowledge assessment among medical students. Natl J Physiol Pharm Pharmacol 2016; 6(3) (Online First). DOI: 10.5455/ njppp.2016.6.20022016129.
- Rushender R, **Balaji R**, Parasuraman G. A study on effective utilization of health care services provided by primary health centre and sub-centres in rural Tamilnadu, India. Int J Community Med Public Health 2016; 3: 1054-60.
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- Thilip kumar G, Hemamalini RV, Prabhavathi K, **Balaji R**, Saravanan A, Jamuna Rani R. Assessment of Sympathetic Nerve Activity by Isometric Handgrip Test in Young Cigarette Smokers. Biomed. & Pharmacol. J. 2016; 9(2), 623-629.
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- **Balaji R**, Logaraj M, Sharmila A. How to select a topic for thesis / dissertation. Journal of Internal Medicine – Research, Reviews, Reports 2017 Jan; 5(1) (Supplement): 16 – 21.
- PB TarunTeja, V Harshavardan, **Balaji Ramraj**. Stroke Due to Left Atrial Myxoma. Journal of Case Reports 2017; 7(1): 85 – 88.
- Lavanya Rajagopal, Shivashekar Ganapathy, Sundaram Arunachalam, Veena Raja, **Balaji Ramraj**. Does Iron Deficiency Anaemia and its Severity Influence HbA1C Level in Non Diabetics? An Analysis of 150 Cases. Journal of Clinical and Diagnostic Research 2017 Feb; 11(2): EC13 – EC15.

- Lavanya Rajagopal, Sundaram Arunachalam, Shivashekar Ganapathy, **Balaji Ramraj**, Veena Raja. A comparison of Effect of Iron Deficiency Anemia on HbA1c Levels in Controlled Diabetics and Non-diabetics: A Cross Sectional Analysis of 300 Cases. *Annals of Pathology and Laboratory Medicine* 2017 Mar-Apr; 4(2): A210 – 216.
- Lavanya Rajagopal, A. Sundaram, Shivashekar, **Balaji Ramraj**. Impact of Iron Deficiency Anemia on Glycated Hemoglobin (HbA1c) Levels in Diabetics with Controlled Plasma Glucose Levels. *Annals of Pathology and Laboratory Medicine* 2017 Mar-Apr; 4(2): A148 – 152.
- Lavanya Rajagopal, **Balaji Ramraj**, Sundaram Arunachalam, Veena Raja, Shivashekar Ganapathy. Glycated Hemoglobin [HbA1C] As a Dual Marker for Glycemic Status and Dyslipidemia in Diabetics: A Cross Sectional Analysis of 450 Cases. *Indian Journal of Pathology: Research and Practice* 2017 Apr-Jun; 6(2): 415 – 420.
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- Deivasigamani Kuberan, C.RajanRushender, G. Dinesh Kumar, **R. Balaji**. Awareness, Attitude, and Practice of Exclusive Breastfeeding among Mothers Attending a Tertiary Care Hospital in Tamil Nadu. *National Journal of Research in Community Medicine* 2017 Jul-Sep; 6(3): 238-242.
- Lavanya Rajagopal, Sundaram Arunachalam, Shivashekar Ganapathy, **Balaji Ramraj**, Veena Raja. Revisiting the Role of Chronic Kidney Disease and Its Association With Anemia in Diabetics and Non-Diabetics: A Cross Sectional Audit of 450 Cases. *Annals of Pathology and Laboratory Medicine* 2017 Nov-Dec; 4(6): A742 – 48.
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- Lavanya Rajagopal, Sundaram Arunachalam, Saleh Mohammed Abdullah, Vinothkumar Ganesan, Kumerasan Kathamuthu, **Balaji Ramraj**. Can Mean Platelet Volume and Platelet Distribution Width be used as Predictive Markers for Impending Diabetic Vascular Complications? *Journal of Clinical and Diagnostic Research* 2018 Feb; 12(2): EC01-EC05.
- Lavanya Rajagopal, Vinothkumar Ganesan, Saleh Mohammed Abdullah, Sundaram Arunachalam, Kumaresan Kathamuthu, **Balaji Ramraj**. Exploring the Interrelationship between Electrolytes, Anemia, and Glycosylated Hemoglobin (HbA1c) Levels in Type 2 Diabetics. *Asian J Pharm Clin Res* 2018; 11(1): 251-256.
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- Logaraj M, Sathiyarayanan S*, **Balaji R.** Symptomatology of female patients attending mobile medical clinics in a rural block in Tamilnadu. *Asian J Pharm Clin Res*2018; 11(10): 172-178.
- Barnes CE, **Balaji R**, John KR, Logaraj M. Comparison of one versus two sputum specimens in the diagnosis of pulmonary tuberculosis. *Int J Community Med Public Health* 2018;5:3191-6.
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- Natarajan MSS, Lakshmanan A, **Ramraj B**. Awareness of diabetes and its complications among diabetes patients and their care takers attending a tertiary care hospital in Chennai suburban area. *J. Evolution Med. Dent. Sci.* 2019;8(23):1839-1842.

- Rashmi Monteiro, Shikha Sharma, **Balaji Ramraj**. Helicobacter pylori associated gastritis: A histopathological study of gastric mucosal biopsies. *International Journal of Clinical and Diagnostic Pathology* 2019; 2(2): 208-211.
- Mirunalini G, Gayathri B, Dhas M, Koka MV, **Ramraj B**. Are we glorifying the use of video laryngoscopes? A randomized control study comparing C- MAC(R) laryngoscope and McCoy blade for tracheal intubation in patients undergoing general anaesthesia with simulated immobilization of cervical spine. *Indian J Clin Anaesth* 2019;6(3):377-81.
- Samuel Cornelius Gnanadurai J., Vimala Karunanidhi S., **Balaji Ramraj**, Sathish Kumar M., Swamyraj S.V. Study of intraocular pressure and glaucoma risk in myopes and hypermetropes in middle aged adults. *Trop J Ophthalmol Otolaryngol.*2019; 4(6):388-394. doi:10.17511/jooo.2019.i06.06.
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