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| Syed Fazil Ahamed |
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| Division of Infectious Diseases, St, John’s Research Institute,  Opp. BDA Complex, Koramangala, Bangalore - 560 034 |

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| PROFESSIONAL SUMMARY |
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# Master of Science in General Microbiology from Madurai Kamaraj University, India.

# 14 years of experience in the field of Infectious diseases research and diagnostics in various research projects funded by international organizations.

# Expertise in Molecular biological, Immunological and Microbiological techniques/assays for Infectious Diseases.

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| **EDUCATIONAL QUALIFICATIONS** |
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| **Degree** | **Specialization** | **Institute/University** | **Year of Passing** | **Class** |
| PhD  (Pursuing) | Dengue Virology | St. John’s Research Institute/The University of Trans-Disciplinary Health Sciences and Technology, Bangalore, India | Yet to submit thesis | - |
| MSc | Microbiology | A.N.J.A College (Autonomous),  Madurai Kamaraj University,  Madurai, India. | 2005 | 1st |
| BSc | Microbiology | G.R.D College of Science,  Bharathiar University,  Coimbatore, India. | 2003 | 1st |

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| **ACHIEVEMENTS** |
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* Recipient of Annual Travel Award-2018 from the American Society of Tropical Medicine and Hygiene (ASTMH).
* Best poster presentation award, “Biomarker signatures for diagnosis of Tuberculosis”, 2nd Annual Research Day, St. John’s Research Institute, Bangalore, India. Feb 3rd-4th, 2020.
* Best poster presentation award, “Molecular characterization of Dengue viruses during 2012-15 epidemic in southern India”, National Virology Conference, Christian Medical College, Vellore, India. July 21st-22nd, 2017.
* Played a key role in NABL accreditation for Molecular testing of COVID-19.
* Qualified with 1st rank in Karnataka State level PhD entrance examination conducted by University of Mysore during February 2016 (Subject: Microbiology; Registration no.: 1002705)

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| LIST OF PUBLICATIONS |
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1. **Ahamed SF,** Rosario V, Britto C, Dias M, Nayak K, Chandele A, Kaja MK, Shet A. Emergence of new genotypes and lineages of dengue viruses during the 2012–15 epidemics in southern India. ***International Journal of Infectious Diseases.*** 2019 Jul 1;84:S34-43.
2. Gunisetty S, Nayak K, RaiRC, Reddy ES, Aggarwal C, Chawla Y, MaheshwariD, PandaH, AnsariNA, SinghP, Kaur M, Dixit K, Sharma P, Bhatnagar P, PriyamvadaL, Bhaumik SK, **Ahamed SF et al.,** Analysis of dengue specific memory B cells, neutralizing antibodies and binding antibodies in healthy adults from India. ***International journal of infectious diseases.*** 2019 Jul 1;84:S57-63.
3. **Ahamed SF**, Vivek R, Kotabagi S, Chandele A, Khanna I, Khanna N, Nayak K, Dias M, Kaja MK, Shet A. Enhancing the sensitivity of Dengue virus serotype detection by RT-PCR among infected children in India. ***Journal of Virological Methods***. 2017 Feb 28;244:46-54.
4. Vivek R, **Ahamed SF**, Kotabagi S, Chandele A, Khanna I, Khanna N, Nayak K, Dias M, Kaja MK, Shet A. Evaluation of a pan-serotype point-of-care rapid diagnostic assay for accurate detection of acute dengue infection. ***Diagnostic Microbiology & Infectious Disease.*** 2016 Sep 30. pii: S0732-8893(16)30319-4
5. Hegde AV, **Ahamed SF**, Sunny A, Vivek R, Anthony R. *H. Pylori* in gall bladder: the answer to the Indian divide? ***Tropical Gastroenterology***. 2017 Jun 22;38(2):108-14.
6. Mehta S, Yu EA, **Ahamed SF,** Bonam W, Kenneth J. Rifampin resistance and diabetes mellitus in a cross-sectional study of adult patients in rural South India**.** [***BMC Infectious Diseases*.**](http://www.ncbi.nlm.nih.gov/pubmed/?term=Rifampin+resistance+and+diabetes+mellitus+in+a+cross-sectional+study+of+adult+patients+in+rural+South+India) 2015 Oct 26;15:451.
7. Cecilia S. Arlehamn L, Sidney J, Ravi Kolla, Carpenter C, Nayak K, Tomikaya H, Rozot V, **Ahamed SF**, *et al*.,.A side-by-side comparison of T cell reactivity against fifty-nine tuberculosis antigens in a diverse set of locations spanning four different continents.[***Tuberculosis*** (Edinb).](http://www.ncbi.nlm.nih.gov/pubmed/?term=A+side-by-side+comparison+of+T+cell+reactivity+against+fifty-nine+tuberculosis+a) 2015 Dec;95(6):713-21
8. [Nayak K](http://www.ncbi.nlm.nih.gov/pubmed/?term=Nayak%20K%5BAuthor%5D&cauthor=true&cauthor_uid=25857935), [Jing L](http://www.ncbi.nlm.nih.gov/pubmed/?term=Jing%20L%5BAuthor%5D&cauthor=true&cauthor_uid=25857935), [Russell RM](http://www.ncbi.nlm.nih.gov/pubmed/?term=Russell%20RM%5BAuthor%5D&cauthor=true&cauthor_uid=25857935), [Davies DH](http://www.ncbi.nlm.nih.gov/pubmed/?term=Davies%20DH%5BAuthor%5D&cauthor=true&cauthor_uid=25857935), [Hermanson G](http://www.ncbi.nlm.nih.gov/pubmed/?term=Hermanson%20G%5BAuthor%5D&cauthor=true&cauthor_uid=25857935), [Molina DM](http://www.ncbi.nlm.nih.gov/pubmed/?term=Molina%20DM%5BAuthor%5D&cauthor=true&cauthor_uid=25857935), [Liang X](http://www.ncbi.nlm.nih.gov/pubmed/?term=Liang%20X%5BAuthor%5D&cauthor=true&cauthor_uid=25857935), [Sherman DR](http://www.ncbi.nlm.nih.gov/pubmed/?term=Sherman%20DR%5BAuthor%5D&cauthor=true&cauthor_uid=25857935), Kwok WW, [Yang J](http://www.ncbi.nlm.nih.gov/pubmed/?term=Yang%20J%5BAuthor%5D&cauthor=true&cauthor_uid=25857935), [Kenneth J](http://www.ncbi.nlm.nih.gov/pubmed/?term=Kenneth%20J%5BAuthor%5D&cauthor=true&cauthor_uid=25857935), **Ahamed SF**, [Chandele A](http://www.ncbi.nlm.nih.gov/pubmed/?term=Chandele%20A%5BAuthor%5D&cauthor=true&cauthor_uid=25857935), [Murali-Krishna K](http://www.ncbi.nlm.nih.gov/pubmed/?term=Murali-Krishna%20K%5BAuthor%5D&cauthor=true&cauthor_uid=25857935), [Koelle DM](http://www.ncbi.nlm.nih.gov/pubmed/?term=Koelle%20DM%5BAuthor%5D&cauthor=true&cauthor_uid=25857935).. Identification of novel Mycobacterium tuberculosis CD4 T-cell antigens via high throughput proteome screening. [***Tuberculosis*** (Edinb).](http://www.ncbi.nlm.nih.gov/pubmed/?term=Identification+of+novel+Mycobacterium+tuberculosis+CD4+T-cell+antigens+via+high+throughput+proteome+screening) 2015 May;95(3):275-87.

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| **CONFERENCE PRESENTATATIONS** |
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1. Dias M, **Ahamed SF**, Sivanandan RN, D’Souza G, Ahuja VK, Kumar N, Kaur P, Narayanan S, Shandil RK. Novel biomarker signatures for the diagnosis of tuberculosis in India. 74th National conference of TB and Chest Diseases (NATCON), Chennai, India. December 21st-22nd, 2019.
2. **Ahamed SF**, Vivek R, Chandele A, Nayak K, Dias M, Kaja MK, Shet A. “Emergence of new genotypes and lineages of Dengue viruses during 2012-15 epidemic in southern India”. The American Society of Tropical Medicine and Hygiene (ASTMH) 67th Annual Meeting, New Orleans, Louisiana, United States. October 28th-November 1st, 2018.
3. **Ahamed SF**, Vivek R, Chandele A, Nayak K, Dias M, Kaja MK, Shet A. “Molecular characterization of Dengue viruses during 2012-15 epidemic in southern India”, National Virology Conference. Christian Medical College, Vellore, India. July 21st-22nd, 2017.
4. **Ahamed SF**, Vivek R, Kotabagi S, Chandele A, Khanna I, Khanna N, Nayak K, Dias M, Kaja MK, Shet A. “Maximizing detection of dengue virus serotypes by a modified reverse transcription polymerase chain reaction assay in India: presence of co-infection with multiple serotypes”**.** 17th International Conference on Infectious Diseases, Hyderabad, India. March 2nd-5th, 2016.

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| **ABSTRACT SUBMISSIONS IN CONFERENCES** |
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1. Nayak K, Gunisetty S, Verma A, Aggarwal C, Maheshwari D, Panda HK, **Ahamed SF**, Ansari NA, Singla M, Ray P, Lodha R,Kabra S, Chandele A, Kaja MK. “Evaluation of chikungunya and dengue specific neutralizing antibodies in healthy subjects from India**”.** Keystone symposia on Vaccinology, London (2016).
2. Kenneth J, Finkelstein JL, **Ahamed SF**, Yu EA, Mehta S. Tuberculosis Drug Resistance and the Utility of GeneXpert System in an Urban Setting in India – Presented at the 62nd American Society of Tropical Medicine and Hygiene Annual Meeting, Washington, DC, US (2013).
3. Nelson J, Mahelai D, Hessling AC, Kenneth J, Bennet S, Doherty M, Pai M, **Fazil S**, Vaz M, Grewal HMS and TB Trials Study Group. A comparison of the QuantiFERON TB In-Tube with the tuberculin skin test for the diagnosis of TB infection in infants in India. 4th Conference on Global Health and Vaccination Research (GLOBVAC), Oslo, Norway (2009).

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| **RESEARCH EXPERIENCE** |
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* **PhD thesis title (Ongoing):** Dengue Infections in India – Molecular detection, epidemiology and anti-dengue efficacy of an Indian polyherbal formulation.
* **MSc thesis title (2005):** Isolation and Characterization of Mosquito Toxic Polypeptides from the Bacteria *Bacillus thuringeinsis* serovar *israelensis* and *Bacillus sphaericus* – (From December 2004 to April 2005) at Vector Control Research Centre (ICMR), Pondicherry.

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| **WORK EXPERIENCE** |  |
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**Senior Research Fellow** – **Division of Infectious Diseases, St. John’s Research Institute, Bangalore, India (November 2014 – Till Date)**

Handing the following studies since November 2014,

1. *Clinical validation of flow cytometry-based assay for TB diagnosis. (ongoing)*
2. *Biomarker signatures for diagnosis of Tuberculosis. (ongoing)*
3. *A multi-centric observational study to examine replicative fitness and pathogenic properties of the emerging new viral strains of HIV-1 in India. (ongoing)*
4. *Comparison of different primer sets for the mlecular detection of dengue virus (DENV) serotypes. (completed)*
5. *Molecular characterization of dengue virus (DENV) serotypes (circulating in Bangalore, Karnataka and neighboring areas of Andhra Pradesh and Tamil Nadu) using sequencing and bioinformatic tools. (completed)*
6. *In vitro anti-dengue efficacy of ‘Nilavembu kudineer’, an Indian polyherbal formulation, using cell-based NS1 antigen release and flow cytometry neutralization assays. (completed)*
7. *Assessing the presence of specific biomarkers in blood from patients with dengue infection for the prognosis of mild and severe dengue disease. (completed)*

**Consultant** – **TB diagnosis, Lady Willingdon State TB Cell project, St. John’s Health Innovation Foundation, Bangalore, India (May 2019 – Till Date)**

* *Processing of pulmonary/extra-pulmonary samples, TB molecular testing, analyses, interpretation, and reporting*

**Consultant** – **COVID-19 diagnosis, St. John’s Laboratory Services, Bangalore, India (May 2020 – Till Date)**

* *Processing of respiratory samples, COVID-19 molecular testing, analyses, interpretation, and reporting to SJLS.*

**Research Associate** – **Division of Infectious Diseases, St. John’s Research Institute, Bangalore, India (November 2010 – November2014)**

Handling the following projects simultaneously from Nov 2010 to Nov 2014,

1. *Product validation study of a 4th Generation QuantiFERON TB assay using blood from patients with suspected TB disease.* (2011-2014)
2. *Screening of Mycobacterium tuberculosis peptides using ELISPOT assay for potential vaccine candidates.* (2013)
3. *Evaluation of GeneXpert on the diagnosis of tuberculosis.* (2012)
4. *Cost effective multiplex assay for prediction and tracking of STIs in India.* (2011)

**Research Assistant** – **Division of Infectious Diseases, St. John’s Research Institute, Bangalore, India (June 2006 – October 2010)**

Assisted in the following epidemiological studies from June 2006 to Oct 2010,

1. *Epidemiological studies on TB disease and TB infection in adolescence and neonates in Palamaner taluk, south India.* (2007-2010)
2. *Evaluation of protective antibodies to HBV and estimating exposure to HBV among high risk health care workers.* (2007-2008)
3. *General population survey of Sexually Transmitted Infections.* (2006-2007)
4. *Integrated Biological and Behavioral Assessment (IBBA).* (2006-2007)
5. *Etiology of Sexually Transmitted Infections in selected sites in Karnataka, India.* (2006-2007)

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| **PROFESSIONAL TRAININGS/WORKSHOPS** |
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* COVID-19 molecular testing, analyses, interpretation, reporting, biosafety and biomedical waste management from NIMHANS, Bangalore. (22nd April 2020)
* Workshop on “Scientific Validation, Promotion and Development of Siddha Medicine” organized by AU-KBC Research Centre and Ministry of AYUSH, Anna University, MIT Campus, Chennai. (23rd to 28th March 2017)
* 32nd Winter School on “Functional and Integrative Genomics” conducted by UGC-Networking Resource Centre for Biological Sciences, Madurai Kamaraj University, Madurai. (18th to 31st January 2017)
* Workshop on Theory and Practice of Epidemiology and Biostatistics conducted by Division of Epidemiology and Population Health; St John's Research Institute, Bangalore. (11th to 20th July 2016)
* Training on ‘Application of Bioinformatics in Genome Analysis’ offered by Bioinformatics centre, Tamil Nadu Veterinary and Animal Sciences University, Chennai. (8th to 12th August 2016)
* Overview of Ayurveda - Online course offered by National Library of Ayurveda Medicine. (Aug to Nov 2016)
* Participated in the “Medical Writing” workshop conducted by BMJ. (2015)
* Underwent “Clinical Trial Management Course” conducted by Division of Clinical Trials, St. John’s Medical College & Research Institute, Bangalore. (2013)
* Completed Hands on “Basic Flow Cytometry course” at Centre for Cellular & Molecular Platforms, National Centre for Biological Sciences, Bangalore. (2011)
* Undertook training on “ELISPOT” for the diagnosis of TB infection from Oxford Immunotech, UK. (2008)
* Underwent training on “Mycobacteriology and Immunology” at the Aeras TB study laboratory, Palamanar (Andhra Pradesh). (2007)

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| **PERSONAL PROFILE** |
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Name : SYED FAZIL AHAMED. S

Father’s name : Shabiulla

Age & Date of Birth : 37 yrs, 28-Feb-1983

Gender : Male

Nationality : Indian

Marital Status : Married, one child

Languages Known : English, Tamil, Kannada, Telugu, Malayalam and Hindi

Permanent Address : 239-A, Seetakathi 9th street,

Sammandapuram,

Rajapalayam - 626 117. Tamil Nadu, India

**REFERENCES**:

**Dr. Anita Shet, MD, PhD (PhD supervisor)**

Associate Scientist,

International Vaccine Access Center,

Johns Hopkins Bloomberg School of Public Health,

415 N Washington St, Baltimore - 21231, USA

Email: [ashet1@jhu.edu](mailto:ashet1@jhu.edu)

**Dr. Mary Dias, MD**

Professor & Vice Dean,

Division of Infectious Diseases/Dept. of Microbiology,

St, John’s Research Institute/St. John’s Medical College Hospital,

St. John’s National Academy of Health Sciences,

Opp. BDA Complex, Koramangala, Bangalore - 560 034, India

Email: mary.dias@stjohns.in

**Dr. Anmol Chandele, PhD**

Group Leader,

**ICGEB-EMORY Vaccine Program,**

International Centre for Genetic Engineering and Biotechnology  
Aruna Asaf Ali Marg, New Delhi - 110 067, India

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