

## Publications

- Vigneswari E, Cleetus C, Minna C, Kathiravan T, Naryanan P, Soundravally R, **Agieshkumar.B\*** Endogenous gene selection for relative quantification PCR and IL6 transcript levels in the PBMC's of severe and non-severe dengue cases' **BMC research note**::201811:550: <https://doi.org/10.1186/s13104-018-3620-2>\*Corresponding author
- Cleetus C, Daisy M, Krishnaraj, Amrit, **Agieshkumar.B\***, Soundravally. Lipid Peroxidation, DNA damage and apoptosis in Dengue Fever. **IUBMB Life**2018. doi: 10.1002/iub.1925\*Corresponding author
- Cleetus C, Vijayakumar R, Kadhiraavan T, Narayanan P, Parija SC, **Agieshkumar B Pillai \***, Soundravally R \* Differential expression of NADPH oxidase-2 (Nox-2) and nuclear factor-erythroid 2-related factor 2 (Nrf2) transcripts in peripheral blood mononuclear cells isolated from dengue patients. **Virus Disease**: 2017Mar; 28(1): 54–60.
- Cleetus C, Vijayakumar R, Kadhiraavan T, Narayanan P, Parija SC, **Agieshkumar B Pillai \***, Soundravally R \* A study on gene expression profile of endogenous antioxidant enzymes: CAT, MnSOD and GPx in dengue patients. Indian **J ClinBiochem**: 2017., 32(4):437-445 (2 Citation)
- **Pillai, Agieshkumar**, Mitra, A, SL, Hoti; Nagarajan, Usha; Rajendran, Soundravally; Krishnan, Umamaheswari, MisraRakesh RNA interference in mosquito vectors: An overview of RNAi in understanding mosquito immune responses, dsRNA delivery systems and potential applications in vector control. : **Insect MolBiol**2017 Apr;26(2):127-139 (6 Citations)
- Sarayu G, **Agieshkumar B Pillai**, Vijayakumar SR, Kadhiraavan T, Rahul D, James Kah, Soundravally R Increased serum levels of macrophage activation marker sCD163 in Dengue patients: **J ClinVirol**.2017. 86:62-67 (IF 3.02)
- Angelin AJM, Prabhat, **Agiesh Kumar B**, Soundravally R, Narayanan P,Pooja D. CSF Ferritin and Albumin Index: Potential candidates for scoring system to differentiate between bacterial and viral meningitis in children. **Biomarkers** 2016,21(5) : 424-428 (3 Citation)
- Sophia, Vijayakumar, Uma maheswari Krishnan, **Agieshkumar.B\***, Soundravally.R<sup>1\*</sup> Inhibition of platelet aggregation by the leaf extract of *Carica papaya* uring dengue infection: **Viral Immunology** 2016 Apr;29(3):164-8 -Equal contribution authors (5 Citations)
- Nagarajan U, Pakkiriswami S, **Pillai BA**. Sugar tags and tumorigenesis. **Front Cell Dev Biol**. 2015; 3: 69, doi: [10.3389/fcell.2015.00069](https://doi.org/10.3389/fcell.2015.00069) (3 Citations)
- Soundravally R\*, Sherin Jacob, **Agieshkumar.B**, Daisy mariyasamadanam I, Cleetus C C, Narayanan, Kadhiraavan. Sujatha. S, HarichandrakumarK.T. Serum levels of copper and iron in

dengue infection:**Revista do Instituto de Medicina Tropical de São Paulo**2015 Jul-Aug; 57(4): 315–320.(8 citations)

- ThavarajVivekanand, PerumalVinoth,**B. Agieshkumar**, NatarajanSampath, ArumugamSudalai, J. Carlos Menéndezd and VellaisamySridharan V. Highly efficient regioselective synthesis of spiro-indoline-3,4'-pyridines via a tandem enamine formation-Michael addition-cyclization sequence under catalyst- and solvent-free conditions.., **Green Chemistry** (Green Chem., 2015, 17,3415)-IF: 8.92 (20 citations)
- SoundravallyRajendran\*, **AgieshkumarBalakrishnaPillai** \*, Daisy mariyasamadanam, Sherin Jacob, CC Cleetus,Ferritin levels predict severe dengue:**Infection**( 2015 Feb;43(1):13-9. \* Equal contribution, Corresponding author)-IF: 2.8 (13 Citations)
- Soundravally R, Hoti SL, Patil SA, Cleetus CC, Zachariah B, Kadiravan T, Narayanan P, **Agiesh Kumar. B\***: Association between proinflammatory cytokines and lipid peroxidation in patients with severe dengue disease around defervescence: **Intl J Inf dis** 2014 Jan;18: 68-72. IF: 3.4 (39 Citations)
- **AgieshBalakrishnaPillai**, Wei Xu, Zhang Ou and Kai Zhang Sphingolipid Degradation in *Leishmania (Leishmania) amazonensis*;**PLOS Neglected Tropical Diseases** Dec, 2012, 6(12): e1944. doi:10.1371/journal.pntd.0001944 (8 citations)
- Zhang Ou,Weixu, **AgieshBalakrishnaPillai** and Kai Zhang, Developmentally regulated sphingolipid degradation plays multiple roles during Leishmania life cycle. **PLOS ONE**- 2012, Jan (PLOS ONE 7(1): e31059. doi:10.1371/journal.pone.0031059): (8 Citations)
- Paily KP, Geetha, **B. Agiesh Kumar** Transtadial transmission of *Bacillus sphaericus*in *Culexquinquefasciatus*and its effect on the development of the filarial parasite,*Wuchereriabancrofti*–**Parasitology Research**, June 2012, Volume 110, Issue 6, pp 2229-2235: (8 Citations)
- **Agiesh Kumar. B** and Paily,KPUp-regulation of Lipophorin (Lp) and Lipophorin Receptor (LpR) gene in the mosquito,*Culexquinquefasciatus*, infected with the filarial parasite, *Wuchereriabancrofti*. **Parasitology Research**, 2011 Feb;108 (2):377-81. (3 Citations)
- **Agiesh Kumar. B** and Paily,KPIdentification of immune responsive genes produced in *Culexquinquefasciatus* after infection with *W. bancrofti*.**Medical & Veterinary entomology**, 2008, 22: 392-398: (Citations-12)
- **Agiesh Kumar. B** and Paily,KPActin protein up-regulated upon infection and development of the filarial parasite, *Wuchereriabancrofti* (Spirurida: Onchocercidae), in the vector mosquito, *Culexquinquefasciatus* (Diptera: Culicidae).. **Experimental Parasitology** 118 (2008) 297–302 (Citations 6)

- Paily KP, **Agieshkumar. B**, Balaraman. K. Transferrin in the mosquito, *Culexquinquefasciatus* say (Diptera: Culicidae), up-regulated upon infection and development of the filarial parasite, *Wuchereriabancrofti*(Cobbold) (Spirurida: Onchocercidae) **Parasitology Research** (2007) 101:325-330 (Citations 22)
- Paily KP, Abidha, **Agieshkumar.B**and.Balaraman.K Changes in heamocyte population of *Culexquinquefasciatus*,following infection with the parasite, *Wuchereriabancrofti*. Journal of Medical& Veterinary entomology (2005) 19,116-118 (Citations: 12)

#### **Publication (Inhouse- SBV):**

- **Agieshkumar B**, Elanthriyan S. Genome editing tools and its potential applications in translational medicine – A brief overview. Ann SBV. 2016; 5:15-19.

#### **Book Chapters:**

- Nanobiotechnology perspectives: Role of Nanobiotechnology in Medical and Dental health. Prabhanjana KV, Manoharan PS, Soundravally R, Agieshkumar.B\* Biotechnology in India: Initiatives and accomplishments: Editors: Niladri Bag, RamarMurugan and Arundhati Bag Publisher: New India Publishing Agency (NIPA), New Delhi ISBN: 9789385516030
- Agieshkumar.B, Daisy S, Soundravally.R. Sphingolipids in the pathogenesis of Dengue: Vectors and Vector borne diseases: Pathobiologicalinsights,Public health challenges and Management Strategies.. Bloomsbury Publishers: Pg:5 (Abstract)
- Bacteria causing Gastro intestinal infections: Overview of bacterial types, mode of infection, challenges in diagnostics methods and Treatment. Vinoth B, Krishnaraj, Agieshkumar.B- "Pocket Guide to Bacterial Infections" A part of "Pocket Guide to Biomedical Sciences" by CRC Press- Taylor & Francis Group. (In Press)

#### **Oral/Poster presentations: (Selected)**

- Sphingolipids in the pathogenesis of dengue: 13<sup>th</sup>Conf on vectors and vector borne disease, Chennai: 27<sup>th</sup> feb-1<sup>st</sup> Mar 2017: Won Best Oral presentation award
- Nanotechnology in gene silencing and control of dengue vector mosquito –Next generation vector control tools at National conference on conference on Medical Arthropodology, organized by "Sir Ronald Ross Institute of Parasitology" Osmania University: 20-21<sup>st</sup> August, 2016.- Awarded Dr.Reuben award for best poster.

- Krishna Raja M, Cleetus C Agieshkumar B, SoundravallyRajendiran. "Cyclooxygenase-1 (Cox-1) transcript level in Peripheral blood mononuclear cells (PBMC's) of dengue patients" Symposium on RNA viruses- India-EMBO on 28th-30th March, 2018. organized by THSTI, New Delhi- Supported by Wellcome-Trust- DBT India Alliance.
- Association between proinflammatory cytokines and lipid peroxidation in patients with severe dengue disease around defervescenceR.Soundravally \*...**AgieshKumar.B** \* at Frontiers in Modern Biology-2013' 15-16 June,2013, Department of Biochemistry, Indian Institute of Science,
- Ultrastructuralimmunolocalization of cuticle proteins of *An.gambiae*- Laura vannini, **Agiesh Kumar**. Presented at "Symposium on Arthropod genomics" Kansas city, USA.June 9-11, 2011.
- Sestrins role in the Parasite Leishmania- Daniels, C., Zhang, K., **Kumar, A., Pillai, B.**, and Xu, W. Biology, Texas Tech University, Undergraduate research conference-April 11-15, 2011
- Sphingolipid degradation in *Leishmania virulence*"- Wei Xu, Ou Zhang, **AgieshPillai**, Lynn Soong and Kai Zhang. Presented at "Molecular parasitology" meet 2010, Woodshole, USA.
- Infection and immunity in insect vectors to Eukaryotic parasites" **Agiesh Kumar. B** and Paily KP at 4<sup>th</sup> Indo-Australian conference on Biotechnology, 7-9<sup>th</sup> May 2007, Queens land Institute of Medical Research, Brisbane, Australia.