**Personal Details**

**Name** Dr. Harishchander Anandaram, **Date of Birth**: 29.05.1988, **Age**: 32 Years, **Gender**: Male, **Category** (SC/ST/OBC/Others): Others, **Postal Address**: Plot No. 96/97, Next to SK. Orchid Mini Hall, Nature Enclave, Inside Rainbow Colony / Enclave, Sugunapuram East, Near Myllkal Bus Stop, Kuniamuthur, and Coimbatore-641008. **Email**: [harishchander.a@gmail.com](mailto:harishchander.a@gmail.com), **Mobile No**.: +91-9940066227.

**Educational Details**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Course  (Full Time) | Subject | College/ Board / University | Year of Passing | Class | Percentage / GCPA |
| SSLC | Tamil, English, Mathematics, Science & Social Studies | Sri Rama Krishna Mission Vidhyalaya Boys Higher Secondary School  (TN state board) | 2003 | First | 88 % |
| HSC. | Tamil, English, Mathematics, Physics, and Chemistry | Vana Vani Higher Secondary School  (TN state board) | 2005 | First | 67% |
| B.Tech | Bioinformatics | Sathyabama University | 2009 | First | 69% |
| M.Tech | Bioinformatics | Sathyabama University | 2011 | First | CGPA  7.9/10 |
| Ph.D. | Bioengineering | Sathyabama Institute of Science and Technology | 2020 | First | Published 7 Papers in Scopus Indexed Journals |

**Career**

* + Assistant Professor in the Centre for Excellence in Computational Engineering and Networking at Amrita

Vishwa Vidyapeetham, Coimbatore from 17.06.2021- Till Date.

* + Assistant Professor in Bioinformatics department at Sri Krishna Arts and Science College, Coimbatore

from 15.05.2019 – 16.06.2021.

* + Research Associate in Institute of Life Sciences, Bhubaneswar from 28.09.2018-25.03.2019.
  + Technical Assistant in Indo US TB Project at JIPMER, Puducherry from 06.10.2016 - 06.03.2018.
* Research Scholar in Sathyabama University, Chennai from 01.01.2012-05.10.2016.

**Citations**

* Google Scholar Citations**:** 52,h-index**:** 3,i10 index**: 1** <https://scholar.google.co.in/citations?user=TqdmWWEAAAAJ&hl=en>
* Scopus Citations: 7, h-index: 2 - <https://www.scopus.com/authid/detail.uri?authorId=56269912700>.
* ORCID-000-003-2993-5304 - <https://orcid.org/my-orcid?orcid=0000-0003-2993-5304>
* Publons:279800 - <https://publons.com/researcher/279800/harishchander-anandaram/>

**Patent – Inventor & Applicant**

* IOT BASED TUBERCULOSIS CONTROLLING AND ITS OUTCOME INDIRECTLY OBSERVED THERAPY SYSTEM USING MACHINE LEARNING ALGORITHM IN MEDICAL CENTRE, Application No.**202241020325 A**, Date of Publication: **15.04.2022 (**Journal **–** Publication - **Indian Patent**).
* MACHINE LEARNING BASED APPROACH TO STUDY AND ANALYSE BIOMEDICAL INTERVENTIONS IN THE PRECISION MEDICINE FOR TUBERCULOSIS, Application No. **202211024051 A**,Date of Publication: **06.05.2022** (Journal **–** Publication - **Indian Patent).**
* MACHINE LEARNING AND ADVANCED IMAGING TECHNIQUES TO PREDICT LUNG CANCER, Application No.**202211024612 A**, Date of Publication: **06.05.2022** (Journal **–** Publication - **Indian Patent).**
* DIABETIC BLOOD GLUCOSE PREDICTION USING DEEP LEARNING, Application No.**202241022891 A**, Date of Publication: **06.05.2022** (Journal **–** Publication - **Indian Patent).**
* ARTIFICIAL INTELLIGENCE-BASED APPROACH TO STUDY THE VARIOUS DRUG MOLECULES DERIVED FROM MARINE ORGANISMS AND THEIR USES, Application No.**202241023365 A**,Date of Publication: **06.05.2022** (Journal **–** Publication - **Indian Patent).**
* MACHINE LEARNING-BASED APPROACH TO ANALYSE THE IMPACT OF DRUGS FROM MARINE ORGANISMS IN THE TREATMENT OF OSTEOPOROSIS, Application No. **202241024295 A**, Date of Publication: **06.05.2022** (Journal **–** Publication - **Indian Patent).**
* DRYING MEDICINAL PLANT USING MICROWAVE POWER METHOD AND THEREOF, Application No. **202241026080 A**, Date of Publication: **13.05.2022** (Journal **–** Publication - **Indian Patent).**
* AUTOMATIC SAFE HEALTHCARE MANAGEMENT SYSTEM FOR HELPING PATIENTS TO EAT BETTER DURING AND BEYOND CANCER TREATMENT USING MACHINE LEARNING, Application No. **202241022832 A**, Date of Publication: 13.05.2022 (Journal **–** Publication - **Indian Patent).**
* IOT BASED SMART SURGERY MANAGEMENT SYSTEM FOR HOSPITALS, Application No. **202241025898 A**, Date of Publication: **13.05.2022** (Journal **–** Publication - **Indian Patent).**
* AI-BASED EARLY-STAGE DETECTION AND PREVENTION OF MENTAL DETERIORATION AND INCURABLE BRAIN DISEASE USING IMAGE PROCESSING IN HEALTHCARE MANAGEMENT, Application No. **202241024831 A**, Date of Publication: 13.05.2022 (Journal **–** Publication - **Indian Patent).**
* HYBRID FUZZY ASSOCIATION RULE ALGORITHMS TO DETECT THE ANOMALIES IN HEALTH CARE DATA, Application No. **202241025524 A**, Date of Publication: 13.05.2022 (Journal **–** Publication - **Indian Patent).**
* MACHINE LEARNING BASED APPROACH TO ANALYSE THE PROTEIN SEQUENCES IN THE DIABETIC PATIENTS AND EFFICIENT SEGREGATION OF TYPES OF DIABETES, Application No**. 202241023905 A**, Date of Publication: **13.05.2022** (Journal **–** Publication - **Indian Patent).**
* AI-BASED PREVENTION AND PREDICTION OF RESTLESS LEGS SYNDROME IN PATIENTS WITH LIVER PROBLEM USING MACHINE LEARNING AND DEEP LEARNING ALGORITHMS, Application No**. 202211027211 A**, Date of Publication: **20.05.2022** (Journal **–** Publication - **Indian Patent).**
* MACHINE LEARNING HEREDITARY FACTOR BASED MUTIFEATURED ALGORITHM FOR EARLY DIABETES DETECTION, Application No**. 202241025877 A**, Date of Publication: **20.05.2022** (Journal **–** Publication - **Indian Patent).**
* DESIGN OF A SECURE WIFI-BASED HOME AUTOMATION SYSTEM USING INTERNET OF THINGS, Application No**. 202241027054 A**, Date of Publication: **27.05.2022** (Journal **–** Publication - **Indian Patent).**
* AN UNMANNED AERIAL VEHICLE(UAV) SYSTEM TO MONITOR THE CULTIVATION OF CROPS PATTERNS BASED ON SOIL FERTILITY USING DEEP LEARNING TECHNIQUES, Application No**. 202211026610 A**, Date of Publication: **20.05.2022** (Journal **–** Publication - **Indian Patent**).
* AN ARTIFICIAL INTELLIGENCE BASED APPROACH TO LOOK FOR ABNORMALITIES IN HEART ANATOMY USING IMAGING MODALITIES, Application No**. 202241026105 A**, Date of Publication: **27.05.2022** (Journal **–** Publication - **Indian Patent).**
* ARTIFICIAL NEURAL NETWORK ANALYSIS OF INVESTOR SENTIMENT AND STOCK MARKET RETURNS DURING THE COVID-19 PANDEMIC, Application No**. 202241027262 A**, Date of Publication: **27.05.2022** (Journal **–** Publication - **Indian Patent).**
* AN ARTIFICIAL INTELLIGENCE BASED APPROACH TO STUDY THE MOLECULAR BIOLOGICAL ASPECTS OF PATIENTS SUFFERING FROM CANCER, Application No**. 202241027522 A**, Date of Publication: **27.05.2022** (Journal **–** Publication - **Indian Patent).**
* A HYBRID PREDICTION MODEL FOR BIG DATA CLUSTERING AND CLASSIFICATION USING RANDOM FOREST, K-MEANS, AND DECISION TREE, Application No**. 202241027528 A**, Date of Publication: **27.05.2022** (Journal **–** Publication - **Indian Patent).**
* AN ARTIFICIAL INTELLIGENCE BASED APPROACH TO STUDY HOW THE MEMBRANOUS CELLS SUPPORT FOR DIFFUSION OF DRUG MOLECULES, Application No**. 202241028324 A**, Date of Publication: **27.05.2022** (Journal **–** Publication - **Indian Patent).**
* EVALUATION OF IOT IN HEALTH SECTOR BY PRESERVING PRIVACY SECURITY ANALYSIS IN HEALTHCARE, Application No**. 202241028519 A**, Date of Publication: **27.05.2022** (Journal **–** Publication - **Indian Patent).**
* A HYBRID SECURITY FRAMEWORK MODEL FOR THE PRIVACY OF CLOUD COMPUTING IN BIG DATA AND IOT, Application No**. 202241026837 A**, Date of Publication: **03.06.2022** (Journal **–** Publication - **Indian Patent).**
* MACHINE LEARNING BASED APPROACH TO STUDY THE POSITIVE AND NEGATIVE TRAITS OF GENOME EDITING TECHNIQUE IN CANCER PATIENTS, Application No**. 202241029354 A**, Date of Publication: **03.06.2022** (Journal **–** Publication - **Indian Patent).**
* CLASSIFYING DDOS OCCURRENCES EVALUATION USING MACHINE LEARNING APPROACH WITH PREDICTIVE ANALYSIS, Application No**. 202241029443 A**, Date of Publication: **03.06.2022** (Journal **–** Publication - **Indian Patent).**
* IoT AND BLOCKCHAIN BASED AGRI SUPPLY CHAIN, Application No.**202241029483 A**, Date of Publication: **03.06.2022** (Journal **–** Publication - **Indian Patent).**
* DIAGNOSING BRAIN DAMAGES DETECTION OVER THE CONSCIOUSNESS USING MACHINE LEARNING APPROACH, Application No. **202241029484 A**, Date of Publication: **03.06.2022** (Journal **–** Publication - **Indian Patent).**
* ARTIFICIAL INTELLIGENCE-BASED SYSTEM TO DIRECT THE DRUGS TO THE FAULTY DNA SEQUENCES AND CORRECT THE ERRONEOUS GENOME SEQUENCE, Application No. **202241029665 A**, Date of Publication: **03.06.2022** (Journal **–** Publication - **Indian Patent).**
* MACHINE LEARNING AND IOT BASED APPROACH MONITORING AND PREDICTION OF AIR QUALITY POLLUTION, Application No. **202241029669 A**, Date of Publication: **03.06.2022** (Journal **–** Publication - **Indian Patent).**
* MACHINE LEARNING BASED APPROACH TO STUDY AND ANALYZE THE IMMUNOLOGY OF HUMANS BASED ON THEIR GENOME SEQUENCES, Application No. **202241029805 A**, Date of Publication: **03.06.2022** (Journal **–** Publication - **Indian Patent).**
* RFID technology for IoT-based personal healthcare in smart spaces, Application No. **202241030962 A**, Date of Publication: **03.06.2022** (Journal **–** Publication - **Indian Patent).**
* ARTIFICIAL INTELLIGENCE-BASED TECHNIQUE TO ANALYSE THE VARIOUS NANO MATERIAL PROPERTIES TO BE USED AS DRUG MOLECULES, Application No. **202211029302 A**, Date of Publication: **03.06.2022** (Journal **–** Publication - **Indian Patent).**
* ARTIFICIAL INTELLIGENCE BASED APPROACH TO PREDICT THE REGENERATION OF GENETICALLY MODIFIED PLANTS AND DETECT THEIR CROP YIELD QUALITY, Application No. **202241032073 A**, Date of Publication: 1**0.06.2022** (Journal **–** Publication - **Indian Patent).**
* STRESS PREDICTION USING AN INTERNET OF STRESS PREDICTION USING AN INTERNET OF THINGS-BASED NOVEL WEARABLE SMART ELECTRONIC DEVICE USING MACHINE LEARNING SUPERVISED TECHNIQUE, Application No. **202241031368 A**, Date of Publication: 1**0.06.2022** (Journal **–** Publication - **Indian Patent).**
* MACHINE LEARNING BASED APPROACH TO ANALYZE THE IMPORTANCE OF FUNCTIONALITIES OF VARIOUS NANOPARTICLES IN THE FIELD OF MEDICINE, Application No. **202241030782 A**, Date of Publication: 1**0.06.2022** (Journal **–** Publication - **Indian Patent).**
* IoT AND AI-BASED AUTOMATED TOLL GATE TAX COLLECTION SYSTEM AND ENHANCE THE FAST-MOVING OF EMERGENCY VEHICLE TO SAVE PATIENTS USING CLOUD DATABASE, Application No. **202241030705 A**, Date of Publication: 1**7.06.2022** (Journal **–** Publication - **Indian Patent)**.
* SMART WHEELCHAIR FOR PHYSICALLY DISABLED PEOPLE USING IoT, Application No. **202241030783 A**, Date of Publication: 1**7.06.2022** (Journal **–** Publication - **Indian Patent).**
* AI-Driven IOT for M-Health application in Cloud Platform, Application No. **202241031230 A**, Date of Publication: 1**7.06.2022** (Journal **–** Publication - **Indian Patent).**
* Efficient handling of M-health data using artificial intelligence and big data, Application No. **202241033426 A**, Date of Publication: 1**7.06.2022** (Journal **–** Publication - **Indian Patent).**
* MACHINE LEARNING BASED APPROACH TO STUDY THE IMPORTANCE OF CAROTENOIDS IN ENHANCING THE REPRODUCTION CAPACITY OF AQUATIC ANIMALS, Application No. **202241033889 A**, Date of Publication: 1**7.06.2022** (Journal **–** Publication - **Indian Patent).**
* ROBOTIC TECHNOLOGY BASED DRUG DELIVERY OF MEDICINAL MOLECULES TO THE PLANTS THAT ARE ATTACKED BY BACTERIAL CROP DISEASES, Application No. **202211032152 A**, Date of Publication: **24.06.2022** (Journal **–** Publication - **Indian Patent).**
* SKIN CANCER DETECTION USING DEEP LEARNING, Application No. **202211034826 A**, Date of Publication: **24.06.2022** (Journal **–** Publication - **Indian Patent).**
* DEEP LEARNING BASED STUDY OF CHEMICAL COMPOSITIONS OF NANOMATERIALS FOR THE INTENT OF BONE HEALING CAPACITY, Application No. **202241033383 A**, Date of Publication: **24.06.2022** (Journal **–** Publication - **Indian Patent).**
* MACHINE LEARNING BASED APPROACH TO ANALYZE THE IMPORTANCE OF HEAT AND MASS TRANSFER TECHNIQUES ON THE QUALITY OF FOOD, Application No. **202241034413 A**, Date of Publication: **24.06.2022** (Journal **–** Publication - **Indian Patent).**
* The maximum capacity estimation model for smart apartment management using wireless sensor network, Application No. **202241034936 A**, Date of Publication: **24.06.2022** (Journal **–** Publication - **Indian Patent).**
* AN ADVANCED SYSTEM TO AUTHENTICATE THE PERSON BASED OF FINGER VEIN MATCHING TECHNIQUE TO FACILITATE SAFER FINANCIAL TRANSACTIONS, Application No. **202241035282 A**, Date of Publication: **24.06.2022** (Journal **–** Publication - **Indian Patent).**
* SMART RISK ASSESSMENT FOR SUPERVISED MACHINE LEARNING AND AI IN CLOUD COMPUTING ENVIRONMENT, Application No. **202241035288 A**, Date of Publication: **24.06.2022** (Journal **–** Publication - **Indian Patent).**
* CLINICAL INVESTIGATION OF SENSING AILMENTS IN BRAIN MOVEMENT THROUGH PHYSIOLOGICAL ACTIVITY USING ML TECHNIQUE, Application No. **202241035410 A**, Date of Publication: **24.06.2022** (Journal **–** Publication - **Indian Patent).**
* IoT WEARABLE SMART CLOTHING FOR MINE WORKERS, Application No. **202241035414 A**, Date of Publication: **24.06.2022** (Journal **–** Publication - **Indian Patent).**
* MACHINE LEARNING AND PATTERN RECOGNITION BASED TECHNIQUES IN IMAGE PROCESSING AND ANALYSIS, Application No. **202231029303 A**, Date of Publication: **24.06.2022** (Journal **–** Publication - **Indian Patent).**
* ARTIFICIAL INTELLIGENCE BASED TECHNIQUE TO PREDICT THE COMPONENTS OF ALLOY MATERIALS, Application No. **202231029355 A**, Date of Publication: **24.06.2022** (Journal **–** Publication - **Indian Patent).**
* MACHINE LEARNING BASED APPROACH TO PREDICT THE REGENERATION OF PLANTS AND CROPS THAT ARE INFECTED BY DISEASES, Application No. **202211032156 A**, Date of Publication: **01.07.2022** (Journal **–** Publication - **Indian Patent).**
* ARTIFICIAL INTELLIGENCE BASED APPROACH TO ANALYSE THE IMPACT, THE VEHICLE MISSIONS HAVE ON SURROUNDING ENVIRONMENT AND ITS AIR QUALITY USING GAUSSIAN PLUME MODEL, Application No. **202211033058 A**, Date of Publication: **01.07.2022** (Journal **–** Publication - **Indian Patent).**
* AN ARTIFICIAL INTELLIGENCE BASED APPROACH INTEGRATED WITH THE ASPECTS OF PHOTO-CATALYSIS FOR SAFEGUARDING THE ENVIRONMENT FROM POLLUTION CAUSED BY VEHICLES, Application No. **202211033385 A**, Date of Publication: **24.06.2022** (Journal **–** Publication - **Indian Patent).**
* ROBOTICS BASED SMART SYSTEM TO PROTECT THE CROPS FROM NEGATIVE EFFECTS OF PESTICIDES AND FERTILIZERS, Application No. **202211033609 A**, Date of Publication: **01.07.2022** (Journal **–** Publication - **Indian Patent).**
* A NEW BANDAGING CONCEPT INTEGRATED WITH NANOPARTICLES TO SUPPORT FOR HEALING OF WOUNDS IN DIABETIC PATIENTS, Application No. **202211034054 A**, Date of Publication: **01.07.2022** (Journal **–** Publication - **Indian Patent).**
* DESIGN OF SOLAR THERMAL POWER INTEGRATION SYSTEMS TO INCREASE THE EFFICIENCY OF UTILISATION OF RENEWABLE ENERGY RESOURCES IN HOUSING UNITS, Application No. **202211035079 A**, Date of Publication: **01.07.2022** (Journal **–** Publication - **Indian Patent).**
* BIO-TECHNICAL INTERVENTIONS FOR PRECISION AGRICULTURAL ASPECTS ALONG WITH CROP MONITORING ANALYSIS, Application No. **202211035299 A**, Date of Publication: **01.07.2022** (Journal **–** Publication - **Indian Patent).**
* DEEP LEARNING TECHNIQUES FOR MONITORING THE HEALTH OF SOIL ALONG WITH CROPS USING UNMANNED AERIAL VEHICLE (UAV) TECHNIQUES, Application No. **202221025527 A**, Date of Publication: **01.07.2022** (Journal **–** Publication - **Indian Patent).**
* PATENT DATA LAKE WITH BLOCKCHAIN AND IOT - ENABLED ACCESS CONTROL, Application No. **202241035681 A**, Date of Publication: **01.07.2022** (Journal **–** Publication - **Indian Patent).**
* BIOMEDICAL INTERVENTIONS FOR ANALYSING THE PROTEINS AND GENETIC FACTORS THOSE ARE RESPONSIBLE FOR CAUSING CANCER, Application No. **202241035945 A**, Date of Publication: **08.07.2022** (Journal **–** Publication - **Indian Patent).**
* MACHINE LEARNING BASED APPROACH TO STUDY AND ANALYZE THE PHARMACOGENOMICS ON ANTI CANCER DRUG MOLECULES, Application No. **202241036247 A**, Date of Publication: **08.07.2022** (Journal **–** Publication - **Indian Patent).**
* MACHINE LEARNING TECHNIQUES TO ANALYZE THE IMPORTANCE OF NANOPARTICLES IN HEALING OF WOUNDS IN PATIENT's POST OPERATIVE CARE, Application No. **202241036249 A**,Date of Publication: **08.07.2022** (Journal **–** Publication - **Indian Patent).**
* The sentimental analysis-based disease estimation and health risk prediction system, Application No. **202241037150 A**, Date of Publication: **08.07.2022** (Journal **–** Publication - **Indian Patent).**
* Cloud and IoT-based disease prediction and diagnosis system for healthcare using Fuzzy neural classifier, Application No. **202241037484 A**, Date of Publication: **08.07.2022** (Journal **–** Publication - **Indian Patent).**
* Biopolymer Composition for Anastomosis Devices and Its Preparation Method Thereof, Application No. **202241038273 A**, Date of Publication: **08.07.2022** (Journal **–** Publication - **Indian Patent).**
* MACHINE LEARNING BASED MODEL TO PREDICT THE CHARACTERISTICS OF NEWBORN BY ANALYSIS OF GENOME SEQUENCES, Application No. **202231031043 A**, Date of Publication: **08.07.2022** (Journal **–** Publication - **Indian Patent).**
* MACHINE LEARNING BASED TECHNIQUE TO ANALYZE THE VARIOUS NANO CHEMICAL COMPOUNDS TO BE USED AS FERTILIZERS, Application No. **202231031045 A**, Date of Publication: **08.07.2022** (Journal **–** Publication - **Indian Patent).**
* Maintenance of Data integrity and security in the cloud using IOT-based audio watermarking approach, Application No. **202231032850 A**, Date of Publication: **08.07.2022** (Journal **–** Publication - **Indian Patent).**
* DESIGNING A NEW DRESSING BANDAGE TO THE FRACTURED WOUND ESPECIALLY IN DIABETIC PATIENTS, Application No. **202231034414 A**,Date of Publication: **08.07.2022** (Journal **–** Publication - **Indian Patent).**
* AUTOMATIC STROKE DETECTION AND CLASSIFICATION USING A CONVOLUTIONAL NEURAL NETWORK AND BRAIN CT IMAGE MATCHING, Application No. **202221027263 A,** Date of Publication: 15/07/2022 (Journal **–** Publication - **Indian Patent).**
* AN AUTOMATED SYSTEM TO DECIDE ABOUT THE PRICE OF PRODUCTS LISTED ON E-COMMERCE SITE FOR EFFICIENT FINANCIAL MANAGEMENT, Application No. 202221028320 A, Date of Publication: **15/07/2022** (Journal **–** Publication - **Indian Patent).**
* AN IoT AND DEEP LEARNING BASED AIR POLLUTION MONITORING AND PREDICTION IN SMART CITY, Application No. **202241037345 A**, Date of Publication: **15/07/2022** (Journal **–** Publication - **Indian Patent).**
* SECURE OVER DATA PRIVACY USING KNN CLASSIFICATION IN IOT DEVICES IN MACHINE LEARNING APPROACH, Application No. **202241038492 A**, Date of Publication: **15/07/2022** (Journal **–** Publication - **Indian Patent).**
* Indoor occupancy detection and estimation using machine learning and measurements from an IoT LORA-based monitoring system, Application No. **202241038980 A**, Date of Publication: **15/07/2022** (Journal **–** Publication - **Indian Patent).**
* IoRCar: IoT supported automatic robotic movement and control, Application No. **202241038981 A**, Date of Publication: **15/07/2022** (Journal **–** Publication - **Indian Patent).**
* Developing vehicular data cloud services in the IoT environment, Application No. **202241039564 A**, Date of Publication: **15/07/2022** (Journal **–** Publication - **Indian Patent).**
* Designing a WSN platform for long term environmental monitoring for IoT applications. Application No. **202241037755 A**, Date of Publication: **22/07/2022** (Journal **–** Publication - **Indian Patent).**
* AI-based early detection of lung cancer and classifying its stages using machine learning algorithm, Application No. **202241038946 A**, Date of Publication: **22/07/2022** (Journal **–** Publication - **Indian Patent).**
* Ubiquitous data accessing method in IoT based information system for emergency medical services, Application No. **202241039561 A**, Date of Publication: **22/07/2022** (Journal **–** Publication - **Indian Patent).**
* IoT based Biometric attendance system on automatic body temperature screening using Machine Learning algorithm, Application No. **202241040490 A**, Date of Publication: **22/07/2022** (Journal **–** Publication - **Indian Patent).**
* A deep learning models for vulnerability detection and smart protection of various transactions in financial institutions, Application No. **202241040650 A**, Date of Publication: **22/07/2022** (Journal **–** Publication - **Indian Patent).**

**Honors**

* Vice President – WELTTA – State Level Association for Language Teaching and Training (https://www.welltta.org/about-us).
* Reviewer – ICEICT – 2022.
* Achiever – Bioinformatics – ACE International Pte. Ltd, Singapore -2020-2021 – ISBN No. -978-981-18-1264-4, Pg. No.22.
* Technical and Scientific Advisor – IBAM.
* Organizing Committee Member-Technical and Scientific-EAI ITSPWC 2022.
* Guest Speaker – CSIR Sponsored Webinar on Biomarkers – 25.02.2022 – Hindustan College of Engineering and Technology, Coimbatore, Tamil Nadu, India.
* Best Researcher Award – ICEACBS 2022.
* Appreciation for Excellence – Guest Speaker – Webinar & Workshop – Online Tools for Sequence Analysis – 15th and 16th Dec. 2021.Organizer: Sanskriti University, Mathura, U.P., India.
* Permanent Guest Speaker in the FDPs and International Seminar conducted by WELLTA Forum.
* Chief Editor – Book – Applied Physics and Chemistry – Nova Publishers, USA.
* Advisory Board Member - Acta Scientific Computer Sciences – Indexing: *Publons* and *Google Scholar*
* Reviewer & Editorial Board Member – *Sci Technol. Jour. Bioengg. & Med.Technol*.- Indexing: Google Scholar.
* Program Committee Member - EAI ITSPWC 2022.
* Reviewer-IGI Global (Books and Journals-Open Access)-Scopus Indexed.
* Reviewer- Journal of Pure and Applied Microbiology (Scopus Indexed, ISSN: P: 0973-7510, O: 2581-690X)
* "Reviewer" for Computational Biology and Bioinformatics book to understand the process of gene regulation

concerning the biomolecular interaction between Gene-RNA-Protein to enhance the study on Epigenetics, CRC

Press (Taylor & Francis Group), November 2019.

* "Editorial Board Member" in "EC Clinical and Medical Case Reports."
* "Member" in "United Research Forum (UK)" and provide technical assistance in conducting conferences and publishing manuscripts in peer-reviewed journals.
* "Reviewer" in "Scopus (Elsevier) Indexed" Sudi Journal of Biological Sciences and Current Medicinal Chemistry.
* "Proof Reader and Editor" in the Editorial Board of "Science Text Books."
* "Mentor" in Publons for guiding students in the process of peer review in 2021.
* "Best Young Scientist" to present my research work on "Computational Analysis of Gene Regulation" at an International Conference conducted by SynBiogenica, India, and Ace International Pvt., Ltd., Singapore 2020.
* Reviewer of Excellence in 2020 by the Journal of Advances in Medicine and Medical Research.
* "Honorable guest and Guide": MICROSCOPIAs Project in 2020 (An innovative association for the dynamic students in life sciences).
* "Innovative Teacher": ACARS foundation in 2020.
* An applicant for the Indian Patent on "AN APPROACH FOR EMPOWERING EDGE COMPUTING FOR SOURCE ALLOCATION BASED LEARNING FOR INDUSTRIAL IOT." Reference Nos. 202041023028 A, H04L 29/08. Date of Publication: 12.06.2020.
* "Junior mentor": Projects of IIRO in 2020.
* Honorary Rosalind Member: London Journal Press in 2020 (Membership Id DQ08633)**.**
* Guest Editor for Special Issues: Bioinformatics and Pharmacology in International Journal of Life Science and Pharma Research, 2020.
* Reviewer: Journal of Immunology in 2020.
* Editorial Board Member: Journals in Glacier Research Foundation in 2019.
* Reviewed 101 Manuscripts in 2021 (Reference: Publons)
* Reviewed 16 Manuscripts in 2020 (Reference: Publons)
* Reviewed 7 Manuscripts in 2019 (Reference: Publons)
* Reviewer for Journals in Medcrave Open Access Corporation of the USA from 2014-2020.
* Reviewer for the Journal of Egyptian Human Genetics in 2014.

**Award of Excellence – Best Researcher**

* ICEACBS 2022 (Virtual Event) **– Dates:** January 22, 23 & 26. 2022.

**Outstanding Scientist Award**

* INSO, Date of Award: 18.06.2022, Place of Award: Coimbatore, Tamil Nadu, India.

**Best Young Faculty Award**

* IAC, SPEAM 2022, KRA. 24.04.2022.

**Committee Member**

* International Conference on Multidisciplinary Research (ICMR-2021, Dates: Nov. 26 & 27, 2021).

**Judge- Idea Hackathon- National Level**

* Events Conducted by Veridian Micro Lab Pvt. Ltd., Kelambakkam, Chennai on 03rd and 04th September 2021.

**Chair Person**

* Special Sessions on "Applied Geospatial Informatics and Environmental Engineering" and "Computational Bioengineering" in "2022 Second International Conference on Computer Science, Engineering and Applications (ICCSEA), Co-Sponsored by IEEE- Kolkata Section, IEEE-Bhubaneswar Subsection & IEEE-USA, Reference: IEEE Conference Record No. 54677, Date: September 8, 2022".

**Committee Member**

* International Conference on Multidisciplinary Research (ICMR-2021, Dates: Nov. 26 & 27, 2021).

**Judge- Idea Hackathon- National Level**

* Events Conducted by Veridian Micro Lab Pvt. Ltd., Kelambakkam, Chennai on 03rd and 04th September 2021

**Judge – Poster Presentation – International Scientific Writing Workshop**

* . The event was conducted by IABM & FIIE, D.Y. Patil Vidyapeeth, Pune on Jan. 8th & 9th, 2022 (Virtual Mode).

**AIB Facilitator Excellence Award**

* Association of Indian Biologists (AIB), Tamil Nadu, India, on 8th Aug. 2021.

**Innovative Technological Researcher**

* Association of Innovative Scientific Research Professional, Malaysia, in 2020.

**Organizer – Special Session – Applied Bioinformatics**

* **3rd DOCTORAL SYMPOSIUM ON COMPUTATIONAL INTELLIGENCE (DOSCI 2022) Organised by the Institute of Engineering & Technology, a constituent college of Dr. APJ Abdul Kalam Technical University Lucknow, India, in association with the University of Calabria, Italy  
  March 5, 2022.**

**Dynamic Professional Award**

* Indian Pharma Educational Society (IPES), Lucknow awarded me as a “**Dynamic Professional**” in the First Virtual-Annual Award Ceremony (AAC) on Nov. 23, 2020, in collaboration with Pharma Tutor and St. Dominic College of Asia.

**Distinguished Professor Award**

* Indian Pharma Educational Society (IPES), Lucknow awarded me as “**Distinguished Professor**” in the Second Virtual-Annual Award Ceremony (AAC) on Dec. 30, 2021, in collaboration with Pharma Tutor.

**Young Scientist Award**

* IJIMER (International Journal for Innovative Engineering and Management Research) – Elsevier SSRN (Social Science Research Network) Research Awards 2021**.**

**Young Investigator Award**

* Young Investigator Award for young scientists in India & Southeast Asia in ICID-2016, the event was

Sponsored by the "International Society for Infectious Diseases" and the foundation of Bill & Melinda Gates

In "The 17th International Congress on Infectious Diseases, Hyderabad, India (March 2-5, 2016).

**Best Paper Award-Faculty Category**

* Best Paper Award for an outstanding presentation in the domain of "Therapeutic Peptides" in the category of "Faculty" entitled "Impact of BCL-2 Peptide in SARS-Cov-2" in the two-day virtual conference entitled "Understanding the Impact of COVID-19" organized by the Department of Biotechnology & Microbiology, Hindustan College of Arts and Science, Padur, Chennai on 29th & 30th September 2021.
* Best Paper Award for an outstanding presentation in the domain of "Bioinformatics and Systems Biology" in the category of "Faculty" entitled "Computational Analysis of MicroRNA based gene regulation by Top-Down Approach" in two days (November 5 and 6, 2020) international web conference "Bioinventiyon-Advances in Biosciences" jointly organized by "National Institute of Plant Science Technology (NIPST)," "Mahathma Gandhi University" and "International Quality Assurance Cell (IQASC), SAFI Institute of Advanced Study (SIAS).
* Best Paper Award for an outstanding presentation in the domain of "Functional Genomics" in the category of "Faculty" entitled "Computational Analysis of miRNA based Pharmacogenomic Regulation in Psoriasis" in the Third International Conference on "Conservation of Nature and Siddha Medicine (CNRTSPA - 2020) held on 14-15 December. Type: International Conference, organizer: William Research Centre, Nagercoil, Kanyakumari, Tamil Nadu, India."

**Best Oral Presentation Award**-ICEACBS 2022 (Jan 22, 23 & 26)

* Regulatory Analysis of PPAR Signaling Pathway Reveals Pathogenic Association in Invasive Ductal Carcinoma (IDC).

**Best Paper Award-External Guide-Bioinformatics Category**

* Outstanding presentation in "Red Biotechnology" entitled "The impact of single amino acid mutation in SARS COV-2" in WBBT-2020.Organizer: Department of Biotechnology, Kamaraj College, Madurai District, Tamilnadu, India, during 25-27 June 2020.

**Best Paper Award-Researcher Category**

* Prof R. Gurumoorthys Best Oral Presentation Award for presenting a research paper entitled "PharmiR: a new methodology to predict therapeutic miRNAs" in the "National Conference on Advances in Chemical Sciences and Engineering" held on 6th and 7th March 2014 @ SCSVM University, Kanchipuram, Tamilnadu, India.

**Best Scientist and Faculty Awards**

* William Research Institutes Best Faculty Award in Bioinformatics in 2021.
* ESN Publications Academic Excellence Award 2021.
* GMRAF Young Faculty Excellence Award 2020.
* IBAE Research Achievement Award 2020.
* I­2OR National Eminent Educator Award 2020.
* GISR Foundation's Research Achievement Award (Male) 2020.
  + - * Novel Research Academy's Best Young faculty award 2019 in Bioinformatics.
      * Nature Science Foundation's Best Faculty Award 2019 in Functional Genomics and Systems Biology.
      * VD. Good Organization's Young Scientist Award 2020.
      * VOICE organization's Best Assistant Professor Award 2020.

**Peer Review Award**

* **Publons Award**: Maintaining quality in the process of peer review towards publications in 2018.

**Completed FDPs**

* I completed the FDP on "Moodle Learning Management System" conducted by Spoken Tutorials, I.I.T. Bombay from 1-31 January 2020.
* I completed the MHRD Sponsored Program on "Cheminformatics Workshop for Teachers" held at Pune University from January 13-18, 2020.
* I completed the FDP on "R Programming" conducted by Spoken Tutorials, I.I.T. Bombay from 19-24 April 2020.
* Completed the FDP on "Future Challenges, Possibilities and Emerging Trends in Vaccines and Drug Development for Viral Diseases" Conducted by the Indian Pharmaceutical Education Society (IPES) from 25-30 May 2020.
* I completed the FDP on "Bioinformatics as a Cartographic Tool in Drug Discovery" conducted by the Department of Bioinformatics, Alagappa University, Karaikudi, from 19-30 May 2020.
* I completed the FDP on "Health Care and Clinical Research" conducted by the Department of Biomedical Engineering, School of Bio and Chemical Engineering, Sathyabama Institute of Science and Technology, Chennai, from 04-10 June 2020.
* I completed the FDP on "Advancements in Biotechnology and Chemical Engineering" organized by the Department of Chemical Engineering and Biotechnology, VIT, during 08-19 June 2020.
* I completed the FDP on "Advanced Data Science" organized by BVRIT, Hyderabad, from 22.06.2020 – to 26.06.2020.
* I completed the FDP on "Research Writing" organized by Patrician College of Arts and Science, Chennai, from 22.06.2020 – to 28.06.2020.
* I completed the FDP on "Scilab" organized by Spoken Tutorial, I.I.T. Bombay from 15.06.2020 – 19.06.2020.
* I completed the FDP on "PHP and MySQL" organized by the "Department of Computer Science, BMS College for Women" associated with Spoken Tutorial, I.I.T. Bombay [NMEICT, MHRD, Govt. of India] from 17.06.2020 – 21.06.2020.
* I completed the FDP on "Data Interpretation" organized by the Department of Chemistry, SIST, Chennai, from 15.06.2020 – to 19.06.2020.
* I completed the FDP on "Applications of Machine Learning and Deep Learning" organized by RKGIT, Ghaziabad, from 24.06.2020 – to 28.06.2020.
* I completed the FDP on "Yoga" organized by Dr. M.G.R. Educational and Research Institute, Chennai, from 15.06.2020 – to 19.06.2020.
* I completed the FDP on "Natural Language Processing (NLP)" organized by REVA University, Bengaluru, from 30.06.2020 – to 04.07.2020.

**MOOCs**

* I completed the medical certificate courses conducted by "Jackson Laboratory and American Medical Association, USA" and achieved 6.5 credit points.
* I Completed the UNESCO-sponsored MOOC entitled "Improving Assessment through Bloom's Taxonomy and Rubrics" with an **A** grade offered under Open Education for Better World (OE4BW) project. The course convener is Dr. Kavita Bhatra, Associate Professor, Manohar Memorial Education Society, Fatehabad, Haryana, India.

**Resource Person: Workshops, Symposiums, Webinars, Guest Lectures and FDPsai**

* Guest Speaker – Bioinformatics - Expert Talk Series – Drug Design & Development – 12.07.2022 – Sathyabama Institute of Science and Technology, Chennai.
* Guest Speaker – Online Summer Course – Opportunities Don’t Happen, You Create Them – 09.07.2022 - S.A. Engineering College, Chennai, Tamil Nadu, India.
* Guest Speaker – NGS Workshop – IABM Workshop (Virtual) – April 9th & 10th, 2022.
* Special Faculty – Two Week (Mar.1 – 15, 2022) Bioinformatics Internship Program (Virtual Mode).
* International Symposium-Bioinformatics Indica 2022: Delivered “Young Scientist Talk” on “Combinatorial Machine Learning Strategies to analyze genome sequences of SARS-Cov-2” on 06th-08th January 2022. Organizer: Department of Computational Biology & Bioinformatics, University of Kerala.
* Virtual Webinar: Comparative Modeling and Simulation of BBTV, Oct. 23-24, 2022, organizer: Sans. Uni.,
* Virtual Workshop: Application of Bioinformatics to enhance the Life Sciences, Organizer: PG & Research Department of Zoology, Kamaraj College, Thoothukudi in collaboration with Nature Science Foundation, Coimbatore. Date: Dec. 29th and 30th of 2021.
* International Scientific Writing Workshop: Jan. 8th & 9th Jan. 2022. Organizers: IABM & FIIE, D.Y. Patil Vidyapeeth, Pune.
* Virtual Webinar & Workshop: Online Tools for Sequence Analysis – 15th and 16th Dec. 2021.Organizer: Sanskriti University, Mathura, U.P., India
* Virtual FDP-International: Professional Writing of Journal Papers, WELLTTA Event:26.10.2021
* Virtual Seminar-International: Impact of Research and Development in Career Growth, WELLTTA Event: 07.11.2021.
* Virtual FDP-International: Entrepreneurship Opportunities in Research and Development, WELLTTA Event: 17.11.2021.
* Webinar: Impact of Publication in R&D, Welta Group.
* Webinar: Impactof **Publication** in **Academics** and **Research** for the faculties and students in **Sri Krishna Arts and Science College**, Coimbatore, Tamil Nadu, India on 24.05.2021.
* Webinar: Impactof **Publication** in **Academics** and **Research (Extension-I) Research** for the faculties and students in **Sri Krishna Arts and Science College**, Coimbatore, Tamil Nadu, India on 05.10.2021.
* Workshop: Biomolecular Structural Analysis the faculties and students in the Department of Bioscience (Under DBT Star College Scheme), **Sri Krishna Arts and Science College**, Coimbatore, Tamil Nadu, India on 08.10.2021.
* Webinar: Impact of **Pharmacogenomics** and **MicroRNA** Regulation in **Pathogenesis** of **Psoriasis**.Organizer: **Ryan** Publishers, Trichy, Tamil Nadu, India on 16.10.2021.

**Publication in Science Magazine**

* ***https://loopsnstrands.com/why-bioinformatics-is-inevitable-for-life-sciences-7d93fe8dee04***

**Details of Research Publications**

*Opinion*

* Harishchander A, Recent Trends in Application of Artificial Intelligence in Prediction and Optimisation of Biomolecular Interactions, *EC Clinical and Medical Case Reports* 2021, 4 (11):60.
* Harishchander A, Pharmacogenomic based miRNA Regulation in Tuberculosis: An Initiation towards the Discovery of Systemic Biomarkers to Treat Tuberculosis in Future. 2018, *J Tuberc Ther* 3: 117.

*Short Communications*

* Harishchander A, Computational Analysis of Peptides in Geobacter sulfurreducens Associated with Industrial Pollution, Archives of Industrial Biotechnology 2018 2 (1):1.
* Harishchander A, A Computational Approach for Identifying the Impact of Pharmacogenomics in Regulatory Networks to Understand Disease Pathology. *J Bioengineer & Biomedical Sci* 2017, **7**: 235.
* Harishchander A, A Computational Approach to Predict A Novel MicroRNA From The Associated Genes Of Cutaneous Lichen Planus: An Initiation Towards The Discovery Of Therapeutic Biomarkers. *J of Biosens Biomark Diagn* 2018 3(1): 1-5.

*Mini-Reviews*

* Harishchander A, Aarthi Rashmi B\*, A review on Biomarker based therapeutics in pancreatic ductal adenocarcinoma, Adv Tissue Eng Regen Med Open Access. 2020; 6(3):61-63.
* Harishchander A\*, Aarthi Rashmi B, A review on nano informatics and bioinformatics in nanomedicine, Adv Tissue Eng Regen Med Open Access. 2020; 6(3):53‒56.
* Harishchander Anandaram, A Review on the Impact of Genetics and Genome-Wide Association Studies in Autoimmunity. *MOJ Proteomics Bioinform* 2017, 6(4): 00203.
* Harishchander A, A Review on Application of Bioinformatics in Medicinal Plant Research. Bioinform *Proteom Open Acc J* 2017,**1**(1): 104.
* Harishchander Anandaram, A Review on the Impact of Long Non-Coding R.N.A.s in Psoriasis. *BAOJ Aller* *Immunol* 2017,**3**:014.

*Book Chapters*

* Harishchander A, Aarthi Rashmi B, Computational Analysis and Lead Molecular Discovery to treat Pancreatic Ductal Adeno Carcinoma: An Initiation towards Rational Drug Design.Multidisciplinary Research, Volume 2,67-74, **ISBN**: 978-93-90996-57-5 (Eds. Sruthi.S and Dr. Ravi Kumar Gupta, Archers & Elevators Publishing House, Bangalore-560090, India).
* Harishchander A, Computational Analysis and Mathematical Modeling of miRNA in Gene Regulation. (Chapter: 13, 252, 2021) Theme: Integrated Management, Publisher: Eureka ISBN: 978-81-950380-60.
* Harishchander A, Aarthi Rashmi B, Pravitha KS, Impact on Education System in Kerala (Chapter 17, 242, 2021). Publisher: Bhopal School of Social Sciences. **ISBN** 978-81-945302-7-5.
* Harishchander Anandaram, Insilico Analysis and Mathematical Modeling of Gene Regulatory Networks in Psoriasis (Chapter 9, Pages 88-94, 2021). "Recent Challenges in Science, Engineering and Technology," Krishna Publication House, Gujarat. **ISBN**: 978-81-947388-5-5.
* Harishchander Anandaram, Computational Analysis and Mathematical Modeling of MicroRNAs, Transcription Factors and Pathways to understanding Gene Regulation in Psoriasis (Chapter 24, Pages. 177-182, 2020). "New Approaches: Challenges and Opportunities." *GMRAF Publishers.* **E-ISBN**: 978-93-87865-44-0.
* Harishchander Anandaram, Role of Bioinformatics in Nano Technology: An initiation towards personalized medicine, Copyright: 2020, **Source Title**: Data Analytics in Medicine: Concepts, Methodologies, Tools, and Applications, *IGI. Global Publishers***, DOI**: 10.4018/978-1-7998-1204-3.ch094, ***Part of* ISBN**: 9781799812043.
* Harishchander Anandaram, Role of Bioinformatics in Nano Technology: An initiation towards personalized medicine (chapter **11**, Pages 293-317, Copyright: 2017). "Integrating Biologically-Inspired Nanotechnology into Medical Practice." *IGI. Global Publishers*, DOI: 10.4018/978-1-5225-0610-2.ch011, *Part of* **ISBN**: 9781522506102.

*Review Articles*

* Aarthi Rashmi B, Harishchander A, Thirunavukkarasu Sivaraman, An outlook on druggable targets to combat pancreatic ductal adenocarcinoma, Int. J. Life Sci. Pharma Res. ISSN 2250 – 0480; SP-08; "Advancements in Applications of Microbiology and Bioinformatics in Pharmacology" 2020.
* Harishchander Anandaram, A Review on Long Non-Coding R.N.A.s (lncRNAs) and its Applications in Aging. *ABOA* 2018*,* **1**(1):105.
* Anandaram H, A Review on the Application of RNA-based Nanotechnology in In Vivo Computation. J NanosciCurrRes 2018, 3(1):117.
* Harishchander Anandaram, A Clinical Review on the Epidemiology and Pathophysiology of Psoriatic Arthritis. Adv Biotech OA 2017*,* **1**(1):003.
* Daniel Alex Anand, Harishchander Anandaram, A Review on Global Prevalence and Recent Advancements in the Genetics of Psoriasis. *MOJ Proteomics Bioinform* 2017, **6**(2): 00189.
* Harishchander Anandaram, Daniel Alex Anand, A Review on Micro RNAs and its Application in Psoriasis. *MOJ Proteomics Bioinform* 2017,**6**(1): 00184.
* Harishchander Anandaram, A Review on Application of Biomarkers In The Field of Bioinformatics & Nanotechnology for Individualized Cancer Treatment. *MOJ Proteomics Bioinform* 2017, **5**(6): 00179.

*Research Articles*-***Material Science***

* B. Yogeswari, K. S. Tamilselvan, S. Thanikaikarasan, N. Dayanand Lal, Harishchander Anandaram, J. Madhusudhanan, R. Karthik, Areda Batu, "Quantum Density Functional Theory Studies on Additive Hydration of Tuftsin Tetrapeptide", *Journal of Nanomaterials*, vol. 2022, Article ID 2830708, 17 pages, 2022. <https://doi.org/10.1155/2022/2830708>.
* Maheshna, N., Roopa, D., Karthick, R., Anandaram, H., Antony, J. P., Sangeetha, R. K., & Anusuya, M. (2022). Green synthesis of titanium dioxide nanoparticles and their multifaceted applications. *International Journal of Health Sciences*, *6*(S3), 5665–5680. <https://doi.org/10.53730/ijhs.v6nS3.7210>.
* Gowtham S, Anil Kumar T, Latha Devi NSMP, Kalyan Chakravrthi M, Pradeep Kumar S, Karthik R, Harishchander Anandaram, Manoj Kumar N, Kiran Ramasamy, "A Survey on Additively Manufactured Nanocomposite Biomaterial for Orthopedics Applications", Journal of Nanomaterials 2022, Article ID 8998451,  <https://doi.org/10.1155/2022/8998451>.

*Research Articles-****Systems Biology***

* Ghazala Sultan, Swaleha Zubair, Inamul Hasan Madar, Harishchander Anandaram, Computational Approach to Identify Regulatory Biomarkers in the Pathogenesis of Breast Carcinoma, *International Journal of Advanced Computer Science and Applications*, Vol. 13, No. 6, 2022.
* Harishchander Anandaram, Daniel Alex Anand, Aarthi Rashmi B, Computational Analysis and Mathematical Modeling of Pathogenesis in Psoriasis. INTERNATIONAL JOURNAL OF LIFE SCIENCES RESEARCH 3 (2), 2021:52-55.
* Harishchander Anandaram, Daniel Alex Anand, Computational Analysis and Mathematical modeling of the implication of Micro RNA in the Transcriptional Regulation of Psoriasis. WAFFEN-UND KOSTUMKUNDE JOURNAL 2020, XI (XII): 16-34.
* Aarthi Rashmi B, Harishchander A, Pathway Reconstruction of Pseudomonas aeruginosa. WAFFEN-UND KOSTUMKUNDE JOURNAL 2020, XI (XII): 11-14.
* Harishchander Anandaram, Daniel Alex Anand, Computational Analysis of Pharmacogenomics and miRNA regulatory networks in Psoriatic Arthritis. *Elseviers Biocatalysis and Agricultural Biotechnology* 2018, 16:545-547.
* Anandaram H. A Computational Approach to Identify the Transcription Factor-Based MicroRNA (miRNA) Regulation Involved in the Disease Pathology of Psoriasis. *Funct. Struct. Genomics Med.* 2018, **1**(1):103.
* Harishchander Anandaram, A computational approach to identify microRNA (miRNA) based Biomarker from the regulation of disease pathology. Biol. Med. Case Rep. 2018, **2**(2):12-25.
* Harishchander Anandaram, A computational approach to identify microRNA (miRNA) based Biomarker of Pharmacovariant from the regulation of disease pathology. MOJ Proteomics Bioinform.2018, 7(3):152‒ 170.
* Harishchander Anandaram, Computational Analysis of Pharmacogenomic Based Regulatory Network in Psoriasis: An Approach of Systems Biology to Initiate the Discovery of Systemic Biomarkers to Treat Psoriasis. *Syst Comput Biol J* 2018, 1: 5.
* Harishchander Anandaram, Computational Analysis of Pharmacogenomic based Regulatory Network in Psoriasis by Direct Approach: an Approach of Systems Biology to Initiate the Discovery of Biomarkers to Treat Psoriasis. ABOA 2018, 1(1):104.
* Harishchander Anandaram, Computational Analysis of Pharmacogenomic based Compatibility of Micro RNA in Regulatory Network of Psoriasis: A Bioinformatics approach to initiate the discovery of Systemic biomarkers to treat Psoriasis. *Op Acc J Bio Eng & App* 2018, 1(1): OAJBEA.MS.ID.000101.
* Harishchander Anandaram, Computational Analysis of Expression Based Regulation in Psoriasis: An Approach of Systems Biology to Understand Disease Pathology and Predict Potential Regulators. *J Sys* *Biol Res* 2017, 1(1): dx.doi.org/10.16966/jsbr.101.
* Harishchander Anandaram, Computational Analysis of Pharmacogenomic Based Regulatory Networks in Psoriatic Arthritis: An Initiation towards Identifying a Potential Biomarker to Treat Psoriatic Arthritis. *Adv* *Biotech OA* 2017, 1(1):002.
* Harishchander Anandaram, Computational Analysis of Regulatory Network in Psoriasis by Top-down approach: An initiation towards identifying a novel biomarker to diagnose and treat Psoriasis in Future. *Med Rep Case Stud* 2017, 2(3): 143.
* Harishchander Anandaram, Impact of MicroRNA as a biomarker for Psoriasis: A Computational approach

To disease pathology. *Medplus J Bio info Biotech* 2017, **1**(1): 001.

*Research Articles-****Bioinformatics***

* Alagumeena S, Harishchander A, Aarthi Rashmi B, Comparative modeling and simulation of Replication Initiation Protein in Banana BunchyTop Virus, International Advanced Research Journal in Science, Engineering and Technology **(**ISSN (O) 2393-8021, ISSN (P) 2394-1588**),** Vol. 8, Issue 10, October 2021**.**
* Harishchander A, Annapoorna C, Saranya N, Madhumitha C, An initiation towards identifying a new chemical Entity to treat cancer by homology modeling and Docking of colca2. International Journal of Advanced Science and Technology, Vol. 29, No.02, (2020), pp. 1141-1147.
* Jawahar S, Harishchander A, Devaraju S, Ahamed johnsha Ali, Manivasagan C, Sumathi P, closed sequential

pattern mining in biological data, Int J Life Sci Pharma Res. ISSN 2250 – 0480; SP-08; "Advancements in Applications of Microbiology and Bioinformatics in Pharmacology" 2020.

* Jawahar S, Harishchander A, Devaraju S, Reshmi S, Manivasagan C, Sumathi P, Efficiently mining closed sequence patterns in DNA without Candidate generation, Int J Life Sci Pharma Res. ISSN 2250 – 0480; SP-08; "Advancements in Applications of Microbiology and Bioinformatics in Pharmacology" 2020.
* Harishchander A, Jawahar S, Aarthi Rashmi B, Annapoorna C, Saranya N, Alex Anand D, Acomputational approach to identify the co-expression-based microRNA (miRNA) regulation in the disease pathology of Psoriasis, Int J Life Sci Pharma Res. ISSN 2250 – 0480; SP-08; "Advancements in Applications of Microbiology and Bioinformatics in Pharmacology" 2020.
* Harishchander A, Jawahar S, Aarthi Rashmi B, Annapoorna C, Saranya N, Alex Anand D, Computational analysis of miRNA based translational repression and protein-protein interaction network in Psoriasis by a top-down approach, Int J Life Sci Pharma Res. ISSN 2250 – 0480; SP-08; "Advancements in Applications of Microbiology and Bioinformatics in Pharmacology" 2020.
* Harishchander A, Aarthi Rashmi B, Comparative Modelling, Virtual Screening and Docking of CCR5 with Diverse Libraries. J. Biol. Today's World. 2019, 8(3):4.
* Aarthi Rashmi B, Harishchander A, Priyanka K, Vasanth Nirmal Bosco, Molecular Docking of Antitrypanosomal Inhibitors from Eucalyptustereticornisfor Sleeping Sickness, *Asian J*. *Pharm*. *Clin*. *Res*. 2019, **12**(9):191-195.
* Harishchander Anandaram, Homology Modeling of P30481: A novel drug target for Psoriasis. EC. *Proteomics and Bioinformatics* 2017, **1**(1): 27-35.
* Harishchander Anandaram, Modeling of Gag PolyproteinIsolate NY5 of H.I.V. Type1 Group M Subtype B by Threading Method: A Bioinformatics Approach. *BAOJ Aller Immunol* 2016, **3**(1): 008**.**
* Harishchander Anandaram, Insilico Analysis of Micro RNA. Based Target Interaction: Potential implication in the Pharmacogenomics of Psoriasis. *MOJ Proteomics Bioinform..* 2016, **4**(4): 00129.
* D. Alex Anand, A. Harishchander, U.B. Jason. An integrated network analysis of Psoriasis: A novel approach to disease pathology. *Asian J*. *Pharm*. *Clin*. *Res*. 2015, **8**(3):176-178.
* Harishchander Anandaram, Daniel Alex Anand. Computational analysis of micro RNA-based target interactions related to genome-wide association studies of Psoriasis. *J*. *PURE APPL. MICROBIOL.* 2014, **8**(SPL. EDN.):823-826.
* Harishchander Anandaram, Daniel Alex Anand. Binding site analysis of microRNAs target interaction from genome-wide association studies. *Asian J*. *Pharm*. *Clin*. *Res*. 2014, **7**(3):121-122.
* Harishchander Anandaram, Daniel Alex Anand. A computational approach for identifying therapeutic micro RNAs. *Int*. *J*. *Pharm*. *Pharm*. *Sci*. 2014, **6**(6):638-640.

*Research Articles*-***Psychology***

* Bosco Ekka, Dr. G. Albin Joseph, Prince Verma, Dr. Harishchander Anandaram, Dr. Mohd Aarif, A Review Of The Contribution Of Youth To Sustainable Development And The Consequences Of This Contribution, *Journal of Positive School Psychology*  <http://journalppw.com>, 2022, Vol. 6, No. 6, 3564-3574.
* Dr. Nisha Sharma, Anil Kumar Yadava, Dr. Mohd Aarif, Dr. Harishchander Anandaram, Dr. Ali Alalmai, Chandradeep Singh, Business Opportunities And Challenges For Women In The Travel And Tourism Industry During Pandemics Covid-19, *Journal of Positive School Psychology*  <http://journalppw.com>, 2022, Vol. 6, No. 6, 897-903.

*Structured Abstracts*

* ANANDARAM, H., & Alex Anand, D. (2021). Mathematical Modeling of Regulatory cascade in Psoriasis. *SPAST Abstracts*, *1*(01). https://spast.org/techrep/article/view/85
* H. Anandaram, D. Alex Anand.Computational Analysis of miRNA based Regulation in Alzheimer's disease. *Annals of Neuro Sciences* 2018, 25(5):1-23.
* H. Anandaram, D. Alex Anand. Insilico analysis of micro RNA-based target interaction associated with pharmacogenomics of acquired immune deficiency syndrome. *International Journal of Infectious Diseases* 2016, 45:252.
* A. Harishchander, M. Michael Joshua, U. Benjamin Jason, D. Alex Anand. In Silico analysis of carboxamide derivatives of piperidine as potential antagonists of CCR5. *BMC Infectious Diseases* 2014, **14** (Suppl. 3): E21.
* Harishchander Anandaram, Daniel Alex Anand, A Computational approach for identifying novel micro RNAs from Genome-Wide Association Studies of Psoriasis. *IJIRSE* 2014, **1**(1):288-291.
* A. Harishchander, S. Senapati, D.Alex Anand, Insilico Analysis of HIV Protease Inhibitors Using Fitness Function in Genetic Algorithm. *BMC Infectious Diseases* 2012, **12** (Suppl. 1): O7.

*Proceedings*

* Dr. Harishchander Anandaram, Impact of DL Models in Genome Assembly, ICIS-2022, Mar. 11& 12.
* Dr. Harishchander Anandaram, Impact of lncRNAs in PDAC, ICNN-2022, Apr. 23 & 24.
* Dr. Harishchander Anandaram, Umbrella Sampling of Trajectory Analysis in MD Simulations, ICIS-2022, Apr. 28 & 29.
* Dr. Harishchander Anandaram, Impact of Deep Learning Applications to explore the Gene Regulatory Networks of Autoimmune Disorders, ICIS-2022, Apr. 28 & 29.
* S. Devaraju, S. Jawahar and A. Harishchander Reinforcing Research in Higher Education for Quality Enhancement in Industry and Educational Institution, Asian Review of Mechanical Engineering, ISSN: 2249-6289 Vol.10 No.2, 2021, pp.38-42,©The Research Publication, [www.trp.org.in](http://www.trp.org.in), DOI: https://doi.org/10.51983/arme-2021.10.2.3172.
* Harishchander Anandaram, Modeling of Cascade Regulation in Psoriasis: A Comprehensive Approach**,** ECS Trans. 107 (1), 2627, 2022.
* Harishchander A, Rational Modeling of MicroRNA based Gene Regulation, ICBCI-2021, and January 9-18. ISBN: 978-93-5437-648-1 Vol.:1.
* Harishchander Anandaram, Combinatorial Machine Learning Approach to identify additional variants in SARS-CoV-2, Proceedings of the BIOINFORMATICS INDICA 2022, 8th International Symposium on Computational Biology, Bioinformatics and Ayur Informatics, University of Kerala, ISBN: 978-93-5566-491-4, Young Scientist Talk, Pg. No.26.
* Harishchander Anandaram, Computational Regulatory Network Analysis of Alzheimer's disease: An Initiation to Understand Pathogenesis, Proceedings - IVCIRHST-2022 (6th & 7th Jan.) - Abs. No. T009, Pg. No. 223. Event Organizer: Selvam Arts and Science College, Namakkal, Tamil Nadu, India.
* Harishchander A, Daniel Alex Anand, Aarthi Rashmi B, Computational Analysis and Mathematical Modeling of Pathogenesis in Psoriasis, ICRSBBS-2021, ISBN: 978-93-5526-487-9, ICRSBBS-PP54, Publisher: Department of Biotechnology, AVIT, Chennai (An Educational Institution of Vinayaka Missions Research Foundation). Event: IInd Int. Conf., Jul. 27 & 28, 2021.
* Krishnapriya S, Aarthi Rashmi B, Harishchander A**,** Combating COVID-19 and other disease outbreaks, IVSRTLSB-II, AMIAZ-V, Abst. 80, Publisher: Rakesh Book Services, New Delhi, ISBN: 978-93-84998-83-7. Book: Strategies to Combat COVID-19, Date of Event: December 12-18, 2021.
* S. Devaraju, S. Jawahar and A. Harishchander Reinforcing Research in Higher Education for Quality Enhancement in Industry and Educational Institution, Knowledge Management in Higher Education Institutions**,** Vol.-I, ISBN: 978-81-952757-0-0, ICKHI 2021, 7-8 April 2021, Organizer and Publisher: Manipal University, Jaipur, India.
* Harishchander A, Mathematical Modeling of Gene Regulatory Cascade in Alzheimer's Disease, iCBIT-BDG-OP-08, iCBIT'21 (Nov.8-12, 2021), ISBN: 978-93-91286-36-1, Organizer: CBIT, Hyderabad.
* Harishchander A\*, Homology Modeling and Structural Refinement of Banana Bunchy Top Virus, International Conference on Adaptive Technologies and Sustainable Growth (ICATS-2021) organized by Pavai Engineering College on 20.10.2021.
* Harishchander A\*, Impact of Nanotechnology in Pharmaceuticals, International Conference on Adaptive Technologies and Sustainable Growth (ICATS-2021) organized by Pavai Engineering College on 20.10.2021.
* Harishchander A\*, Comparative Modelling of Hypothetical Protein Associated with Banana Bunchy Top Virus, International Conference on Adaptive Technologies and Sustainable Growth (ICATS-2021) organized by Pavai Engineering College on 20.10.2021.
* Harishchander A\*, Comparative Modeling, and Simulation of Replication Initiation Protein in Banana Bunchy Top Virus, First International Conference on Agriculture, Science, Engineering and Management (ICASEM-Online) organized by Sanskriti University, Mathura, Uttar Pradesh, India in Collaboration with RSP Research Hub, Coimbatore, India on 23.10.2021 & 24.10.2021.
* Harishchander A\*, Mathematical Modeling of Gene Regulation in Psoriasis, CBIT Research Day 28.08.2020.
* Harishchander A\*, Aarthi Rashmi B, Annapoorna C, Homology Modelling, Insilico-Virtual Screening and Docking of Bifunctional Protein in Microcystis aeruginosa. National e-conference on Pollution and its Impact on Universal Health, 2020. ISBN: 978-93-5437-087-8 (Print edition) E-ISBN: 978-93-5445-285-7 (Online edition).
* A Harishchander, Computational Regulatory Network Analysis of Genes MicroRNAs and Transcription Factors Association in Psoriasis: An Initiation to Understand Pathogenesis and Identify Potential Targets. SciTech Biomed-Pharma Sciences 2021.
* A Harishchander, Computational Analysis of Pharmacogenomics and MicroRNA based Gene Regulatory Networks in Psoriasis (AMS098). Virtual Anti Microbial Symposium 2020.
* Harishchander Anandaram, Aarthi Rashmi B, Insilico Analysis and Mathematical Modeling, Challenges in Biochemical Practice: Innovation and Impact, IBRAS-2020.
* Harishchander A, Insilico Analysis of MicroRNA based Gene Regulatory Networks in Psoriasis, ICIBLS-2020, ISBN (P) – 978-93-88647-32-8, ISBN (O) - 978-93-88647-33-5, AB-105, Pg. No.143.
* Harishchander A, In Silico Analysis of Pharmacogenomics and MicroRNA, based Gene Regulatory Networks in Psoriasis, NIPER-12th E-Symposium -2021, February 15&16, OP-2, Pg. No. 26.
* Harishchander A, Alex Anand D "Mathematical Modeling of Gene Regulation (Track: Applied Mathematics pg.No.2)", AAICM-2020, December 7-9.
* Harishchander A, "Computational Analysis and Mathematical Modeling of MicroRNAs, Transcription Factors and Pathways to understanding Gene Regulation in Psoriasis." National Seminar on New Approaches: Challenges and Opportunities, December 26, 2020.
* Harishchander A, "Computational Analysis of MicroRNA based in Gene Regulatory Networks in Psoriasis" International Virtual Conference FBRTFP-2020 (PP-09,51), December 11 & 12, 2020.
* Harishchander A, "Computational Analysis of MicroRNAs in Gene Regulation in Psoriasis," Bioinvention advances in Bioscience (Abstract & Page No. 4), November 5 & 6, 2020.
* Harishchander A, "Computational Analysis of MicroRNA based Gene Regulation in Alzheimer's Disease" (Abstract No.14, Oxford Abstracts)", Neuro November Convention 2020 (21-29).
* Harishchander A, Alex Anand D, "Computational Analysis of Gene Regulation," IVCEMBBS 2020 (October 24-26), Organized by SynBiogenica, India and ACE International Pvt. Ltd., Singapore.
* Harishchander, A, Aarthi Rashmi, B, Sivaraman T\*, "Computational Screening and validation of Biomarkers to Pancreatic Ductal Adenocarcinoma: Implications to Rational Drug Design," Proceedings of Two Days (12th and 13th October 2020) International Conference on Expanding the Frontiers of Pharmaceutical Research. Organizer: Karpagam College of Pharmacy, Coimbatore, Tamilnadu, India.
* Aarthi Rashmi, B, Sivaraman T\*, Harishchander A, Alex Anand D, "Computational Analysis of MicroRNA based gene regulatory networks in Psoriasis" was published in the proceedings Two Days (12th and 13th October 2020) International Conference on Expanding the Frontiers of Pharmaceutical Research. Organizer: Karpagam College of Pharmacy, Coimbatore, Tamilnadu, India.
* Harishchander, A\*, Aarthi Rashmi, B, Vasanth Nirmal Bosco J, Madhumitha C, Saranya N, Shalini S, Divyalakshmi S, Annapoorna C, Nivethitha S, Pavadharani DS, Kamalii V, Sowmya P "Computational Analysis of Peptides in Geobactor" was published in the proceedings of "Two Days (12th and 13th October 2020) International E Conference on New Horizons in Biochemistry Microbiology and Food Technology".
* Harishchander A, D Alex Anand\* "Computational Analysis and Mathematical Modeling of Regulatory Networks in Psoriasis" was published in the proceedings of "Two Days (18th &19th September 2020) International Conference" on "Multidisciplinary Innovations in Science and Technology." Organizer: Oxford College, Bangalore, Tamilnadu, India.
* Harishchander, A, "Homology Modeling And Immunosuppressant Peptide Docking Of Ccr5: An Initiation Towards The Development Of Peptidomimetics Compound To Treat HIV" was published in the Proceedings of International Science Symposium on HIV and Infectious Diseases organized by YRG care, Chennai, India during 12-14 October 2019. ABSTRACT NO.179.
* Aarthi Rashmi, B.\*, Harishchander, A., Akshay, AG, Deepak, G., Siddesh, M., Yeswanth, M. and Thankaraj, T.L. Homology modeling and Docking of COLCA2: an initiation towards identifying a new chemical entity to treat cancer. IISTSD Proceedings. Kongunadu Arts and Science College organized the conference, Coimbatore, Tamilnadu, India, during 19-21 September 2019, Abstract No BMS-312.
* Aarthi Rashmi, B.\*, Harishchander, A., Madhumitha, C., Divya Lakshmi, S., and Shalini Srinivasan.Isolation and identification of low-density polyethylene degrading bacteria. Organized by Kongunadu Arts and Science College, Coimbatore, Tamilnadu, India during 19-21 September 2019,p.359.
* Harishchander, A., Aarthi Rashmi, B.\*, Pravitha, K.S, Kausalya Sakthivel, Uma, K., Namitha, PV, and Swathi, TV Understanding the genetic diversity of *Pediculus humanus capitis* using mitochondrial markers. Organized by Kongunadu Arts and Science College, Coimbatore, Tamilnadu, India during 19-21 September 2019, p.312.
* Harishchander A, Aarthi Rashmi B, Annapoorna C, Saranya N, Divyalakshmi S, Shalini Srinivasan (2019), "Comparative Modelling, Virtual Screening and Docking of Bifunctional Protein in Microcystis aeruginosa: An initiation towards Identifying a Potential Inhibitor," Organized by Annamalai University, Chidambaram, Tamilnadu, India during 30-31 August 2019, ISBN: 978-93-5361-615-1,p.421.
* Harishchander A, Aarthi Rashmi B, Annapoorna C, Saranya N, Divyalakshmi S, Shalini Srinivasan (2019), "Protein-Peptide Docking on Marine Peptides With Antibacterial Therapeutic Effect," Organized by Annamalai University, Chidambaram, Tamilnadu, India during 30-31 August 2019, ISBN: 978-93-5361-615-1,p.427.
* Harishchander Anandaram and Daniel Alex Anand, "A Novel approach for identifying therapeutic microRNAs," Proceedings of International Conference on Mathematical Sciences organized by Sathyabama University, Chennai, India during 17-19 July 2014. pp. 657-659.
* Harishchander Anandaram and Daniel Alex Anand, "PathomiR: A new methodology to identify miRNAs involved in disease pathology" was published in the Proceedings of the National Conference on Recent Trends in Chemical Sciences and Engineering (NCRTCSE-2014) Organized by Anna University, Chennai, India, during 25-26 February 2014. pp. 126-132.
* Harishchander Anandaram and Daniel Alex Anand, (2014), "PharmiR: A new methodology to predict therapeutic miRNAs" was published in the Proceedings of the National Conference on Advances in Chemical Sciences and Engineering (NCACSE-2014) Organized by SCSVM University, Kanchipuram, Tamilnadu, India during 06-07 March 2014. pp. 100-106.

**Memberships**

* ORCID: **0000-0003-2993-5304**
* SCOPUS: **56269912700**
* GOOGLE SCHOLAR: **mokZJ14AAAAJ**
* RESEARCHER ID: **I-6988-2016**
* MICROSOFT ACADEMIC ID: **29935304**
* VIDWAN: **246411**
* IIRO: **2020/0024**
* IFERP: **PM64082935**
* Bioclues: **2021/01/662**
* I2OR: **I2OR/2020/A-0251**
* IASSR: **KXZTEY-CE000086**
* APR: **PM34512786**
* SLT: **LM259**
* GPWAF: **15101**
* ISET Research: **2022020150**
* KRA: **1865**
* INSO: **18062022**

**References**

* + Dr. Daniel Alex Anand, Associate Professor, Department of Biological Data Science, Sathyabama Institute of Science and Technology, Chennai, Tamilnadu, India. Email:[danielalexanand@gmail.com](mailto:danielalexanand@gmail.com) Mobile No:+91-9840235781.
  + Dr. M. Manikandan, Associate Professor, Department of Biotechnology, Sri Krishna Arts and Science College, Coimbatore, Tamilnadu, India. Email: [manikandanm@skasc.ac.in](mailto:manikandanm@skasc.ac.in) Mobile No:+91-9843127975
  + Dr. K.P. Renuka Devi, Associate Professor, Department of Biotechnology, Sri Krishna Arts and Science College, Coimbatore, Tamilnadu, India. Email: [renukadevip@skasc.ac.in](mailto:renukadevip@skasc.ac.in) Mobile No:+91-9488860018.
  + Dr. P. Geetha, Assistant Professor (**Selection Grade**), Centre for Excellence in Computational Engineering and Networking (CEN), Amrita Vishwa Vidyapeetham, Coimbatore, Tamil Nadu, India. Email [p\_geetha@cb.amrita.edu](mailto:p_geetha@cb.amrita.edu) Mobile No. +91-9843060402.