

(Hairul Islam Mohamed Ibrahim)

## CURRICULUM VITAE



**Name** : **Hairul-Islam M Ibrahim**  
**DOB** : **1<sup>st</sup> March** 1983  
**Current Designation** : **1. Managing Director**  
Pondicherry centre for Biological sciences and  
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### CURRENT RESEARCH :

- Proteomic network analysis in DSS induced mice models
- Metabolites of honey substitution for pharmacological properties
- Characterization of miRNA in macrophages, neuronal cell lines and mosquitoes.
- Identification and characterization of miRNA in inflammation and neurodegenerative diseases
- Screening of antagonist for anti- cancer and anti-inflammatory properties using cell line models.
- Screening of microbial products for anti-proliferative activity in cancer cell lines.

### ACADEMIC QUALIFICATIONS

S.No	Degree	Subject	Name of the university	Marks and grade	Year of Passing
1	<b>Ph.D</b>	Biotechnology	University of Madras	Highly commendable	April-2012
2	<b>M.Sc.,</b>	Biotechnology	Periyar University	71%	May-2007
3	<b>B.Sc.,</b>	Biotechnology	Pondicherry University	61%	May 2005

(Hairul Islam Mohamed Ibrahim)

## RESEARCH EXPERIENCE

Institution	Post held	Duration of service	Job description
Pondicherry centre for biological sciences	Research Manager	September 2011 to Till Date	Demonstrator and researcher in Host pathogen interaction group
Entomology research institute	Research fellow	November 2007 to June 2011	Doctoral programme on probiotic and colon cancer studies
Sri Meenakshi ammal dental college	Team leader	May 2007 to November 2007	Nano coupling with bacterial molecule for oral cancer therapy

### In Addition, involved in major research projects during Ph.D period

- The National scheme 1:

Served as Project fellow in **DRDO, Govt of India**, funded project entitled “Screening of Medicinal plants of Eastern ghat in southern India for anti- dermatophytic and anti-inflammatory properties” during the period of March 2008 to May 2009 at Entomology research institute, Loyola college, India.

- Institutional scheme1:

Served as Research assistant in **Loyola Grant Funded** project entitled “Inflammatory cytokines and wound healing regulator modulations of extracellular cysteine protease from bacteria” during the period of June 2009 to June 2011 at Entomology research institute, Loyola college, India.

## AWARDS RECEIVED

- In August 2015, **Young scientist award** from DST, SERB Scheme, Govt of India.
- In December 2005 “**First in State level Quiz Competition**”, State Ministry of Health, Pondicherry, India.
- In September 2003, **Second prize in Poster Presentation in State Level Science Expo**, Srimad Andavan Science College, Trichy, India.

(Hairul Islam Mohamed Ibrahim)

**Ph.D RESEARCH TITLE:** Isolation of Probiotics and Proteolytic Bacteria From North East Himalayan Soils For The Management Of Inflammatory Bowel Disease (Ulcerative Colitis) And Colitis Induced Colon Cancer.

**RESEARCH INTEREST:** Probiotic selection and evaluation, Host-Pathogen interactions, Molecular analysis of food allergen susceptibility, Antibiotic resistant analysis and development of antimicrobials, Microbiome in intestinal environment, miRNA and biomarker development.

**PUBLICATION SUMMARY SINCE 2010 - (Cumulative Impact fact = 88.52)**

**Citations:** 734; **h-index:** 17; **i10-index:** 23.

**RESEARCH ARTICLES PUBLISHED (from 2016)**

1. Promise Madu Emeka, **Hairul Islam M. Ibrahim**. Protective effects of lutein against vancomycin-induced acute renal injury via upregulation of Nrf2- and PPAR $\gamma$ -induced NF- $\kappa$ B. The Korean Journal of Physiology & Pharmacology. 2021.
2. Hany Ezzat K, Hossam M Darrag, **Hairul-Islam M.I.**, Promise M Emeka, Lorina I Badger-Emeka, Katsuyoshi Matsunami, Tamer M Shehata, Heba S Elsewedy Date Palm Extract (Phoenix dactylifera) PEGylated Nanoemulsion: Development, Optimization and Cytotoxicity Evaluation. Plants, 2021, 735.
3. Emad A Ahmed, **Hairul-Islam M Ibrahim**, Hany Ezzat Khalil. Pinocembrin Reduces Arthritic Symptoms in Mouse Model via Targeting Sox4 Signaling Molecules. J. Med Food. 2021, 281-290.
4. Hassan H. Hammud, Gregory J. McManus, Michael J. Zaworotko, Rola N. Tabesh, **Hairul Islam M. Ibrahim**, Khurshid Ayub, Ralf Ludwig. The co-crystal of copper(II) phenanthroline chloride complex hydrate with p-aminobenzoic acid: structure, cytotoxicity, thermal analysis, and DFT calculation. Monatshefte für Chemie - Chemical Monthly, 2021, 323-336.
5. Faisal Almathen and **Hairul Islam M Ibrahim**, Abdullah Sheikh. Expression of the Tyrosinase Gene in Different Dromedary Camels of Saudi Arabia. pakistan journal of zoology, 2021, 1-7.
6. **Hairul Islam M Ibrahim**, Mohammad Bani Ismail, Rebai Ben Ammar, Emad A Ahmed. Thidiazuron suppresses breast cancer via targeting miR-132 and dysregulation of the PI3K–Akt signaling pathway mediated by the miR-202-5p–PTEN axis. Biochemistry and Cell Biology, 2021, 1-11.

(Hairul Islam Mohamed Ibrahim)

7. Lorina I Badger-Emeka, Promise Madu Emeka, **Hairul Islam M Ibrahim**. A Molecular Insight into the Synergistic Mechanism of *Nigella sativa* (Black Cumin) with  $\beta$ -Lactam Antibiotics against Clinical Isolates of Methicillin-Resistant *Staphylococcus*. *Applied Sciences*, 2021, 3206.
8. Lorina I. Badger-Emeka, Promise Madu Emeka, Krishnaraj Thirugnanasambantham, **Hairul-Islam M. Ibrahim**. Anti-Allergic Potential of Cinnamaldehyde via the Inhibitory Effect of Histidine Decarboxylase (HDC) Producing *Klebsiella pneumoniae*. *Molecules*, 2020, 25 (23).
9. **Hairul-Islam M Ibrahim**, Hossam M. Darrag, Mohammed Refdan Alhajhoj, Hany Ezzat Khalil. Biomolecule from *Trigonella stellata* from Saudi Flora to Suppress Osteoporosis via Osteostromal Regulations. *Plants*. 2020. 9 (11) 1610.
10. **Hairul-Islam M Ibrahim**, Mohammad Bani Ismail, Rebai Ben Ammar, Emad Ahmed. Thidiazuron suppresses breast cancer progression via targeting miR-132 and miR-202-5p/PTEN axis mediated dysregulation of PI3K/AKT signaling pathway. *Biochemistry Cell Biology*, 2020. PMID: 33103467. <https://doi.org/10.1139/bcb-2020-0377>.
11. Peramaiyan Rajendran, Rebai Ben Ammar, Fatma J. Al-Saeedi, Maged Elsayed Mohamed, **MI Hairul Islam**, Saeed Y. Al-Ramadan. Thidiazuron decreases epithelial-mesenchymal transition activity through the NF- $\kappa$ B and PI3K/AKT signalling pathways in breast cancer. *J Cell Mol Med*. 2020;24:14525–14538.
12. Promise M. Emeka, Lorina I. Badger-Emeka, **Hairul-Islam M. Ibrahim**, Krishnaraj Thirugnanasambantham, Jamal Hussien. Inhibitory Potential of Mangiferin on Glucansucrase Producing *Streptococcus mutans* Biofilm in Dental Plaque. *Applied Sciences*. 2020. 10(22) 8297.
13. **Hairul-Islam M Ibrahim**, S Arokiyaraj, M Kuralarasan, V Senthil Kumar, P Harikrishnan, S Saravanan, G Ashok, M Chellappandian, R Bharanidharan, S Muralidaran, K Thirugnanasambantham. Inhibitory potential of EGCG on *Streptococcus mutans* biofilm: A new approach to prevent Cariogenesis. **Microbial pathogenesis**. 2020.
14. Raj C, Simon D, Thirugnanasambantham, K; **Hairul-Islam, Mohamed I**; S, Mathan Kumar; S, Sandhya; Senthilkumar, V; S, Saravanan. Identification of Expressed miRNAs in Human Rheumatoid Arthritis Using Computational Approach – Discovery of a New miR-7167 from Human. **MicroRNA**. 2019.
15. V SenthilKumar, S Kumaresan , M Muthu Tamizh, **HairulIslam M Ibrahim**, K

(Hairul Islam Mohamed Ibrahim)

- Thirugnanasambantham. Anticancer potential of NF- $\kappa$ B targeting apoptotic molecule “flavipin” isolated from endophytic *Chaetomium globosum*. **Phytomedicine**. 2019.
16. Alzahrani Abdullah, Mohammed M, **Hairul-Islam M Ibrahim**, Alwassil Osama I. ,Habash Maha,Alfuwaires Manal, Hanieh Hamza. Activation of aryl hydrocarbon receptor signaling by a novel agonist ameliorates autoimmune encephalomyelitis. **Plos One**. 2019.
17. M.Chellappandian. M.Saravanan. P.Pandikumar. P.Harikrishnan. K. Thirugnanasambantham. S.Subramanian. **M.I.Hairul-Islam**. S.Ignacimuthu. Traditionally practiced medicinal plant extracts inhibit the ergosterol biosynthesis of clinically isolated dermatophytic pathogens. **Journal de Mycologie Médicale**. 28, 1, 2018, 143-149.
18. L.I. Badger-Emeka, M. E. Promise, A.A. Abdulhadi, **M. I. Hairul Islam**. Antibiotic susceptibility and plasmid profile of clinical isolates of *Escherichia coli*. **Biomedical Research** 2018; 29 (17): 3303-3310.
19. H. Hanieh, **Hairul Islam, M.I.**, S. Saravanan, M. Chellappandian, K. Ragul, A. Durga, 2017. Pinocembrin, a novel histidine decarboxylase inhibitor with anti-allergic potential in *in vitro*. **European journal of pharmacology**; 814, 178-186.
20. **M.I. Hairul-Islam**, S. Saravanan, K. Thirugnanasambantham, M. S. Ignacimuthu. 2017. Swertiamarin, a natural steroid, prevent bone erosion by modulating RANKL/RANK/OPG signalling. **International immunopharmacology**; 53, 114-124.
21. AM Alzahrani AM, Hanieh H, **Ibrahim HM**, Mohafez O, Shehata T, Bani Ismail M. 2017. Enhancing miR-132 expression by aryl hydrocarbon receptor attenuates tumorigenesis associated with chronic colitis. **International immunopharmacology** 52, 342–351
22. K Thiru Hamza Hanieh , Omar Mohafez, **V.I. Hairul-Islam**, Abdullah MA 2016. Novel Aryl Hydrocarbon Receptor Agonist Suppresses Migration and Invasion of Breast Cancer Cells. **Plos One**. 2016/12.
23. D Sekar, R Krishnan, K Thirugnanasambantham, B Rajasekaran, **V.I. Hairulislam**. 2016. Significance of microRNA 21 in gastric cancer. **Clinics and research in hepatology and gastroenterology** 40 (5), 538-545.
24. G Nattudurai, K Baskar Micheal, Gabriel Paulraj, **V.I. Hairul Islam**, Savarimuthu Ignacimuthu Veeramuthu Duraipandiyan 2016. Toxic effect of *Atalantia monophylla* essential oil 5 on *Callosobruchus maculatus* and *Sitophilus oryzae*. **Environ Sci Pollut Res** 2.

(Hairul Islam Mohamed Ibrahim)

25. S Saravanan, **V.I H-Islam**, K Thirugnanasambantham, D Sekar. 2016. In Silico Identification of Human miR 3654 and its Targets Revealed its Involvement in Prostate Cancer Progression. **MicroRNA** 5 (2), 140-145.
26. MB Ramadass SK, Jabarisi SL, Perumal RK, **HairulIslam VI**, Gopinath A. 2016. Type I Collagen and its Daughter Peptides for Targeting Mucosal Healing in Ulcerative colitis: A New Treatment Strategy. **European Journal of Pharmaceutical Sciences**.
27. S Arokiyaraj, M Saravanan, R Bharanidharan, **VI.HairulIslam**, M Bououdina. 2016. Green Synthesis of Metallic Nanoparticles Using Plant Compounds and Their Applications: Metallic Nanoparticles Synthesis Using Plants. **Emerging Research on Bioinspired Materials Engineering**, 1-34

#### **REVIEW ARTICLES PUBLISHED**

1. Durairaj, S., **Hairul Islam, V.I.**, Thirugnanasambantham, K., Saravanan, S. 2014. Relevance of miR-21 in HIV and Non-HIV related Lymphomas. **Tumor Biology** (6<sup>th</sup> May- DOI 10.1007/s13277-014-2068-9).
2. Durairaj, S., **Hairul Islam, V.I.**, Thirugnanasambantham, K., Saravanan, S. Sequencing approaches in Cancer Treatment. **Cell Proliferation** (Doi: 10.1111/cpr.12124).
3. Krishnaraj Thirugnanasambantham, Sekar Durairaj, Subramanian Saravanan, Kulandaivelu Karikalan, Senguttuvan Muralidaran, **Villianur Ibrahim Hairul Islam**. 2014. Role of Ethylene Response Transcription Factor (ERF) and Its Regulation in Response to Stress Encountered by Plants. **Plant Mol Biol Rep**. DOI 10.1007/s11105-014-0799-9.

#### **Book chapter:**

1. K. Thirugnanasambantham, **V.I. Hairul Islam**, S. Saravanan, V. Senthil Kumar, G. Ashok, M. Chellappandian. Role of miRNA in Multiple Sclerosis. CRC Press, MicroRNA-2018.
2. S. Arokiyaraj, M. Saravanan, R. Bharanidharan, V. I. Hairul Islam, M. Bououdina, S Vincent. Green Synthesis of Metallic Nanoparticles Using Plant Compounds and Their Applications: Metallic Nanoparticles Synthesis Using Plants. IGI global. Emerging Research on Bioinspired Materials Engineering, 2016.

#### **RESEARCH PUBLICATION IN CONFERENCE AND PROCEEDINGS**

1. **V.I. Hairul Islam**, S. Saravanan, R. Chandrika and Thirugnanasambantham K (2014). Anti-infective and biocompatible endophytic *Vibrio alginolyticus* isolated

(Hairul Islam Mohamed Ibrahim)

from *Andrographis paniculata* (Brum.f.) Wall. ex Neel. P.31. In: Abstracts. **MAHER National Summit on Current Research in Science** organized by Department of Microbiology, Meenakshi Ammal Dental College Chennai – 600 095 India.

2. **Hairul Islam V.I.**, Thirugnanasambantham K and Saravanan S. 2012. A novel approach for isolation and characterization of biostatic probiotics isolated from healthy infant. In Proceedings of 2<sup>nd</sup> National Conference on “**Transfigures in Bioscience and Technology**” organized by **Madha engineering College, Chennai, ISBN: 978-81-907494-8-0: 120-125.**
3. **Hairul Islam V.I.**, Saravanan S, Thirugnanasambantham K and Ignacimuthu S. 2012. Cytokine regulation in fungal infected keratinocytes by influence of Microbial proteins. In Proceedings of **National Conference on Recent Trends in Industrial Pharmacognosy**, 2012. Pp 16-17. *International Journal of Pharma and Bio Sciences ISSN 0975 – 6299.*

#### **PUBLICATION: GENE SEQUENCE SUBMITTED TO NCBI DATABASE**

1. **Hairul Islam, V.I.** *Bacillus cereus* strain EPB-8 16S ribosomal RNA gene, partial sequence **GenBank: HQ157567.**
2. **Hairul Islam, V.I.** *Micromonospora marina* strain EHA-8 16S ribosomal RNA gene, partial sequence **GenBank: HQ127630.**
3. **Hairul Islam V.I.** *Actinomadura* sp. EHA-2 16S ribosomal RNA gene, partial sequence **GenBank: GU998793.**
4. **Hairul Islam V.I.** *Streptomyces rochei* 16s sequence **Genbank - HQ127628**
5. **Hairul Islam V.I.** *Bacillus amyloliquefaciens* strain PBT-3 16s sequence. **Genbank- JF836079**
6. **Hairul Islam, V.I.** *Bacillus cereus* strain EPB-8 fibrinogen-binding protein gene complete CDS. **Genbank: Protein ID- AFZ62656.1 and Gene ID: KC012948.**
7. **Hairul Islam, V.I.** Proteolytic bacteria from Himalayan soil samples. **Genbank -: JQ768222 - JQ768231.**

#### **TRAINING AND WORKSHOP ORGANIZED**

- Organized and demonstrate the workshop in “**miRNA Biology, Identification and applications**” in Pondicherry centre for Biological sciences, India. 13-15 May-2014.

(Hairul Islam Mohamed Ibrahim)

- Organized and demonstrate the workshop in “**Real Time PCR application and Diagnostics**” in Meenakshi ammal dental college, India. 14-17 October-2012.
- Organized and demonstrate “**Animal cell culture techniques and toxicology**” in Biozone research technologies, Chennai, India. 22- 30 March 2011.
- Delivered lecture and demonstrate “**Cell culture maintenance and applications**” in Meenakshi ammal dental college, Chennai. India. 26-28 August-2010.

**OTHER DEGREES and DIPLOMAS:**

Diploma in **Computer Hardware Engineering** at Trilogi Technologies, Pondicherry, India 2004.

Yours sincerely

**V.I. Hairul Islam**



(Hairul Islam Mohamed Ibrahim)