

SARAVANAN SUBRAMANIAN

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A. Education

- 2018-Till date **Research Scientist** "Evaluating the cellular and molecular mechanism of scattered IEC apoptosis mediated necrosis and inflammation in Necrotizing Enterocolitis" Stanley Manne Children's Research Institute, Ann and Robert H. Lurie Children's Hospital of Chicago, Chicago, Illinois, USA.
- 2014-2018 **Post-Doctoral Research Fellow** "Identifying a key inflammatory biomarker for the pathogenesis of obesity induced insulin resistance" Creighton University, Omaha, Nebraska, USA.
- 2009-2014 **Ph.D.** (Biotechnology). "Immunomodulatory and Anti-arthritis potential of swertiamarin from *Enicostema axillare* (Lam), A. Raynal., using *in silico*, *in vitro* and *in vivo* experimental models" Loyola College, University of Madras, Tamilnadu, India.
- 2007-2009 **M.Sc.**, (Biotechnology). Loyola College, University of Madras, Tamilnadu, India
- 2004-2007 **B.Sc.**, (Biotechnology). Sri. Paramakalyani College, Manonmaniam Sundaranar University, Tamilnadu, India.

B. Research Highlights

I have focused to elucidate the role of inflammation in the pathogenesis of human diseases including rheumatoid arthritis, obesity, diabetes, and cancer. I have involved in many research fields such as immunology, pharmacology, and molecular biology. I have fundamental knowledge of genetic mouse models. I received training in biomedical research during my M.Sc project work at Central Drug Research Institute, India, where I have learned *in vitro* techniques to isolate and handle osteoblast cells (Mesenchymal stem cells) from calvaria of mice, osteoclast cells (Hematopoietic stem cells) from bone marrow of mice under aseptic conditions. In addition, I have learned *in vivo* techniques to handle mice and rats specifically ovariectomized to induce osteoporosis in female rats. In my doctoral studies at University of Madras, India, I evaluated the molecular role of bioactive agents for the management of human diseases with special emphasis on rheumatoid arthritis (RA). My interest in immunological-based arthritis diseases motivated me to identify the cytokines mediated intracellular signaling apoptosis and inflammatory molecular pathways as targets of anti-inflammatory agents by using *in silico* (Auto docking), *in vitro* and *in vivo* approach for the management of RA. I have experience in working with animal models (mice and rats) and with various *in vitro* cell system models. During my post-doctoral duration at

Creighton University, I applied my knowledge and expertise in the various aspect of immune-biology in obesity and diabetes human subjects. I have also involved on insulin resistance model in Yucatan micro swine emphasis on the role of inflammatory cells and protein kinases. My key publications to support our hypothesis are provided. Recently, I have been offered a research position at the Laboratory of Center for Intestinal and Liver Inflammation Research, Stanley Manne Children's Research Institute, Chicago to study the cellular and molecular mechanism of scattered IEC apoptosis mediated necrosis and inflammation in Necrotizing enterocolitis (NEC). To better understand the mechanism of IFN- γ - mediated sensitizing intestinal epithelial cells to necroptosis and inflammation, I am working in unique triple-transgenic (3xTg) mouse model.

C. Honors and Recognitions

- 2018-present **Co-Investigator** in ongoing research projects which are focused on exploring insights into mechanisms of inflammation and intestinal tissue injury and supported by federal funding agencies including the NIH and VA.
- 2013-2014 **Senior Research Fellow** (Indian Council of Medical Research), Division of Ethnopharmacology, Entomology Research Institute, Loyola College, Chennai, India.
- 2013 **Young Achiever Award**, Pondicherry Centre for Biological Sciences, Pondicherry, India.
- 2011-2013 **Senior Research Fellow** (Indian Council of Medical Research), Division of Ethnopharmacology, Entomology Research Institute, Loyola College, Chennai, India.
- 2010-2011 **Junior Research Fellow** (Indian Council of Medical Research), Division of Ethnopharmacology, Entomology Research Institute, Loyola College, Chennai, India.

D. Membership in Associations

- 2020-present Editorial Board: Global Journal for Pharma and Allied Sciences
<http://journalforpharma.com/editorial.html>
- 2019-present Editorial Board: Mediators of Inflammation
<https://www.hindawi.com/journals/mi/editors/>
- 2019-present Editorial Board: International Journal of Inflammation
<https://www.hindawi.com/journals/iji/editors/>
- 2018-present Editorial Board: World Journal of Pharmaceutical Research
https://wjpr.net/index.php/dashboard/editorials_board
- 2018-present Editorial Board: Microbes and Immunology Research
<https://ospopac.com/journal/microbes-and-immunology-research/board-members/2>
- 2018-present Editorial Board: World Journal of Pharmacy and Pharmaceutical Sciences
https://www.wjpps.com/wjpps_controller/editorials_board

E. Publications

1. Bu H-F, **Subramanian S**, Geng H, Wang X, Liu F, Chou PM, Du C, De Plaen IG, Tan X-D. MFG-E8 Plays an Important Role in Attenuating Cerulein-Induced Acute Pancreatitis in Mice. *Cells*. 2021 Mar 25;10(4):728. **Impact Factor 6.600**
2. Geng H, **Subramanian S**, Wu L, Bu H-F, Wang X, Du C, De Plaen IG, Tan X-D. SARS-CoV-2 ORF8 Forms Intracellular Aggregates and Inhibits IFN γ -Induced Antiviral Gene Expression in Human Lung Epithelial Cells. *Frontiers of Immunology*. 2021 Jun 9; 12:679482. **Impact Factor 6.429**
3. Cui Q, Wang C, Liu S, Du R, Tian S, Chen R, Geng H, **Subramanian S**, Niu Y, Wang Y, Yue D. YBX1 knockdown induces renal cell carcinoma cell apoptosis via Kindlin-2. *Cell Cycle*. 2021 Nov; 20(22): 2413-2427. **Impact Factor 3.304**
4. **Subramanian S**, Geng H, Tan XD. Cell death of intestinal epithelial cells in intestinal diseases. *Acta Physiologica Sinica* 2020 June 25; 72(3): DOI: 10.13294/j.aps.2020.0039. **Impact Factor 0.35**
5. Hairul Islam MI, Arokiyaraj S, Kuralarasam M, Kumar VS, Harikrishnan P, **Saravanan S**, Ashok G, Muthiah C, Bharanidharan R, Muralidaran S, Thirugnanasambantham K. Inhibitory potential of EGCG on *Streptococcus mutans* biofilm: A new approach to prevent Cariogenesis. *Microbial Pathogenesis* 2020 Mar 10; 143:104129 **Impact Factor 1.48**
6. Raj Christian, SD., Thirugnanasambantham, K., Islam, MIH., Sudalaimuthu, MK., Sundaram, S., Ashok, G., Senthilkumar, V., Muralidaran, S., **Subramanian, S***. Identification of Expressed miRNAs in Human Rheumatoid Arthritis Using Computational Approach - Discovery of a New miR-7167 from Human. *Microna*. 2019;8(2):147-154.
7. Singhal, S., Kapoor, H., **Subramanian, S.**, Agrawal, DK., Mittal, SK. Polymorphisms of Genes Related to Function and Metabolism of Vitamin D in Esophageal Adenocarcinoma. *Journal of Gastrointestinal Cancer*. 2019 Dec;50(4):867-878. **Impact Factor 0.42**
8. Chellappandian, M., Saravanan, M., Pandikumar, P., Harikrishnan, P., Thirugnanasambantham, K., **Subramanian, S.**, Hairul-Islam, VI., Ignacimuthu, S. Traditionally practiced medicinal plant extracts inhibit the ergosterol biosynthesis of clinically isolated dermatophytic pathogens. *Journal of Medical Mycology*. 2018 Mar;28(1):143-149. **Impact Factor 2.85**
9. Hairul-Islam, M.I., **Saravanan, S.**, Thirugnanasambantham, K, Chellappandian, M., Simon Durai Raj, C., Karikalan, K., Gabriel Paulraj, M., Ignacimuthu, S. Swertiamarin, a natural steroid, prevent bone erosion by modulating RANKL/RANK/OPG signaling. *International Immunopharmacology*. 2017 Dec; 53:114-124. **Impact Factor 3.36**
10. **Subramanian, S.**, Pallati, P., Sharma, P., Agrawal, D.K., Nandipati, K. Significant association of TREM-1 with HMGB1, TLRs and RAGE in the pathogenesis of insulin resistance in obese diabetic populations. *American Journal of Translational Research*. 2017 Jul 15; 9(7): 3224-3244. **Impact Factor 2.82**
11. Hanieh, H., Hairul Islam, V.I., **Saravanan, S.**, Chellappandian, M., Ragul, K., Durga, A., Venugopal, K., Senthilkumar, V., Senthilkumar, P., Thirugnanasambantham, K. Pinocembrin, a novel histidine decarboxylase inhibitor with anti-allergic potential in in vitro. *European Journal of Pharmacology*. 2017 Nov 5; 814:178-186. **Impact Factor 3.17**
12. **Subramanian. S.**, Pallati, P.K., Rai, V., Sharma, P., Agrawal, D.K., Nandipati, K.C. Increased expression of triggering receptor expressed on myeloid cells-1 in the population with obesity and insulin resistance. *Obesity (Silver Spring)*. 2017; 25(3): 527-538. **Impact Factor 3.61**

13. Nandipati, KC., **Subramanian, S.**, Agrawal, Dk. Protein Kinases: Mechanisms and downstream targets in inflammation-mediated obesity and insulin resistance. *Molecular and Cellular Biochemistry* 2017 Feb;426(1-2):27-45. **Impact Factor 2.84**
14. Rao, VH., Rai, V., Stoupa, S., **Subramanian S.**, Agrawal, DK. Tumor necrosis factor regulates triggering receptor expressed on myeloid cells-1 dependent matrix metalloproteinases in the carotid plaques of symptomatic patients with carotid stenosis. *Atherosclerosis* 2016; 248: 160-9. **Impact Factor 4.23**
15. Rao, VH., Rai, V., Stoupa, S., **Subramanian S.**, Agrawal, DK. Data on TREM-1 activation destailizing carotid plaques. *Data brief* 2016; 27:8: 230-4. **Impact Factor 0.97**
16. **Saravanan, S.**, Islam, V.I., Thirugnanasambantham, K., Sekar, D. In Silico Identification of Human miR 3654 and its Targets revealed its Involvement in Prostate Cancer Progression. *Microna* 2016; 5(2):140-145.
17. **Saravanan, S.**, Thirugnanasambantham, K., Hanieh, H., Durairaj, S., Rukkumani, R., Karikalan, K., Hairul Islam, V.I. miRNA-24 and miRNA-466i controls inflammation in rat hepatocytes. *Cellular and Molecular Immunology* 2015; 12(1):113-5. **Impact Factor 8.21**
18. Thirugnanasambantham, K., **Saravanan, S.**, Karikalan, K., Bharanidharan, R., Lalitha, P., Ilango, S., Hairullslam, V. I., Identification of evolutionarily conserved Momordica charantia microRNAs using computational approach and its utility in phylogeny analysis. *Computational Biology and Chemistry*. 2015; 58: 25-39. **Impact Factor 1.33**
19. Sekar, D., **Saravanan, S.**, Karikalan, K., Thirugnanasambantham, K., Lalitha, P., Islam, V.I. Role of microRNA 21 in mesenchymal stem cell (MSC) differentiation: a powerful biomarker in MSCs derived cells. *Current Pharmaceutical Biotechnology*. 2015; 16(1):43-8. **Impact Factor 1.51**
20. Ramadass, S.K, Anantharaman, N.V., **Saravanan, S.**, Siva Subramanian, S., Madhan, B. Paclitaxel/epigallocatechin gallate coloaded liposome: a synergistic delivery to control the invasiveness of MDA-MB-231 breast cancer cells. *Colloids and Surfaces B: Biointerfaces*. 2015; 125: 65-72. **Impact Factor 3.97**
21. Thirugnanasambantham, K., Durairaj, S., **Saravanan, S.**, Karikalan, K., Muralidaran, S., Hairul-Islam, V.I., Role of Ethylene Response Transcription Factor (ERF) and Its Regulation in Response to Stress Encountered by Plants. *Plant Molecular Biology Reports*. 2015; 33: 347–357. **Impact Factor 1.60**
22. **Saravanan, S.**, Hairul Islam, V.I., David, H. A., Lakshmi Sundaram, R., Chellappandian, M., Balakrishna, K., Rajendran, R., Vijayaraghavan, P., Gabriel Paulraj, M., Ignacimuthu, S. Bioassay guided fractionation and identification of active anti-inflammatory constituent from *Delonix elata* flowers using RAW 264.7 cells. *Pharmaceutical Biology* 2015; 53(2): 174-84. **Impact Factor 1.24**
23. **Saravanan, S.**, Hairul Islam, V.I., Prakash Babu, N., Pandikumar, P., Thirugnanasambantham, K., Chellappandian, M., Simon Durai Raj, C., Gabriel Paulraj, M., Ignacimuthu, S. Swertiamarin attenuates inflammation mediators via modulating NF- κ B/I κ B and JAK2/STAT3 transcription factors in adjuvant induced arthritis. *European Journal of Pharmaceutical Sciences* 2014; 56: 70-86. **Impact Factor 3.77**
24. **Saravanan, S.**, Prakash Babu, N., Pandikumar, P., Hairul Islam, V.I., Thirugnanasambantham, K., Gabriel Paulraj, M., Balakrishna, K., Ignacimuthu, S. In vivo and in vitro immunomodulatory potential of swertiamarin from *Enicostema axillare* (Lam.) A. Raynal, and exerts as an antiinflammatory agent. *Inflammation* 2014; 37(5):1374-88. **Impact Factor 2.93**
25. **Saravanan, S.**, Hairul Islam, V.I., Thirugnanasambantham, K., Pazhanivel, N., Raghuraman, N., Gabriel Paulraj, M., Ignacimuthu, S. Swertiamarin ameliorates inflammation and osteoclastogenesis intermediates in IL-1 β induced rat fibroblast like synoviocytes. *Inflammation Research* 2014; 63(6):451-62. **Impact Factor 3.06**

26. Hairul-Islam, V.I., **Saravanan, S.**, Preetam Raj, J.P., Gabriel Paulraj, M., Ignacimuthu, S. Myroides pelagicus from the gut of Drosophila melanogaster attenuates inflammation on Dextran Sodium Sulfate induced colitis. Digestive diseases and sciences 2014; 59(6):1121-33. **Impact Factor 2.93**
27. Durairaj, S., Hairul Islam, V.I., Thirugnanasambantham, K., **Saravanan, S.** Relevance of miR-21 in HIV and Non-HIV related Lymphomas. Tumor Biology 2014; 35(9): 8387-93. **Impact Factor 3.65**
28. Durairaj, S., Hairul Islam, V.I., Thirugnanasambantham, K., **Saravanan, S.** Sequencing approaches in Cancer Treatment. Cell Proliferation 2014; 47: 391–395. **Impact Factor 5.03**
29. Ramadass, S.K., Perumal, S., Gopinath, A., Nisal, A., **Saravanan, S.**, Madhan, B. Sol-gel assisted fabrication of collagen hydrolysate composite scaffold: a novel therapeutic alternative to the traditional collagen scaffold. Applied Materials and Interfaces 2014; 6, 15015–15025. **Impact Factor 8.45**
30. Amruthraj, N.J., Preetam Raj, J.P., **Saravanan, S.**, Antoine Lebel, L., In vitro studies on anticancer activity of capsaicinoids from Capsicum Chinense against human hepatocellular carcinoma cells. International Journal of Pharmacy and Pharmaceutical Sciences 2014; ISSN- 0975-1491, 6: 253-258. **Impact Factor 0.51**
31. Hairul-Islam, V.I., **Saravanan, S.**, Sekar, D., Karikalan, K., Senthilkumar, P., Chandrika, R., Thirugnanasambantham, K. Identification of microRNAs from Atlantic salmon macrophages upon Aeromonas salmonicida infection. RNA & Disease 2014; 1: e303. DOI 10.14800/rd 303.
32. Saravanan, M., Pandikumar, P., **Saravanan, S.**, Toppo, E., Pazhanivel, N., Ignacimuthu, S. Lipolytic and antiadipogenic effects of (3,3-dimethylallyl) halfordinol on 3T3-L1 adipocytes and high fat and fructose diet induced obese C57/BL6J mice. European Journal of Pharmacology. 2014; 740: 714-21. **Impact Factor 3.17**
33. Prakash Babu, N., **Saravanan, S.**, Pandikumar, P., Balakrishna K., Karunai Raj, M., Ignacimuthu, S. Anti-inflammatory and anti-arthritic effects of novel 3-hydroxy, 2-methoxy sodium butanoate from the leaves of Clerodendrum phlomidis L.f. Inflammation research 2014; 63(2):127-38. **Impact Factor 3.06**
34. Hairul Islam, V.I., **Saravanan, S.**, Ignacimuthu, S. Microbicidal and anti-inflammatory effects of Actinomadura spadix (EHA-2) active metabolites from Himalayan soils, India. S. World Journal of Microbiology and Biotechnology 2014; 30(1): 9-18. **Impact Factor 2.65**
35. Thirugnanasambantham, K., Hairul-Islam, V.I., **Saravanan, S.**, Subasri, S., Subastri, A. Computational Approach for Identification of Anopheles gambiae miRNA Involved in Modulation of Host Immune Response. Applied Biochemistry and Biotechnology 2013; 170(2):281-91. **Impact Factor 2.14**
36. **Saravanan, S.**, Mutheeswaran, S., Saravanan, M., Chellappandian, M., Gabriel Paulraj, M., Karunai Raj, M., Ignacimuthu, S., Duraipandiyan, V. Ameliorative effect of Drynaria quercifolia (L.) J. Sm., an ethnomedicinal plant, in arthritic animals. Food and Chemical Toxicology 2013; 51: 356-363. **Impact Factor 3.77**
37. **Saravanan, S.**, Pandikumar, P., Pazhanivel, N., Gabriel Paulraj, M., Ignacimuthu, S. Hepatoprotective role of Abelmoschus esculentus (Linn.) Moench. on carbon tetrachloride induced liver injury. Toxicology mechanisms and methods 2013; 23(7):528-36. **Impact Factor 2.76**
38. **Saravanan, S.**, Prakash Babu, N., Pandikumar, P., Gabriel Paulraj, M., Karunai Raj, M., Ignacimuthu, S. Immunomodulatory potential of Enicostema axillare (Lam.) A. Raynal, a traditional medicinal Plant. Journal of Ethnopharmacology 2012; 140: 239– 246. **Impact Factor 3.41**
39. **Saravanan, S.**, Hairul Islam, V.I., Gabriel Paulraj, M., Ignacimuthu, S. Protective effect of Enicostema axillare on mutagenicity of Salmonella typhimurium by increasing free radical scavenging abilities. Pharmaceutical Biology 2012; 50(6): 698-706. **Impact Factor 1.24**

40. **Saravanan, S.**, Prakash Babu, N., Pandikumar, P., Ignacimuthu. S. Therapeutic effect of *Saraca asoca* (Roxb.) Wilde on lysosomal enzymes and collagen metabolism in Adjuvant induced Arthritis. *Inflammopharmacology* 2011; 19(6): 317-325. **Impact Factor 3.83**
41. Balaraju, K., **Saravanan, S.**, Agastian, P., Ignacimuthu. S. A rapid system for micropropagation of *Swertia chirata* Buch-Ham. ex Wall.: an endangered medicinal herb via direct somatic embryogenesis. *Acta Physiologiae Plantarum* 2011; 33(4): 1123-1133. **Impact Factor 1.60**
42. Tyagi, A.M., Gautam, A.K., Kumar, A., Srivastava, K., Bhargavan, B., Trivedi, R., **Saravanan, S.**, Yadav, D.K., Singh, N., Pollet, C., Brazier, M., Mentaverri, R., Maurya, R., Chattopadhyay, N., Goel, A., Singh, D. Medicarpin inhibits osteoclastogenesis and has nonestrogenic bone conserving effect in ovariectomized mice. *Molecular and Cellular Endocrinology* 2010; 325 (1-2):101-9. **Impact Factor 3.69**

F. Book Chapters

1. **Saravanan Subramanian.** The Role of Low-Level Laser Therapy (LLLT) in Inflammation. Chapter 4 in *Low-Level Laser Therapy: History, Mechanisms and Medical Uses*. 1st edition, 2018: ISBN: 978-1-53613-226-7, Nova Science Publishers, New York, USA.
2. S. Mathan Kumar and **Saravanan Subramanian.** Mechanisms of Action of Low-Level Laser Therapy. Chapter 2 in *Low-Level Laser Therapy: History, Mechanisms and Medical Uses*. 1st edition, 2018: ISBN: 978-1-53613-226-7, Nova Science Publishers, New York, USA.
3. Krishnaraj Thirugnanasambantham, Villianur Ibrahim Hairul Islam, **Subramanian Saravanan**, Venugopal Senthil Kumar, Ganapathy Ashok, Muthiah Chellappandian. Role of miRNA in Multiple Sclerosis. Chapter 4 in *MicroRNA Perspectives in Health and Diseases*, 1st edition, 2018: eBOOK ISBN 9781315166391, Taylor and Francis Group, CRC press. Boca Raton, FL, USA.

G. Conference Presentations

1. **Saravanan Subramanian**, Xiao Wang, Heng-Fu Bu, Pauline M. Chou, Hua Geng, Chao Du, Isabelle G. De Plaen, Xiao-Di Tan. Scattered intestinal epithelial apoptosis induces mouse pup intestinal injury that mimics necrotizing enterocolitis in humans. *Digestive Disease Week (DDW)*, Chicago, IL, USA, May 2020, *Gastroenterology*, Volume 158, Issue 6, Supplement 1, Page S1-159.
2. Hua Geng, Heng-Fu Bu, **Saravanan Subramanian**, Xiao Wang, Xiao-Di Tan. The activity of Igr5+ crypt base columnar stem cells and transit amplifying cells in the intestine is dynamically changed during the postnatal development. *Digestive Disease Week (DDW)*, Chicago, IL, USA, May 2020, *Gastroenterology*, Volume 158, Issue 6, Supplement 1, Page S556.
3. Heng-Fu Bu, Fangyi Liu, Xiao Wang, Hua Geng, Pauline M. Chou, **Saravanan Subramanian**, Xiao-Di Tan. Characterization of liver wound-healing and regeneration in mice using a novel genetically engineered mouse model. *Digestive Disease Week (DDW)*, Chicago, IL, USA, May 2020, *Gastroenterology*, Volume 158, Issue 6, Supplement 1, Pages S-1329–S-1330.
4. **Saravanan Subramanian**, Heng-Fu Bu, Xiao Wang, Pauline M. Chou, Suhail Akhtar, Hua Geng, Chao Du, and Xiao-Di Tan. A novel neonatal mouse model of experimental necrotizing enterocolitis induced by scattered intestinal epithelial apoptosis. *The Federation of American Societies for Experimental Biology (FASEB), The Gastrointestinal Tract XVIII Conference: Integrated Biology of the GI Super-Organ*, 2019, Steamboat Springs, Colorado, USA
5. Nandipati KC, Sharma P, **Subramanian S**, Agrawal DK and. Regulation of Trigger Receptor Expressed on Myeloid cells-1 (TREM-1) in hepatocytes (in-vivo) and HepG2 cell line (in-vitro) during Insulin Resistance. *Digestive Disease Week (poster)*., Chicago, IL, USA, April 2017, *Gastroenterology*, Volume 152, Issue 5, Supplement 1, Page S1268

6. **Subramanian S**, Sharma P, Agrawal DK and Nandipati KC. Inflammatory mediators and signaling cascades in pathophysiology of obesity induced insulin resistance. SAGES 2017, Abstract ID: 79145, Houston, TX, USA.
7. Nandipati KC, **Subramanian S**, Pallati P, Rai V, Sharma P, Agrawal DK. Triggering Receptor Expressed on Myeloid Cells-1 is a Novel Biomarker for Insulin Resistance in the Obese Population. DDW/SSAT. Plenary session, April 2016, Gastroenterology, Volume 150, Issue 4, Supplement 1, Page S1197.
8. Singhal S, Kapoor H, **Subramanian S**, Akimoto S, Agrawal DK, Mittal S. Patterns of Polymorphisms in Vitamin D Metabolism Related Genes in the Genomic DNA of Patients with Barrett's Esophagus and Esophageal Adenocarcinoma. Digestive Disease Week (poster). April 2016, Gastroenterology, Volume 150, Issue 4, Supplement 1, Page S1226
9. Hairul Islam, V.I., Thirugnanasambantham, K., **Saravanan, S**. A novel approach for isolation and characterization of biostatic probiotics isolated from healthy infant fecal. In Proceedings of 2nd National Conference on "Transfigures in Bioscience and Technology" ISBN: 978-81-907494-8-0 (2012): 120-125.
10. Hairul Islam, V.I., **Saravanan, S.**, Thirugnanasambantham, K., Ignacimuthu, S. Cytokine regulation in fungal infected keratinocytes by influence of Microbial proteins. International Journal of Pharma and Bio Sciences (2012): ISSN 0975 – 6299.

H. NCBI GenBank Submission and Authentication

1. Hairul Islam, V.I., **Saravanan, S.**, Ignacimuthu, S., Thirugnanasambantham, K. Bacillus cereus strain EPB-8 fibrinogen-binding protein gene completes CDS (2012). (NCBI Acc. no: KC012948)
2. Hairul Islam, V.I., **Saravanan, S.**, Ignacimuthu, S. Proteolytic bacteria from Himalayan soil samples (2012). (NCBI Acc. no: JQ768222 - JQ768231)
3. Hairul Islam, V.I., **Saravanan, S.**, Balthazar, J.D., Ignacimuthu, S., Paulraj, G. Bacillus amyloliquefaciens strain PBT-3 16s 16s ribosomal RNA gene, partial sequence (2011). (NCBI Acc. no: JF836079)
4. Hairul Islam V.I., **Saravanan, S.**, Balthazar, J.D., Ignacimuthu, S., Paulraj, G. Streptomyces rochei strain 16s ribosomal RNA gene, partial sequence (2010). (NCBI Acc. no: HQ127628)

I. Training and Experiences

2008	Training on "Molecular Techniques" at Biozone Pvt. Ltd, Chennai, India
2010	Training on "The care, breeding and experimental techniques of laboratory animals" on NCLAS, National Institute of Nutrition (ICMR), Hyderabad, India.
2012	Training on "Molecular diagnostic for emerging diseases" on Pondicherry Centre for Biological Sciences, Pondicherry, India.

J. Google Scholar citations

<https://scholar.google.com/citations?user=wxxj0Y4AAAAJ&hl=en&oi=ao>

List Comprising Citation: 6 April 2022	Citations: 1031 h-index: 20 i-10 index: 29
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K. Participation as Reviewer

Review/forum/conference	Reviewer/Judge	numbers
Completed Reviews	Inflammopharmacology https://www.springer.com/journal/10787	30
	Molecular and Cellular Endocrinology https://www.journals.elsevier.com/molecular-and-cellular-endocrinology	01
	Scientific Reports https://www.nature.com/srep/	01
	Computational Biology and Chemistry https://www.journals.elsevier.com/computational-biology-and-chemistry	01
	Current Pharmaceutical Biotechnology https://benthamscience.com/journals/current-pharmaceutical-biotechnology/	01
	Journal of Applied Biomedicine https://jab.zsf.jcu.cz/	01
	Pharmaceutical Biology https://www.tandfonline.com/loi/iphb20	01
	Gene Reports https://www.journals.elsevier.com/gene-reports	01
	Plant Science today http://horizonpublishing.com/journals/index.php/PST	03
	Journal of Microbiology, Biotechnology, and Food Sciences https://www.jmbfs.org/	01

L. Additional qualifications

2000	Rashtrabasha Visharadh (Hindi language)", Dakshina Bharat Prachar Sabha, Govt. of India
2003	Type Writing Higher (English and Tamil)
2006	HDCA (Honours Diploma in Computer Applications), NATHAN Computer Education, Ambasamuduram, TamilNadu, India.