Professor Dr. Subash C.B. Gopinath, Universiti Malaysia Perlis (UniMAP)

A. PERSONAL INFORMATION

1. Full Name: Subash Chandra Bose Gopinath
2. Passport Number: Z5178663
3. Date of Birth: 17th May 1971
4. Personal Biodata: Male; Married; 2 Children; Asian; Hindu
5. Nationality: Indian; Permanent Resident of Japan
6. Phone & Fax: +601110472006 (M); +604-9775021 (O); +604-9798578 (F)
7. E-mail Address: subash@unimap.edu.my or gopis11@gmail.com
8. Office Address: Faculty of Chemical Engineering & Technology; Institute of Nano Electronic Engineering; Micro System Technology, CoE; Universiti Malaysia Perlis (UniMAP), Arau, Perlis, Malaysia.
9. Home Address: 46A, Kaliamman Koil Street, Villapuram, Meenakshi Nagar, Madurai 625012, Tamil Nadu, India.
10. Citation Links
http://scholar.google.com.my/citations?user=vyWXCIwAAAAJ&hl=en
https://www.scopus.com/authid/detail.uri?authorId=7006558013
https://www.researchgate.net/profile/Gopinath_Subash
http://orcid.org/0000-0002-8347-4687
https://www.ncbi.nlm.nih.gov/pubmed/?term=gopinath+sc
https://www.webofscience.com/wos/author/record/D-2953-2015

Web	No. of Publications	Total Citations	H-index
Google Scholar	1146	21319	69
Scopus	773	15376	58

B. ACADEMIC QUALIFICATION

1. January 1999 — Doctor of Philosophy in Botany (Fungal Biochemistry), University of Madras, Chennai, India
Entitled "*Studies on Oil-mill Effluent Mycoflora and their Lipolytic Activity*"
2. April 1993 — Master's in Botany, Madurai Kamaraj University, Madurai, India
3. April 1991 — Bachelor in Botany, Madurai Kamaraj University, Madurai, India

C. CAREER BACKGROUND

1. June 2023 - Present — **Professor (VK7)**, Faculty of Chemical Engineering & Technology, Universiti Malaysia Perlis
2. Jan. 2015 - Present — **Research Fellow**, Institute of Nano Electronic Engineering, Universiti Malaysia Perlis (UniMAP)
3. Sept.2025 - Present — **Associate Research Fellow**, Micro System Technology, Universiti Malaysia Perlis, Malaysia
4. Sept.2022 - Present — **Research Fellow**, Micro System Technology, CoE, Universiti Malaysia Perlis, Perlis, Malaysia
5. May 2024 - Present — **Distinguished Adjunct Professor,** Saveetha Institute of Medical and Technical Sciences, India.
6. June 2024 - Present — **Adjunct Professor,** Western Caspian University, Baku, Azerbaijan.
7. Sept 2024 - Present — **Friendship Ambassador,** International Science and Technology Cooperation Base, China
8. Jan 2024 - Present — **Norxin Expert,** Norxin International Science and Technology Cooperation Base, China
9. Sept.2022 – Aug'24 — **Research Fellow**, Micro System Technology, CoE, Universiti Malaysia Perlis, Perlis, Malaysia
10. Dec.2021-Nov.2022 — **Joint Director**, CoE for Nanobiotechnology and Nanomedicine, AIMST University, Malaysia
11. Mar. 2020-Mar. 2022 — **Distinguished Professor & Chief Scientist**, First Central Medical Hospital, Baoding City, China
12. June 2021-Aug 2024 — **Visiting Professor (Academic Fellow)**, Universiti Sains Malaysia, Penang, Malaysia
13. June 2023-May 2025 — **Visiting Professor**, Daffodil International University, Bangladesh
14. Dec. 2021-Jan. 2023 — **Adjunct Professor**, AIMST University, Malaysia
15. Apr. 2018–Mar. 2019 — **Visiting Professor**, Prince of Songkla University, Hat Yai, Thailand
16. Nov. 2011-Oct. 2012 — **Adjunct Professor**, Indira Gandhi Institute of Engineering and Technology, Kerala, India
17. Jan. 2017- May 2023 — **Associate Professor (DS53)**, Faculty of Chemical Engineering & Technology, UniMAP
18. Apr. 2023 – Apr-2024 — **Scientific Consultant**, Articlets Research Sdn. Bhd., China
19. Sept.2022-Sept.2023 — **Senior Consultant,** You Chuang Scientific, China.
20. Jan. 2018 – Present — **Scientific Consultant**, Future Science, Beijing, China
21. May 2015 – Apr.2017 — **Chief Scientific Consultant** in Medical Innovation Ventures Sdn. Bhd., Penang, Malaysia
22. Jan. 2015-Dec. 2016 — Senior Lecturer, Universiti Malaysia Perlis, Perlis, Malaysia
23. 2013-2014 — Senior Research Fellow, University of Malaya, Kuala Lumpur, Malaysia
24. 2014 — Senior Research Fellow, Universiti Sains Malaysia, Penang, Malaysia
25. 2010-2013 — **Visiting Lecturer**, Universiti Sains Malaysia, Penang, Malaysia
26. 2009-2013 — **Visiting Researcher** in Nihon University School of Medicine, Tokyo, Japan
27. 2006-2013 — Researcher, National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan
28. 2004-2006 — **JSPS Fellow**, National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan
29. 2003-2004 — Post-doctor, National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan
30. 1999-2003 — Post-doctor, Academia Sinica, Nankang, Taiwan
31. 1994-1998 — Research Fellow, *University Grants Commission*, India

D. TEACHING SERVICE

Post-graduates (Ph.D. & Masters) at Universiti Malaysia Perlis

	Year	Course	Subject	Role	Sem	Code	Credit
1.	2021-22	Research Methodology	Interdisciplinary	Teaching Partner	I	KSJ65003	3
2.	2020-21	Research Methodology	Interdisciplinary	**Co-ordinator**	II	EAT 650	3

3.	2020-21	Research Methodology	Interdisciplinary	Teaching Partner	I	EAT 650	3

Under-graduates at Universiti Malaysia Perlis

	Year	Course	Subject	Role	Sem	Code	Credit
4.	2024-25	*Food Technology*	Food Biochemistry	Teaching partner	II	KMK23103	3
5.	2024-25	*Food Technology*	Food Biochemistry	Teaching partner	I	KMK23103	3
6.	2024-25	*Food Technology*	Fats and Oils Technology	Teaching partner	I	KMK33203	3
7.	2023-24	*Food Technology*	Food Biochemistry	Teaching partner	II	KMK23103	3
8.	2023-24	*Food Technology*	Fats and Oils Technology	Teaching partner	I	KMK33203	3
9.	2022-23	*Mechanical Engineering*	Land Reclamation & Remediation	Teaching partner	II	KMJ46903	3
10.	2022-23	*Mechanical Engineering*	Final Year Project	Teaching partner	II	KMJ49802	4
11.	2022-23	*Mechanical Engineering*	Biowaste Management	Teaching partner	I	KMJ46403	4
12.	2022-23	*Mechanical Engineering*	Final Year Project	Teaching partner	I	KMJ49802	4
13.	2021-22	*Agriculture Engineering*	Biochemistry	**Co-ordinator**	II	ERT151	3
14.	2020-22	*Agriculture Engineering*	Biomass conversion Tech	Teaching partner	II	ERT467	4
15.	2021-22	*Agriculture Engineering*	Final Year Project	Teaching partner	II	ERT446	4
16.	2021-22	*Agriculture Engineering*	Waste Management	**Co-ordinator**	I	ERT466	3
17.	2021-22	*Agriculture Engineering*	Final Year Project	Teaching partner	I	ERT445	4
18.	2020-21	*Agriculture Engineering*	Biomass conversion Tech	Teaching partner	II	ERT467	4
19.	2020-21	*Agriculture Engineering*	Waste Management	Teaching partner	I	ERT466	3
20.	2020-21	*Chemical Engineering*	Biochemical Sciences	**Co-ordinator**	II	ERT112	3
21.	2020-21	*Chemical Engineering*	Introduction to Biological & Chemical Sci. Principles	**Co-ordinator**	I	ERT111	3
22.	2020-21	*Chemical Engineering*	Biochemistry	**Co-ordinator**	I	ERT106	3
23.	2019-20	*Agriculture Engineering*	Biochemistry	**Co-ordinator**	II	ERT151	3
24.	2019-20	*Agriculture Engineering*	Biomass conversion Tech	Teaching partner	II	ERT467	4
25.	2019-20	*Agriculture Engineering*	Fundamental of Agricultural Engineering	**Co-ordinator**	I	ERT167	3
26.	2019-20	*Chemical Engineering*	Microbiology	**Co-ordinator**	II	ERT107	4
27.	2019-20	*Chemical Engineering*	Biochemical Sciences	Teaching partner	II	ERT112	3
28.	2019-20	*Chemical Engineering*	Introduction to Biological & Chemical Sci. Principles	Teaching partner	I	ERT111	3
29.	2019-20	*Chemical Engineering*	Biochemistry	**Co-ordinator**	I	ERT106	3
30.	2019-20	*Biosystem Engineering*	Biochemistry	**Co-ordinator**	II	ERT151	3
31.	2019-20	*Biosystem Engineering*	Biomass Conversion Tech	Teaching partner	II	ERT167	4
32.	2019-20	*Biosystem Engineering*	Fundamental of Agricultural Engineering	**Co-ordinator**	I	ERT167	3
33.	2018-19	*Bioprocess Engineering*	Microbiology	Teaching partner	II	ERT107	4
34.	2018-19	*Bioprocess Engineering*	Biochemistry	Teaching partner	I	ERT106	3
35.	2018-19	*Biosystem Engineering*	Biochemistry	**Co-ordinator**	II	ERT151	3
36.	2018-19	*Biosystem Engineering*	Applied Biology	**Co-ordinator**	I	ERT149	4
37.	2017-18	*Bioprocess Engineering*	Biochemistry	**Co-ordinator**	I	ERT106	3
38.	2017-18	*Biosystem Engineering*	Bio-related Products	Teaching partner	II	ERT470	3
39.	2017-18	*Biosystem Engineering*	Biochemistry	**Co-ordinator**	II	ERT151	3
40.	2017-18	*Biosystem Engineering*	Applied Biology	**Co-ordinator**	I	ERT149	4
41.	2016-17	*Bioprocess Engineering*	Microbiology	Teaching partner	II	ERT107	4
42.	2016-17	*Bioprocess Engineering*	Biochemistry	Teaching partner	I	ERT106	3
43.	2016-17	*Biosystem Engineering*	Biochemistry	**Co-ordinator**	II	ERT151	3
44.	2016-17	*Biosystem Engineering*	Applied Biology	**Co-ordinator**	I	ERT149	4
45.	2015-16	*Bioprocess Engineering*	Bio-statistical Analysis	Teaching partner	I-II	ERT488	3
46.	2015-16	*Bioprocess Engineering*	Microbiology	**Co-ordinator**	II	ERT107	4
47.	2015-16	*Bioprocess Engineering*	Biochemistry	**Co-ordinator**	I	ERT106	3
48.	2015-16	*Biosystem Engineering*	Food Engineering	**Co-ordinator**	II	ERT426	3
49.	2015-16	*Biosystem Engineering*	Reaction Engineering	Teaching partner	I	ERT316	3
50.	2015-16	*Biosystem Engineering*	Applied Biology	Teaching partner	I	ERT149	4
51.	2014-15	*Bioprocess Engineering*	Biochemistry	Teaching partner	II	ERT106	3

Teaching with Visiting programs

	Year	Program	University	Country	Subject	Course	Role	Period
1	2018-19	**China-ASEAN** Scholar Program	Tianjin University	**China**	*Nanotechnology & Biosensor*	M.Sc. & Ph.D.	Visiting Lecturer	4 Weeks
2	2016-17	**Mevlana** Exchange Programme	Karabuk University	**Turkey**	Medical Sciences	M.Sc. & Ph.D.	Visiting Lecturer	2 Weeks
3	1998-99	Substitute	University of Madras	India	Microbiology	B.Sc.	Guest Lecturer	3 Months
4	2007-13	Part-time	Waseda University	Japan	Nanotechnology	M.Sc.	Tutorial	All Semesters
5	2011-13	Part-time	University of Tsukuba	Japan	Nanotechnology	M.Sc.	Tutorial	All Semesters

E. MAJOR PROJECTS HANDLED

1. 2003-Present
   - ♦ Aptamer-based Genotyping of Influenza Viruses
   - ♦ Involvement of vault RNAi in Multi-drug resistance of cancer cells
   - ♦ Anti-termination regulation of the *hut* operon in *Bacillus subtilis*
   - ♦ Developing anti-coagulant aptamers
   - ♦ Glycan-based discrimination of influenza viruses
   - ♦ Developing an RNA-aptamer as the drug for Human Herpes simplex viruses and clinical trials
   - ♦ Nanobiosensors using commercial Digital versatile disc: a BioDVD platform technology
   - ♦ Optical nano-biosensor using evanescent-field-coupled waveguide-mode sensor
   - ♦ Optical sensor for biomolecular interactions using Surface Plasmon Resonance
   - ♦ Dye or Immuno Gold-nanoparticle-mediated signal enhancements for biosensing
   - ♦ Isolation and Purification of microbial Lipases and Keratinases
   - ♦ Molecular characterization Protease inhibitors from Plant and Animal systems
   - ♦ Polysialylation on human cancer cells during growth and differentiation
   - ♦ Anti-viral aptamers for Hepatitis C Virus
   - ♦ Anti-EPO for aptamers to screen the drug intake during sports events
   - ♦ Aptamers for infectious diseases-Malaria, TB, SARS, Dengue, HIV & Food Mouth Diseases
   - ♦ Nanostructures on Interdigitated Electrode sensor (Impedance)
   - ♦ Encapsulation of herbal product/Cow Urine in Cellulose Nanoparticle as anti-microbes
   - ♦ Green Synthesis of Nanomaterials (Silver, Iron, rGraphene Oxide) and antimicrobial activities
   - ♦ Analysis of Single-walled Carbon Nanotube. Mxene
   - ♦ Production of extracellular fungal cocktail enzymes
   - ♦ Production of Zeolite nanoparticle from fly-ash
   - ♦ Capturing human pathogen from water from post-flooding
   - ♦ Early diagnosis of Lung, Cervical and Prostate cancers
   - ♦ Diagnosis of Parkinson's Disease, Hyperglycemia, Hypertension, Leukemia, Osteosarcoma
   - ♦ Diagnosis of SARS-CoV-2 [COVID-19]
   - ♦ Determination of Arsenic in paddy grains
   - ♦ Fabrication of semicondustor materials – Failure analysis
   - ♦ *In silico* analysis & modelling on anti-human clotting factors: A substitute for heparin
   - ♦ Molecular imprinting with clinical biomarkers
   - ♦ Alloyed Nanomaterials for sensing surface enhancement

F. ACADEMIC AWARDS AND HONOURS

1. 2025
   - ♦ **Team leader**: Nanobiotechnology, Institute of Nano Electronic Engineering, Universiti Malaysia Perlis
   - ♦ **UniMAP member**: THE OPENING CEREMONY OF THE HARUMANIS SEASON Y.A. RELEASE FOR THE YEAR 2025.
   - ♦ **Best Postgraduate Research Poster award**, Mini iFuture 2025, Universiti Malaysia Perlis.
   - ♦ **Gold Medal**: Postgraduate Research Poster competition, Mini iFuture 2025, Universiti Malaysia Perlis.
   - ♦ **Gold Medal**: SMART HARUM:SMART PROCEDURE FOR HARUMANIS FARM MANAGEMENT TO INCREASE THE PRODUCTION YIELD, EREKA 2024, Universiti Malaysia Perlis.
   - ♦ **Gold Medal**: INNOVATIVE BACTERIA-FREE WATER FILTRATION TECHNOLOGY: LEVERAGING POLYMER IMPRINTS AND REAL-TIME SENSING STRATEGIES , EREKA 2024, Universiti Malaysia Perlis.
   - ♦ **Gold Medal**: CARBON QUANTUM DOTS INTERDIGITATED ELECTRODES FOR HEPATITIS B AND C DETECTION, EREKA 2024, Universiti Malaysia Perlis.
   - ♦ **Award for International grant achiever**: for the year 2024, Universiti Malaysia Perlis.
   - ♦ **Award for High impact publications**: for the year 2024, Universiti Malaysia Perlis.
   - ♦ **Best academic achiever**: for the year 2024, Universiti Malaysia Perlis.
2. 2024
   - ♦ **Team leader**: Nanobiotechnology, Institute of Nano Electronic Engineering, Universiti Malaysia Perlis
   - ♦ Listed in the **TOP 2% category** (Top 1%) **SCIENTISTS** [for **Career Long and Single Year Impact** (Citations)] of the World, 2023 published by Stanford University, USA.
   - ♦ **Committee**: Nano Roadshow, Institute of Nano Electronic Engineering, Universiti Malaysia Perlis
   - ♦ **Best Cluster Award**: Green Nano Hydrophobic fungicide for postharvest fruits. Carnival of Research and Innovation 2024 (CRI2024) organised by Research Management Innovation Centre (RMIC), Universiti Malaysia Kelantan
   - ♦ **Gold Medal**: Green Nano Hydrophobic fungicide for postharvest fruits. Carnival of Research and Innovation 2024 (CRI2024) organised by Research Management Innovation Centre (RMIC), Universiti Malaysia Kelantan
   - ♦ **Best Category Award**: GREEN NANO HYDROPHOBIC FUNGICIDE FOR HARUMANIS POSTHARVEST , EREKA 2024, Universiti Malaysia Perlis
   - ♦ **Best Cluster Award**: GREEN NANO HYDROPHOBIC FUNGICIDE FOR POSTHARVEST FRUITS, CARNIVAL OF RESEARCH AND INNOVATION (CRI) 2024, UNIVERSITI MALAYSIA KELANTAN
   - ♦ **Gold Medal**: GREEN NANO HYDROPHOBIC FUNGICIDE FOR POSTHARVEST FRUITS, CARNIVAL OF RESEARCH AND INNOVATION (CRI) 2024, UNIVERSITI MALAYSIA KELANTAN
   - ♦ **Gold Medal**: GREEN NANO HYDROPHOBIC FUNGICIDE FOR HARUMANIS POSTHARVEST, EREKA 2024, Universiti Malaysia Perlis
   - ♦ **Gold Medal**: INNOMed Innovation Pitching 2024, Kuala Lumpur, Malaysia
   - ♦ **Gold Medal**: Parkinson's Disease Diagnosis with a "Neuro-sentinel System" Powered by Microfluidic and Electrochemical Sensing Platform, EREKA 2024, Universiti Malaysia Perlis

- ♦ **Gold Medal**: Bacterial Imprints on Water Filter: A Pioneer Filtration Technology for Enhancing Water Purity and Real-time Monitoring by Sensing Platform, EREKA 2024, Universiti Malaysia Perlis
- ♦ **Gold Medal**: F-EIS MODIFIED INTERDIGITATED MICROELECTRODES FOR PROSTATE CANCER BIOMARKER DETECTION, EREKA 2024, Universiti Malaysia Perlis
- ♦ **Gold Medal**: REAL SAMPLE COVID -19 DETECTION FROM TOTAL RNA EXTRACTION SCREENING BY USING BIOSENSOR, EREKA 2024, Universiti Malaysia Perlis
- ♦ Silver Medal: Artificial Bone from Eggshell Waste, EREKA 2024, Universiti Malaysia Perlis
- ♦ Silver Medal: Device to detect mulitiple RNA/DNA targets in Molecular Diagnostics of Various Diseases, SIRIM Invention, Innovation & Technology, Expo Competition 2024 (SI2TE2024)
- ♦ Bronze Medal: CHEMICAL MODIFICATION AND CARBON QUANTUM DOTS OF RICE STRAW AS OIL ADSORBENT MATERIAL, EREKA 2024, Universiti Malaysia Perlis
- ♦ Bronze Medal: Device to detect mulitiple RNA/DNA targets of various diseases in molecular diagnostics, Malaysian Technology (MTE), SDG 2024
- ♦ Bronze Medal: Device to detect mulitiple RNA targets in nuclear medicine, Nuclear Malaysia, Kuala Lumpur

3. 2023
- ♦ **Team leader**: Nanobiotechnology, Institute of Nano Electronic Engineering, Universiti Malaysia Perlis
- ♦ Listed in the **TOP 2% category** (Top 1%) **SCIENTISTS** [for **Career Long and Single Year Impact** (Citations)] of the World, 2023 published by Stanford University, USA.
- ♦ **Long Service Award**: Plos One Editorial Board. Over 5 years dedicated service.
- ♦ **INNOPA Special Award**: Formulation of Hydrophobic Deep Eutectic Solvents Oil-in-water Nanoemulsion for Postharvest Fruit Preservation, CEGeoGTech, Universiti Malaysia Perlis
- ♦ **Gold Medal**: Formulation of Hydrophobic Deep Eutectic Solvents Oil-in-water Nanoemulsion for Postharvest Fruit Preservation, CEGeoGTech, Universiti Malaysia Perlis
- ♦ **Gold Medal**: Lab-on-a-Chip Device: Integration of Microfluidics on Interdigitated Electrodes, EREKA 2023, Universiti Malaysia Perlis
- ♦ **Gold Medal**: Molecular-imprinting Technology based Surgical- site Blood Clotting Surveillance System, EREKA 2023, Universiti Malaysia Perlis
- ♦ **Gold Medal**: Fabrication of Nanoemulsion based Origanum vulgare (Oregano) Essential Oil for Mango Postharvest Application. EREKA 2023, Universiti Malaysia Perlis
- ♦ **Gold Medal**: Biogenic silver nanoparticles from food waste as potent fungicide for grey oyster mushroom protection. EREKA 2023, Universiti Malaysia Perlis.
- ♦ Silver medal: Green synthesis of reduced graphene oxide using natural reducer for small biomolecule (Biotin) detection. EREKA 2023, Universiti Malaysia Perlis.
- ♦ Silver medal: A Nano-Green Synthesis Approach using Plant- Based Materials for Antimicrobial Agents. EKSPO REKACIPTA UniMAP (EREKA, 2023), Universiti Malaysia Perlis.
- ♦ Silver medal: Fabrication of Naoemulsion based Origanum vulgare [Oregano] Essential Oil for Mango Postharvest Application. Industry day, FKTK, 26-27 January 2023, Universiti Malaysia Perlis.
- ♦ Bronze Medal: Formulation of Hydrophobic Deep Eutectic Solvents Oil-in-water Nanoemulsion for Postharvest Fruit Preservation, International Chemical Competition, Universiti Malaysia Perlis
- ♦ Bronze Medal: Lab-on-a-Chip Device: Integration of Microfluidics on Interdigitated Electrodes, Nuclear Malaysia, Kuala Lumpur
- ♦ Bronze Medal: Non-protein coding RNA sequences mediate specific colorimetric detection of *Staphylococcus aureus* on unmodified gold nanoparticle, Nuclear Malaysia, Kuala Lumpur

4. 2022
- ♦ **Team leader**: Nanobiotechnology, Institute of Nano Electronic Engineering, Universiti Malaysia Perlis
- ♦ **Gold Medal**: Archimedean Nano-MIP Sensor: A Pre-operative Assessment Tool for Inherited and Acquired Coagulopathy Diagnosis. PECIPTA 2022, Universiti Malaysia Kelantan.
- ♦ **Gold Medal**: Modified Interdigitated Microelectrodes for Prostate Cancer's Biomarker Detection. PECIPTA 2022, Universiti Malaysia Kelantan.
- ♦ **Gold Medal**: Carbon Capture by Eggshell Waste. PECIPTA 2022, Universiti Malaysia Kelantan.
- ♦ Listed in the **TOP 2% category** (Top 1%) **SCIENTISTS** [for **Career Long and Single Year Impact** (Citations)] of the World, 2022 published by Stanford University, USA.
- ♦ '**Mentor**' under the program for excellence and mentorship in research (PEER), 2022, Universiti Malaysia Perlis.
- ♦ **Best category award**: Archimedean Nano-MIP Sensor: A Pre-operative Assessment Tool for Inherited and Acquired Coagulopathy Diagnosis. EREKA 2021, Universiti Malaysia Perlis.
- ♦ **Gold Medal**: Archimedean Nano-MIP Sensor: A Pre-operative Assessment Tool for Inherited and Acquired Coagulopathy Diagnosis. EREKA 2021, Universiti Malaysia Perlis.
- ♦ **Gold Medal**: Carbon quantum dots (CQD)-based biosensor: A diagnostic system for early detection of microRNA (MiRNA) of COVID-19. EREKA 2021, Universiti Malaysia Perlis.
- ♦ **Gold Medal**: Multi-detection of DNA HPV biosensor via funcationalization of deep eutectic solution (DES) for early detection of cervical cancer.
- ♦ **Gold Medal**: Modified interdigitated microelectrodes for prostate cancer biomarker detection. EREKA 2021, Universiti Malaysia Perlis.
- ♦ **Gold Medal**: Achievement award for top cumulative high-impact publications in Universiti Malaysia Perlis.
- ♦ **Gold Medal**: Archimedean Nano-MIP Sensor: A Pre-operative Assessment Tool for Inherited and Acquired Coagulopathy Diagnosis. Malaysian Technology Expo 2022, 21-25 March, Malaysia.
- ♦ **Gold Medal**: Archimedean Nano-MIP Sensor: A Pre-operative Assessment Tool for Inherited and Acquired Coagulopathy Diagnosis. EREKA 2021, Universiti Malaysia Perlis.
- ♦ Silver Medal: Impedimetric immune nanosensor for early recognition of heart attach. EREKA 2021, Universiti Malaysia Perlis.
- ♦ Silver Medal: Activated rice husk carbon-based electrode biosensor for DNA detection and early screening diseases. EREKA 2021, Universiti Malaysia Perlis.
- ♦ **IKM Research Prize** in Polymer and Materials Science 2022, IKM Malam Kimia & Presentation of IKM Awards by Institute Kimia Malaysia, Award sponsored by HARPS Holdings Bhd & Synthomer Sdn Bhd.

5. 2021

- ♦ **The Best Innovation Award**: Archimedean NanoMIP Sensor: A Prognostic Device for Clotting Disease Detection. Research and Innovative Technology Competition (RITEC) 2021, University Tun Hussein Onn Malaysia.
- ♦ **Gold Medal**: Archimedean NanoMIP Sensor: A Prognostic Device for Clotting Disease Detection. Research and Innovative Technology Competition (RITEC) 2021, University Tun Hussein Onn Malaysia.
- ♦ **Gold Medal**: Field-effect Device for A.M.I. Biomarker Detection. Seoul International Invention Fair (SIIF) 2021.
- ♦ **Gold Medal**: Archimedean NanoMIP Sensor: A Prognostic Device for Clotting Disease Detection. International Virtual Expo of Innovation Product and System Design 2021 (In-ViDE 2021), Universiti Malaysia Perlis.
- ♦ **Gold Medal**: Multi Detection of Genosensor for Human Papillomavirus (HPV) strains 16,18 & 58 for Early Detection of Cervial Cancer. Malaysia Technology: Sustainable Development Goals International Innovation Awarrds (MTG-SDG 2021).
- ♦ **Gold Medal**: Archimedean NanoMIP Sensor: A Prognostic Device for Clotting Disease Detection. Malaysia Technology: Sustainable Development Goals International Innovation Awarrds (MTG-SDG 2021)
- ♦ **Gold Medal**: A Sensitive MicroRNA (MiRNA) Biosensor Based on Carbon Quantum Dots (CQD) for Early Detection of COVID-19. MTE 2021.
- ♦ **Gold Medal**: Archimedean NanoMIP Sensor: A Prognostic Device for Clotting Disease Detection. CITREX 2021, Universiti Malaysia Pahang.
- ♦ Listed in the **TOP 2% SCIENTISTS** [for **Career Long and Single Year Impact** (Citations)] of the World, 2021 published by Stanford University, USA.
- ♦ Achievement award for producing the best post-graduate students
- ♦ Achievement award for a book Editor
- ♦ Achievement award for international grant (China-Malaysia)
- ♦ Achievement award for highest H-index in Universiti Malaysia Perlis
- ♦ Achievement award for high citations in Universiti Malaysia Perlis
- ♦ Achievement award for top cumulative high-impact publications in Universiti Malaysia Perlis
- ♦ **Best-of-Best Award**: Dual Correlation Biosensor Diagnostic System for Early Detection of COVID-19 Infection and Human Papillomavirus. EREKA 2021, Universiti Malaysia Perlis.
- ♦ **International Award of Merit:** from Republic of Croatia, The Malaysia-Croatia Technology Exchange
- ♦ **Gold Medal**: Field-effect Device for A.M.I. Biomarker Detection. Malaysian Technology Expo 2021, Malaysia.
- ♦ **Gold Medal**: Field-effect Device for A.M.I. Biomarker Detection. EREKA 2021, Universiti Malaysia Perlis.
- ♦ **Gold Medal**: Multi Detection of Genosensor for Human Papillomavirus (HPV) strains 16,18 & 58 for Early Detection of Cervial Cancer. EREKA 2021, Universiti Malaysia Perlis.
- ♦ **Gold Medal**: A Sensitive microRNA (MiRNA) Biosensor Based on Carbon Quantum Dots (CQD) for Early Detection of COVID-19. EREKA 2021, Universiti Malaysia Perlis.
- ♦ **Gold Medal**: Dual Correlation Biosensor Diagnostic System for Early Detection of COVID-19 Infection and Human Papillomavirus. EREKA 2021, Universiti Malaysia Perlis.
- ♦ **Gold Medal**: Nanodevice for arsenic detection in rice grains - a potential screening tool. 7th Southeast Asian Agricultural Engineering Student Capter Annual Regional Convention 2021 (ARC 2021) Universiti Putra Malaysia.
- ♦ Silver Medal: Archimedean NanoMIP Sensor: A Prognostic Device for Clotting Disease Detection. EREKA 2021, Universiti Malaysia Perlis.
- ♦ Silver Medal: NanoDevice for Arsenic Detection in Rice Grains - A Potential Screening Tool. EREKA 2021, Universiti Malaysia Perlis.
- ♦ Silver Medal: Artificial Bone from Eggshell. EREKA 2021, Universiti Malaysia Perlis.
- ♦ Silver Medal: Eco friendly nano approach to subside accumulation of arsenic in paddy grains- a potential screening tool. 7th Southeast Asian Agricultural Engineering Student Capter Annual Regional Convention 2021 (ARC 2021) Universiti Putra Malaysia.
- ♦ **The Best Researcher**, FYP, Faculty of Chemical Engineering Technology, UniMAP, Malaysia

6. 2020

- ♦ Listed in the **TOP 2% SCIENTISTS** of the World in Analytical Chemistry (**241/87137**), 2020 published by Stanford University, USA.
- ♦ Listed in the TOP 2% SCIENTISTS of the World in respective field: Citation Impact in Single Year 2019 published by Stanford University, USA.
- ♦ Listed as overall rank as 38512 in the World, 2020 published by Stanford University, USA.
- ♦ **Best of the Best award**: Nanodevice for Arsenic Detection in Rice grain- a potential screening tool. NIVAL Research & Innovation (eCRI) 2020, Universiti Malaysia Kelantan.
- ♦ **Gold Medal**: Nanodevice for Arsenic Detection in Rice grain- a potential screening tool. NIVAL Research & Innovation (eCRI) 2020, Universiti Malaysia Kelantan.
- ♦ **Special Polish Award**: MicroRNA (MiRNA) Biosensor Diagnostic System for Early Detection of COVID-19. Malaysia Technology Expo (MTE) 2020.
- ♦ **Gold Medal**: Nanodevice for arsenic detection in rice grains-A potential screening tool. Virtual International Research and Inovation Symposium and Exposition 2020 (RISE), Universiti Tun Hussein Onn Malaysia (UTHM)
- ♦ **Gold Medal**: MicroRNA (miRNA) Biosensor Diagnostic System for Early Detection of COVID-19. Seoul International Invention Fair 2020.
- ♦ **Gold Medal**: MicroRNA (MiRNA) Biosensor Diagnostic System for Early Detection of COVID-19. MTE 2020.
- ♦ **Gold Medal**: Eco-friendly Deep Eutectic Solvents (DES) in Electrochemical Sensing for Early Detection Ovarian Cancer. EREKA 2020, Universiti Malaysia Perlis.

♦ **Gold Medal**: MicroRNA (MiRNA) Biosensor Diagnostic System for Early Detection Ovarian Cancer. EREKA 2020, Universiti Malaysia Perlis.
♦ **Gold Medal**: Nanomaterial Impregnated Aptasensor: Diagnosing Blood Disease Biomarkers. EREKA 2020, Universiti Malaysia Perlis.
♦ **Gold Medal**: Zeobiolite Nanosensor: Microdevice for Instant Disease Diagnosis. EREKA 2020, Universiti Malaysia Perlis.
♦ **Gold Medal**: MicroRNA (MiRNA) Diagnostic System for Early Detection of Ovarian Cancer. Citrex 2020, Universiti Malaysia Pahang, Pahang, Malaysia
♦ Silver Medal: Aptamer-mediated Nano-probes: Microdevice for Instant Disease Diagnosis, ITEX 2020, Malaysia
♦ Silver Medal: Nano-composite Deposition on IDE: Nanobiosensor for Arsenic Detection in Rice Grains. EREKA 2020, Universiti Malaysia Perlis.
♦ Achievement award for high H-index in Universiti Malaysia Perlis
♦ Achievement award for high citations in Universiti Malaysia Perlis
♦ Achievement award for top high-impact publications in Universiti Malaysia Perlis

7. 2019
♦ ***Post-graduate Committee Chair*** *– School of Bioprocess Engineering, Universiti Malaysia Perlis*
♦ **China-ASEAN Scholar** – September-October 2019, Tianjin University, Tianjin, China.
♦ **Gold Medal:** 30th International Invention, Innovation & Technology EXPO (ITEX-2019), Malaysia
♦ Silver Medal: 30th International Invention, Innovation & Technology EXPO (ITEX-2019), Malaysia
♦ **Gold Medal**: Nano Urchin Impregnated Sensor. GEGeoGTech-SoME Post-graduate Open day, Universiti Malaysia Perlis.
♦ **Gold Medal**: Zeolite-mediated Genosensor. GEGeoGTech-SoME Post-graduate Open day, Universiti Malaysia Perlis.
♦ Silver Medal: Arsenic Adsorption on Silica and Graphene nanomaterial. GEGeoGTech-SoME Post-graduate Open day, Universiti Malaysia Perlis.

8. 2018
♦ ***Post-graduate Committee Chair*** *– School of Bioprocess Engineering, Universiti Malaysia Perlis*
♦ **Gold Medal**: Silica-graphene Nanocomposite: A Nanoformulated Fertilizer for Arsenic Removal from Paddy Grain. EREKA 2018, Universiti Malaysia Perlis.
♦ **Gold Medal**: "Non-invasive detection of HPV-16" EREKA 2018, Universiti Malaysia Perlis.
♦ Silver Medal: "*Zeobiolite Genosensor: Nanoprecursor for a New Era Lung Cancer Screening*" EREKA 2018, Universiti Malaysia Perlis.
♦ Bronze Medal: ""*Nano-urchin Impregnated Biosensor: Diagnosing Human Blood Disease Biomarkers*" EREKA 2018, Universiti Malaysia Perlis.
♦ **Gold Medal**: 29th International Invention, Innovation & Technology EXPO (ITEX-2018), Malaysia

9. 2017
♦ ***Post-graduate Committee Chair*** *– School of Bioprocess Engineering, Universiti Malaysia Perlis*
♦ 2017 UniMAP Glorious Series - the Best Service Award
♦ **MAKNA Cancer Research Award**, The Academy of Sciences Malaysia
♦ **The Best Innovation Award** for Cervical Cancer Detection, KiK, Malaysia
♦ **Mevlana Exchange Programme Academic Staff**, Karabuk University, Turkey
♦ **Gold Medal:** Innovation Exploiting Self Creativity Exhibition, UniMAP, Malaysia
♦ Bronze Medal, The 1st International Malaysia-Indonesia-Thailand Symposium on Innovation and Creativity (iMIT SiC2017), UiTM, Malaysia

10. 2016
♦ Certificate of Achievement, Dental Congregation, University of Malaya, Malaysia
♦ The Best Researcher, FYP, School of Bioprocess Engineering, UniMAP, Malaysia
♦ The Best Poster, FYP- Polymer, School of Bioprocess Engineering, UniMAP, Malaysia
♦ **Gold Medal:** FYP- Polymer, School of Bioprocess Engineering, UniMAP, Malaysia
♦ **Gold Medal:** FYP - Clotting factor, School of Bioprocess Engineering, UniMAP, Malaysia
♦ Silver Medal, FYP- Gene transfer, School of Bioprocess Engineering, UniMAP, Malaysia
♦ Silver Medal, FYP- Nanoparticle, School of Bioprocess Engineering, UniMAP, Malaysia
♦ Silver Medal, FYP- Keratin, School of Bioprocess Engineering, UniMAP, Malaysia
♦ Silver Medal, Innovation Exploiting Self Creativity Exhibition, UniMAP, Malaysia
♦ Bronze Medal, Innovation Exploiting Self Creativity Exhibition, UniMAP, Malaysia

11. 2015
♦ **Gold Medal**: Faculty of Engineering Technology, UniMAP, Malaysia
♦ The Best FYP Assignment 2015, Faculty of Engineering Technology, UniMAP, Malaysia

12. 2012
♦ **The Best Paper award** 2012, PSRC 2012 International Conference Program, Thailand

13. 2010
♦ **Distinguished Visitor 2010, Brain Gain Malaysia** from MOSTI, Malaysia
♦ **The Best Paper award** 2010, European Science Foundation, Spain

14. 2008
♦ **The Excellent Academic award** 2008, Optical Society, Singapore

15. 1998
♦ **The Best Paper Award**, International workshop on ethics in Science and Medicine, India

16. 1993
♦ GATE'93 - Qualified for *GRADUATE APTITUDE TEST IN ENGINEERING*, India

G. SUPERVISION

Course	Completed	On going	Total
Ph.D.	14	18	32
M.Sc.	9	3	12
Post-doc	1	3	4
Mentee	3	0	3
Undergraduate (Final Year Project; FYP)	28	2	30
Undergraduate (Industrial training)	19	0	19

*** *Main Supervision*** *[7 Ph.D.; 3 Master's; 3 Post-doc; 3 Mentee];* **# *International candidate***

Post-doctoral fellows

No.	Degree/ Year	Title of the Project	Candidate Name	Institution
1.	***#Postdoc** Current	Optimization on nanomaterial product from biological sources	Dr. N. Supraja [International]	UniMAP
2.	***#Postdoc** Current	Interaction of curcumin and metal ions on electrode surface	Dr.K.K. Kungumaraj [International]	UniMAP
3.	***#Postdoc** Current	Synthesis, characterization and applications of Titania nanostructures in biosensing	Dr. M. Mumjitha [International]	UniMAP
4.	**Post-doc** Completed	Label-free detection of glycosylation for detection of prostate cancer	Dr. Siti Farimah Abd Rahman	UniMAP
5.	***Mentee** Current	Programme for excellence & mentorship in research (PEER)	Dr. Shahidah Arina Sharmsuddin; Hanna Ilyani Zulhaimi; Mohamad Fahrurrazi Tompang	UniMAP

Post-graduates

No.	Degree/ Year	Title of the Project	Student Name	Institution
6.	***Ph.D.** Completed	Gold Nanostructures in Mediating High-performance Medical Diagnosis of Human Blood Disease Biomarkers [Graduate on-time with Distinction]	Iswary Letchumanan	UniMAP
7.	***Ph.D.** Completed	Aluminosilicate Nanocomposite Incorporated Genosensor for Diagnosing Epidermal Growth Factor Receptor Mutant of Non-small Cell Lung Carcinoma. [Graduate on-time with Distinction]	Santheraleka Ramanathan	UniMAP
8.	***Ph.D.** Completed	Synthesis of Silica Nanoparticles and Graphene from Incinerated Paddy Straw Fly Ash for Efficient Absorption and Detection of Arsenic. [Graduate on-time with the Best thesis]	Muhammad Nur Aiman Uda	UniMAP
9.	***Ph.D.** Completed	Aptamer Generation against Gamma–carboxyglutamic Acid-rich Domain by Monolex: Diagnosis of Human Blood Clotting Defect on Nanostructured Aptasensor. [Graduate on-time with the Best thesis]	Hemavathi Krishnan	UniMAP
10.	***# Ph.D.** Current	Parkinson's Disease Protein Biomarker Analysis: Faradaic and non-Faradaic Impetrometic Analysis	Hussaini Adam [International]	UniMAP
11.	***Ph.D.** Current	Synthesising a Single atom tungstom nanomaterial for the application of semi-conducting elements	Hanna Ilyani Zulhaimi	UniMAP
12.	***Ph.D.** Current	Fabrication and High-performance Hand-held Sensing System for Clinical Biomarker Analysis	Lim Jia Chun	UniMAP
13.	**Ph.D.** Completed	Encapsulation of *Dicranopteris linearis* partition extract into nanocellulose particles for an anti-ulcer property	Anis Adilah Binti Ahmad	UniMAP
14.	**Ph.D.** Current	Synthesis and Characterization of Alginate/Lysozyme Nanomultilayer Coating: An Assessment of Coating Performance on Storage Quality of *Harumanis* Mango	Nor Helya Iman Binti Kamaludin	UniMAP
15.	**Ph.D.** Current	Formulation of selective green fungicide from fatty acids and terpenes based nanoemulsion system for mitigating anthracnose fungus *Colletotrichum gloeosporioides*	M.J. Gidado	UniMAP
16.	**Ph.D.** Current	Selective Inhibitory Mechanism of Alpha Momorcharin Protein and Toxicology Study on *Thricoderma Harzianum* and Diploid Human Fibroblast Cell Lines	Norhidayah Binti Abd Aziz	UniMAP
17.	**Ph.D.** Current	Hybrid of PANI/PEI/CNTs ternary Composite as a Sensing Channel for the Detection of DNA Hybridization	Sami Sultan Ahmed Omar	UTP
18.	**Ph.D.** Current	Bioactive compounds of *Elephantopus scaber* (Tutup bumi) at different light intensities for wound healing activities	Mohd. Riyadh Mohd. Al-Ani	UniMAP
19.	**Ph.D.** Current	Kimia and novel lead recovery approach from rubber wastewater industry using emulsion liquid membrane formulation	Nur Hulwani Binti Ibrahim	UniMAP
20.	**Ph.D.** Current	Detection of cardiac troponin I (cTnI) using carbon nanotube-doped Palladium towards prediction of heart attack.	Emily Chow May Yan	UniMAP
21.	**Ph.D.** Completed	Multiple detections of pathogenic *Burkholderia Pseuddmallei* and *Leptospira* sp. Causing post flood-based diseases, Melioidosis and Leptospirosis, respectively from the environment and clinical samples using nanobiosensor technology	Adilah Binti Ayoib	UniMAP
22.	**Ph.D.** Completed	Underlap Field-Effect Transistor (FET) based biosensing device for detection of Prostate-specific antigen (PSA) Biomarker	Conlathan Ibau	UniMAP
23.	**Ph.D.** Completed	Palm oil biowaste-derived graphene nanocomposites for sustainable Acute Myocardial Infarction (AMI) biosensor development	Mugashini Alagari@Vasudevan	UTP
24.	**Ph.D.** Current	Aluminum-doped Zinc oxide mediated spatial immobilization for Dengue serotyping	Karima Gherab	UniMAP
25.	**Ph.D.** Current	Quaternary (CZTS) alloy-based nanobiosensor has grown on different substrates for leptospirosis DNA detection	Monther Faek A'Yesh Alsboul	UniMAP

26.	**Ph.D.** Completed	Reduced Graphene Oxide Basal Plane Construct on Gold microelectrode Surface for Cardiac Biomarker Analysis	Steven Taniselass	UniMAP
27.	**Ph.D.** Completed	Faradaic Electrochemical Impedimetric Decorated MoS_2/Au for C-reactive Protein Detection	Dalila, N.R	UniMAP
28.	**Ph.D.** Completed	Development of Biosensor for Mycotoxin Detection	Sangeetha Siva Sangu	UTP
29.	**Ph.D.** Completed	Hybrid Nanoflower Enhanced Non-Faradaic Electrochemical Biosensor for Tuberculosis Detection	Indra Gandi Subramani	UTP
30.	**Ph.D.** Current	Therapeutic molecular study on Esophageal cancer: the potential aptamer in treatment	Nur Syafiqah Rahim	University of Malaya
31.	**Ph.D.** Current	Anti-Exosome aptamer generation by next-generation sequencing for targeted drug-delivery	Phang Wai Mei	University of Malaya
32.	**Ph.D.** Completed	Substrate-Gate Coupling in ZnO-FET Biosensor for Cardiac Troponin I Detection	Fathil, M.,	UniMAP
33.	**Ph.D.** Completed	Interdigitated Electrode sensor for the diagnosis of Cervical Cancer	Nor Azizah Parmin	UniMAP
34.	**Ph.D.** Completed	Generation of the anti-Erythropoietin aptamer for doping and cancer therapy	Citartan Marimuthu	Univ. Sains Malaysia
35.	**Ph.D** Current	Development of DNA Multi Bisensor for Human Papillomavirus (HPV) Strains 1 6, 18, and 58 for Early Detection of Cervical Cancer	Nur Syahen Koo Siew Kim	UniMAP
36.	***#M.Sc.** Completed	Parkinson's Disease Protein Biomarker Analysis on Varied Gap-fingered Zinc Oxide-gold Nanorod Nanocomposite with Interdigitated Aluminum Electrodes	Hussaini Adam [International]	UniMAP
37.	***M.Sc.** Completed	Production and characterization of Titanium oxide Nanoparticle using sea-vegetable	Muhammad Syazwan Paraja	UniMAP
38.	***M.Sc.** Current	Layering bacterium-imprinted polymer nanoparticles on membrane filter for capturing bacterial contaminants in water	Tan Sing Mei	UniMAP
39.	***M.Sc.** Current	The Capabilities of Enhanced Biosolid Usage on Food Crop	Ahmad Nazrul bin Hashim	UniMAP
40.	**M.Sc.** Completed	Mouse mammary tumor virus DNA biomarker analysis for breast cancer: Signal enhancement by gold-nanoparticles-coupled tetravalent streptravidin-biotin strategy	Arya Ghosh	Calcutta Inst of Pharm Tech & All Health Sci,
41.	**M.Sc.** Completed	Diagnosis of *O*-glycosylated Biomarker in Prostrate cancer	Indhra	UniMAP
42.	**M.Sc.** Current	Biosensor for Detecting Plant Diseases	Nabihah Binti Mohammad Illias	UTP
43.	**M.Sc.** Completed	Development of Cellulose Acetate Nanofiber on Flexible Substrate for Biosensing Application	Mugashini Alagari@Vasudevan	UTP
44.	**M.Sc.** Completed	Transcriptome analysis, identification and characterization of novel npcRNA in *Staphylococcus epidermidis*	Archana Elangkeeran	AIMST University
45.	**M.Sc.** Completed	Transcriptome analysis and differential expression of non-coding RNA & mRNA during normal and biofilm formation of *Salmo. Typhi*	Devarubini Kumaraguru	AIMST University
46.	**M.Sc.** Completed	Detection of physically adsorbed influenza viruses on Waveguide-mode sensing plates	Akito Izaki	Waseda University
47.	**M.Sc.** Completed	Design of hand-held Waveguide-mode sensor for bio-recognition	Katsuaki Sugimoto	Waseda University

Under-graduates

No.	Degree/ Year	Title of the Project	Student Name	Institution
48.	**FYP** 2025	Non-thermal plasma treatment for the enhanced germination of Mung bean seeds	NUR HAIFAA NASUHA ISHAK	UniMAP
49.	**FYP** 2025	Non-thermal plasma treatment for the enhanced germination of Fenugreek seeds	Fahmi	UniMAP
50.	**FYP** 2024	FENTON REACTION MEDIATED ETCHING ON SI WAFER	KHOR QIAO WEI	UniMAP
51.	**FYP** 2024	FENTON-REACTION MEDIATED ETCHING FOR SI POWDER	Penny Lai Jing Ping	UniMAP
52.	**FYP** 2023	Recovery of gold material from discarded ATM cards for sensing application	Amni Amirah Binti Yusop	UniMAP
53.	**FYP** 2023	Recovery of silica material from discarded preservative gel Desiccant for sensing application	Tan Pei Yu	UniMAP
54.	**FYP** 2023	Extracting dye from 'Mangosteen' to determine absorbance efficiency by TiO2 for dye- sensitised solar cells	Mohamed Iskkandar Faiz Bin Abdul Halim	UniMAP
55.	**FYP** 2023	Extracting dye from 'Beetroot' to determine absorbance efficiency by TiO2 for dye- sensitised solar cells	Muhammad Danish Bin Mohd Anafiah	UniMAP
56.	**FYP** 2022	Recycling Discarded Printed Circuit Boards into Copper Oxide Nanoparticle for Sensing Application	Saw Zheng Ee	UniMAP
57.	**FYP** 2022	Analyzing Vitiligo skin hydration on Interdigitated Electrode sensor	Siti Nurfarahdeana Suhada Binti Alias	UniMAP

58.	**FYP** 2022	Recycling Discarded Mobile Phone Tempered Glass into Silica Nanoparticle for Sensing Application	Nur Amira Afiqah Binti Shaharudin	UniMAP
59.	**FYP** 2022	Analyzing shape and size dependent sensing potential of gold nanomaterials by ELISA	Mohamad Danial Bin Hairul Anuar	UniMAP
60.	**FYP** 2021	Drug-encapsulation and Characterization of Cellulose Particle produced from Recycled facemask	Dang Suria Osman	UniMAP
61.	**FYP** 2020	Nano-formulation of Eggshell by Alkalization and Neutralization for Seed Priming and Growth	Ng Pe Han	UniMAP
62.	**FYP** 2020	Controlling Bacterial Population during Sprouting by Lemon Extract Treatment	Siti Mazni Elliainie	UniMAP
63.	**FYP** 2020	Production and Characterization of Silver Nanoparticle using Beetle Exoskeleton extract	Muhammad Arshad	UniMAP
64.	**FYP** 2020	Nano-formulation of Banana peel by Alkalization and Neutralization for Seed Priming and Growth	Samantha Paramshivam	UniMAP
65.	**FYP** 2020	Microwave Synthesis of Silica Nanoparticles from Carbonaceous Chinese Joss Paper for Methylene Blue adsorption	Shriraam Ashokkumar	UniMAP
66.	**FYP** 2020	Production and Characterization of Iron Oxide Nanoparticle using Chitin-rich Cockroach Wings.	Engku Siti Nurhidayah	UniMAP
67.	**FYP** 2019	Green production and characterization of cadmium nanoparticle by filamentous fungal secretion	Azian binti mohd suhaimi	UniMAP
68.	**FYP** 2019	Synthesization and characterization of cobalt nanoparticle using seaweed	Lee Shu Hua	UniMAP
69.	**FYP** 2019	Production of silica/zeolite nanoparticle from incinerated cow dung and antimicrobial potential	Muhammad Adli bin Aswadi	UniMAP
70.	**FYP** 2019	Combustion of coconut coir for bioproduction of silica/Zeolite nanoparticles towards dye removal	Mahad Mohamed	UniMAP
71.	**FYP** 2019	Production of Silica nanoparticle from incinerated coconut shell for heavy-metal removal.	Maathiniyaar Arumugam	UniMAP
72.	**FYP** 2019	Bioproduction of Zinc Oxide nanoparticles for down-stream applications	Malinie Rajasingam	UniMAP
73.	**FYP** 2018	Recycling durian peel for iron oxide nanoparticle production by eco-friendly green synthesis	Leong Poh Yan	UniMAP
74.	**FYP** 2018	Encapsulation of extracellular enzymes from fungus for enhanced activities	Tan Wan Yuen	UniMAP
75.	**FYP** 2018	Eco-friendly green reduction of graphene oxide by aqueous medicinal phyto-extract	Wei Peng	UniMAP
76.	**FYP** 2017	Characterization and properties of graphene/single-walled carbon nanotube	Mu EE Foo	UniMAP
77.	**FYP** 2017	*Andragraphis paniculata* herbal extract captured gold nanoparticle to evaluate antimicrobial activity	Nurulshima Binti Razalli	UniMAP
78.	**FYP** 2017	Encapsulation of cow urine in cellulose nanoparticle for effective inhibition of pathogenic bacteria	Koh Hann Suk	UniMAP
79.	**FYP** 2017	Green synthesis of *Solanum trilobatum* induced silver nanoparticle to enhance the antimicrobial activity	Santheraleka Ramanathan	UniMAP
80.	**FYP** 2016	Multiple Antibiotics Loaded Starch Nanoparticle: A Strategy to Prevent Wide Range Bacteria	Nor Syahida Ismail	UniMAP
81.	**FYP** 2016	Horizontal Gene Transfer and Expression: Generating Antibiotic Resistance Bacteria	Md Amin Awang Teh@ Ismail	UniMAP
82.	**FYP** 2016	Analyses on Inhibition mechanism of Human Blood Clotting Factor-IX by Protein from Snake Venom	Ng Zhang Jin	UniMAP
83.	**FYP** 2016	Polymer-mediated biosensing.	Anniebell Stanley	UniMAP
84.	**FYP** 2016	Keratinolytic Potential of Strains Isolated from Feather-dumping Sites	Amira Nasyrah Mohd Husin	UniMAP
85.	**Industrial** 2021	Electrodes for Semiconductor Applications: Pattern & Designing	Sangeethaa Ravichandar	UniMAP
86.	**Industrial** 2021	Potential Role of Multidimensional Graphene-based Materials in Semiconductor industries	Nesalny Neelavannan	UniMAP
87.	**Industrial** 2017	Green synthesis iron oxide nanoparticle nanoparticles from leaf extract of *Eclipta prostrata*	Goh Chee Shann	AIMST University
88.	**Industrial** 2017	Non-coding RNA sequence-mediated detection of *Proteus mirabilis* on nanogapped impedimetric sensor	Navien Tholasi Nadhan	AIMST University
89.	**Industrial** 2017	Non-coding RNA sequence-mediated detection of *Klebsiella pneumoniae* on nanogapped impedimetric sensor	Thevendran Ramesh	AIMST University
90.	**Industrial** 2017	Report on *Phyllanthus niruri plant extracts:* A green reducing agent for the preparation of graphene	Chan Jing Ying	AIMST University
91.	**Industrial** 2017	Development of an in-house pH biosensor	Chong Jia Heng	AIMST University
92.	**Industrial** 2017	Non-protein coding RNA-mediated detection of *Staphylococcus aureus* on unmodified gold nanoparticle	Vicneswarry Dorairaj	AIMST University
93.	**Industrial** 2017	Controlled aggregation and dispersion of gold nanoparticle by non-protein-coding RNA for the detection of *Proteus mirabilis*	Dinashine Jaganathan	AIMST University

94.	**Industrial** 2015	Comparative Analysis of fliC Gene from *Salmonella enterica* Sub-species for Biosensor Probe Design and Phylogenetic Tree Construction	Satisvar Sundera Murthe	AIMST University
95.	**Industrial** 2015	FET sensor to evaluate variations in pHs	Ong Dee Vie	AIMST University
96.	**Industrial** 2015	Detection of Factor IX in nanogapped sensor	Koh Yan Jue	AIMST University
97.	**Industrial** 2015	Aptamer-mediated detection of ATP in human urine	Renee Ang Xin Yi	AIMST University
98.	**Industrial** 2015	DNA Extraction of Based on Microfluidic	Teh Shi Ying	AIMST University
99.	**Industrial** 2015	Salivary glucose measurement for diabetes mellitus patient	Nur Jihan Binti Mahamad Radzi	AIMST University
100.	**Industrial** 2015	Evaluation of Factor IX Deficiency by Interdigitated Electrode (IDE)	Kavithannjali Kanniah	AIMST University
101.	**Industrial** 2015	Nanogapped impedimetric immunosensor for the detection of 16 kDa heat shock protein against *Mycobacterium tuberculosis*	Shereen Rani Selvarajah	AIMST University
102.	**Industrial** 2015	Aptamer-based Impedimetric Determination of the Human Blood Clotting Factor IX in Serum using an Interdigitated Electrode Modified with a ZnO Nanolayer	Ong Chong Cheen	UniMAP
103.	**Industrial** 2014	Lipase-secreting *Bacillus species* in an oil-contaminated habitat: promising target strains to alleviate oil pollution	Hudzaifah Mohd. Karbul	USM
104.	**Industrial** 2014	Micro-encapsulation of Antibiotic in Cellulose Nanoparticle Inhibits Bacteria	Chong Sing Goh	USM

H. GRANTS

Grant	Completed	On going	Total	Amount (RM)
International	6	1	7	3831280
National	19	16	35	4747256

International Grants

No.	Duration	Title of the Project	Role	Amount	Agency
1.	2024-26	High sensitive detection of CER on interdigitated electrode for diagnosing	**Principal Investigator**	RM. 10,280	Collaboration **CHINA**
2.	2021-23	High-performance Diagnosis of Breast Cancer on Chemically Functionalized Dual Electrode Surface	**Principal Investigator**	RM. 12,490	Collaboration **CHINA**
3.	2020-21	Surveillance System on Epidemic and Pandemic Respiratory Viruses: A Controlled Internet of Things with Gaussian Noise Channel Algorithmic Model	Co-Researcher	RM. 200,000	COVID-19-JICA **JAPAN**
4.	2020-21	Label-free detection of glycosylation and microRNA (miR-16) for detection of Prostate Cancer (PCa)	Co-Researcher	RM. 66,000	MYPAIR-**FRANCE**
5.	2008-12	Developing BioDVD platform for high throughput analysis.	**Joint Investigator**	JPY 100 M	JST, **JAPAN**
6.	2008-13	Surveillance of influenza viruses on palm-type waveguide sensor	**Joint Investigator**	JPY 50 M	NEDO, **JAPAN**
7.	2004-06	Anti-influenza aptamer generation for typing and sub-typing	**Principal Investigator**	JPY 12 M	JSPS, **JAPAN**

National Grants

No.	Duration	Title of the Project	Role	Amount	Agency
8.	2024-27	Interaction Mechanism and Electrical Responses of Breast Cancer Stem Cell Related Genes and Antigens Towards Functionalized Graphene Oxide	Co-Researcher	RM. 150,800	FRGS, Malaysia
9.	2023-26	Elucidating signal transduction mechanistic of activated rice husk carbon-coated screen-printed electrode in detecting respiratory intact viruses.	Co-Researcher	RM. 158,600	FRGS, Malaysia
10.	2023-25	Elucidating Dual-Cardiac Protein Recognition Mechanism Reinforced by Graphene through Impedimetric for Ischemic Heart Diseases	Co-Researcher	RM. 116,695	FRGS, Malaysia
11.	2023-24	Evaluation of Antiviral Activity and Serum Stability of Selected Antiviral Peptides with Nanoparticle Encapsulation Against Four Dengue Virus Serotypes	Co-Researcher	RM. 40,000	Sunway Univ., Malaysia
12.	2022-24	Elucidating Antifungal Mechanism Mediated by Chitosan from Edible Mushroom for Substituting Animal Source in Food Coating.	Co-Researcher	RM. 155,000	FRGS, Malaysia
13.	2022-23	The incentive for the Research – UniMAP, Malaysia	**Principal Investigator**	RM. 4,000	UniMAP Malaysia
14.	2021-23	Parkinson's Disease Protein Biomarker Detection: Faradaic & Non-Faradaic Sensing	**Principal Investigator**	RM. 20,000	GRA, UniMAP
15.	2021-22	The incentive for the Research – UniMAP, Malaysia	**Principal Investigator**	RM. 5,000	UniMAP Malaysia

16.	2020-22	Interaction and Detection of Carcinoembryonic Antigen using Graphene doped Titanium Oxide on Integrated Electrode Biosensor	Co-Researcher	RM. 116,000	FRGS, Malaysia
17.	2020-21	Microwave Synthesis of Silica Nanoparticles from Carbonaceous Chinese Joss Paper for Methylene Blue adsorption	**Principal Investigator**	RM. 20,000	UniMAP
18.	2020-23	Defect Inspection using Deep Learning Computer Vision for Software as a Service (SaaS). **Total grant – 1 million**	**Joint Investigator**	RM. 91,000	MyLab Malaysia
19.	2020-21	Short-term Grant for Post-doctoral Researcher	Co-Researcher	RM. 33,000	STG UniMAP
20.	2020-21	The incentive for the Research – UniMAP, Malaysia	**Principal Investigator**	RM. 5,000	UniMAP Malaysia
21.	2019-21	Acoustical Method of Rodent Control in Paddy Field	Co-Researcher	RM. 34,900	FRGS-Racer Malaysia
22.	2019-21	Elucidation of DNA Multi Biosensor for Early Detection of Cervical Cancer based on surface bio mechanism sensing of High-risk Human Papillomavirus (HPV) strain 16, 18, and 58 in Malaysian Social Culture	Co-Researcher	RM. 40,400	FRGS-Racer Malaysia
23.	2019-22	Behavioral of Tetraspanin L6 Domain Family (TLDF) on Esophageal Squamous Cell Carcinoma Phenotypes and Chemoresistance: Investigation on MicroRNAs and Application of Aptamer-Based Treatment	Co-Researcher	RM 166,000	FRGS, Malaysia
24.	2019-21	Mechanism of thermoplastic welding using SiC nanomaterials as susceptor by microwave heating for medical implants applications.	Co-Researcher	RM 107,000	FRGS, Malaysia
25.	2019-22	Mechanism of Secondary Metabolites Action in Phytosynthesized Iron Nanoparticle against Mosquito Vector Larvae Causes Tropical Diseases and Human Pathogen	**Principal Investigator**	RM 94,000	FRGS, Malaysia
26.	2019-20	The incentive for the Research – UniMAP, Malaysia	**Principal Investigator**	RM 12,000	MIRA, UniMAP
27.	2018-19	The incentive for the Research – UniMAP, Malaysia	**Principal Investigator**	RM 10,800	MIRA, UniMAP
28.	2018-20	Exoelectrogenic Mechanism in Bio-recalcitrant Phenol Reduction using Microbial Fuel Cell System.	Co-Researcher	RM 95,900	FRGS, Malaysia
29.	2017-20	Elucidation of surface modification and interaction of CRP antigen-antibody with semiconductor surface for diagonosing of cardiovascular disease risks.	Co-Researcher	RM 98,200	FRGS, Malaysia
30.	2017-18	MAKNA Cancer Research Award, The Academy of Sciences Malaysia (ASM)	Co-Researcher	RM 27,295	ASM, Malaysia
31.	2017	The incentive for the Research – UniMAP, Malaysia	**Principal Investigator**	RM 10,500	MIRA, UniMAP
32.	2016-17	Mycorrhizal-mediated Nutrient Supply for the Enhanced Production of Muskmelon in Controlled Greenhouse	**Principal Investigator**	RM. 20,000	STG UniMAP
33.	2016-17	Antimicrobial Activity of Aloe Vera Extract Against Selected Plant Fungal Pathogens	**Principal Investigator**	RM. 20,000	STG UniMAP
34.	2016-18	Aptamer-based Field-effect biosensor for HIV-1 Tat protein detection	Co-Researcher	RM. 125,000	PRGS Malaysia
35.	2016-18	Interaction and Mechanism of FET Channel of Graphene Surface towards Aptamer-Cortisol Biomarker for Anxiety Disorder	Co-Researcher	RM. 105,000	FRGS, Malaysia
36.	2016-18	Correlation between lectin-specific glycoproteins biorecognition and the generated electrical response on the functionalized semiconductor	Co-Researcher	RM. 112,800	FRGS, Malaysia
37.	2016-18	Kinetic Degradation of phenolic and flavonoid compound in *Clinachanthus Nutans* using the Pressurized Liquid Extraction Technique	Co-Researcher	RM. 73,000	FRGS, Malaysia
38.	2016-18	Early detection of HPV Cervical Cancer Using Nanotechnology Based Biosensor.	Co-Researcher	RM. 185,000	PRGS, Malaysia
39.	2015-17	The interaction between Mechanism of Cardiac Troponin and Anti-Troponin on the Transducer Surface Towards Prediction of Mild Heart Attack	Co-Researcher	RM. 122,000	FRGS, Malaysia
40.	2015-18	A Simple and Rapid Aptasensors for the Detection of Tuberculosis	Co-Researcher	RM 289,747.00	EScience, Malaysia
41.	2015-18	A novel aptamer-based assay for capturing total Erythropoietin (EPO) from human urine in doping detection of EPO	Co-Researcher	RM 341,843.00	EScience, Malaysia
42.	2015-17	REPORA-6 RNA aptamer that can antagonize EPO and EPO-R interaction acts as a potential therapeutic agent towards alleviating breast cancer	Co-Researcher	RM. 105,000	FRGS, Malaysia
43.	2014-16	RNA aptamer generation by deep sequencing method for Exosome hybridization: an aptamer cargo for cancer diagnosis and therapy	Co-Researcher	RM 399,976	HIR-UM, Malaysia
44.	2011-14	Generation and characterization of RNA aptamer against recombinant human erythropoietin (EPO) by systematic evolution of ligands by exponential enrichment (SELEX)	Co-Researcher	RM 308,706	Escience, Malaysia

I. INTELLECTUAL PROPERTIES

PATENTS

No.	Year	Authors and Title	Type	Number
1.	2024	MOHD IBRAHIM BIN SHAPIAI@ABD. RAZAK ZOOL HILMI BIN ISMAIL, WAN HAFIZUL BIN WAN MOHAMAD SYAHRIZAL BIN SALLEH, MOHD NAJIB MOHD YASIN, **SUBASH C.B. GOPINATH**, AHMAD KAMAL BIN RAMLI, KHAIRIL ASHRAF BIN ELIAS @ MAYAH. AN INSPECTING SYSTEM FOR DETECTING DEFECTS OF AN ARTICLE.	Malaysia	PI2023001427
2.	2022	**Gopinath, S.C.B**., Krishnan, H. Archimedean Nano-MIP Sensor: A prognostic device for clotting disease detection.	Malaysia	PI2022000982
3.	2012	Kumar, P.K.R., Suenaga, E. **Gopinath, S.C.B.,** Mizuno, H. Surveillance of influenza viruses using glycans and aptamers.	Japan	JP2012-001709
4.	2010	Kumar, P.K.R., **Gopinath, S.C.B.,** Suenaga, E. Aptamers for newly emerging influenza viruses.	Japan	JP5717127B2
5.	2008	Amano, C., Otani, T., **Gopinath, S.C.B**., Kumar, P.K.R. Anti-cholesterol aptamer.	Japan	JP2008-003404
6.	2008	Takenaka, H., Furuichi, M., Yagi, H., Akitomi, J., Yamaguchi, M., Waga, I., **Gopinath, S.C.B**., Kumar, P.K.R. Nucleic Acid ligands bind IgG from Mouse.	Japan	JP2008-3485
7.	2007	Kumar, P.K.R., **Gopinath, S.C.B.** Herpes Simplex Virus-1-gD binding to RNA: stability and anti-viral activity.	Japan	JP2007-004135
8.	2004	Kumar, P.K.R., **Gopinath, S.C.B.,** Misono, T., Kawasaki, K. Genotyping human influenza viruses by RNA aptamers.	Japan	JP2004-4441618
9.	2004	Kumar, P.K.R., **Gopinath, S.C.B.,** Misono, T., Kawasaki, K. Method of detecting influenza virus.	Japan	JP2005 130855A

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No.	Year	Authors and Title	Place	Number
1.	2025	Proses permeraman buah mangga harumanis menggunakan ejen pemeraman ethepon 52% W/V SL	Malaysia	CRLY2025P01162
2.	2025	Proses pengawalan kulat pada bunga mangga harumanis menggunakan bahan aktif propineb	Malaysia	CRLY2025P01163
3.	2023	**Gopinath, S.C.B**., Adam, H., Krishnan, H. Lab-on-a-chip Devise: Integration of microfluidics on integrated electrodes.	Malaysia	LY2023P00716
4.	2022	M.K. Arshad, Ibau, C., **Gopinath, S.C.B.,** Fathil, M.F.M., M. Nuzaihan, M.N. Modified interdigitated microelectrodes for prostate cancer's biomarker detection.	Malaysia	CRLY2022P03889
5.	2021	**Gopinath, S.C.B**., Krishnan, H. Archimedean NanoMIP Sensor: A prognostic device for clotting disease detection.	Malaysia	LY2021E03808
6.	2021	Parmin, N.A., Halim, F.S., Hashim, U., Dahalan, F.A., **Gopinath, S.C.B**., Nadhirah Jaapar, N.F. A sensitive microRNA (MiRNA) biosensor based on carbon quantum dots (CQD) for early detection of COVID-19.	Malaysia	LY2021P00572

Commercialization

1. 2013 Our kit (Immuno-Aptamer) for the detection of IgG is available with Wako Chemicals, Japan
2. 2010 Our waveguide sensor is in the market with Ocean OPTEX, Florida, USA

Exposition, Innovation, and Invention

1. 2023 Lab-on-a-Chip Device: Integration of Microfluidics on Interdigitated Electrodes, EREKA, UniMAP, Malaysia.
2. 2022 Archimedean NanoMIP Sensor: A Prognostic Device for Clotting Disease Detection. PECIPTA, MTE, Malaysia.
3. 2021 Archimedean NanoMIP Sensor: A Prognostic Device for Clotting Disease Detection. CITEX, MTE, Malaysia.
4. 2020 Aptamer-mediated Nano-probes: Microdevice for Instant Disease Diagnosis, ITEX, Malaysia
5. 2020 Nanomaterial Impregnated Aptasensor: Diagnosing Blood Disease Biomarkers. EREKA, UniMAP, Malaysia.
6. 2020 Zeobiolite Nanosensor: Microdevice for Instant Disease Diagnosis. EREKA, UniMAP, Malaysia
7. 2019 Nanodevice – Detection of Arsenic in the soil, EREKA, UniMAP, Malaysia
8. 2019 Gold Embedded Interdigtiated Electrode – Blood Disease Biomarker Diagnosis-EREKA, UniMAP, Malaysia
9. 2018 Nanometrological Aptasensor – ITEX 2018, Kuala Lumpur, Malaysia
10. 2017 Nanometrological Aptasensor for blood clotting deficiency – UniMAP Nano Expo, Malaysia
11. 2016 Impedance sensor – UniMAP Nano Expo, Malaysia
12. 2016 Dielectric sensor – UniMAP Nano Expo, Malaysia
13. 2015 INtegrated Extended Electrodes (INEE) – UniMAP Nano Expo, Malaysia
14. 2015 Vision-Ease - UniMAP Nano Expo, Malaysia

J. INDUSTRIAL PARTNERS

	Year	Company
1.	2024-till	**Norxin Expert,** Norxin International Science and Technology Cooperation Base, China
2.	2022-24	Questra Clinical Research Sdn. Bhd., Penang, Malaysia

3.	2022-till	Indah water, Perlis, Malaysia
4.	2020-23	First Central Medical Hospital of Baoding City, Cancer Molecular Pathology and Clinical Research Laboratory, China.
5.	2023-24	Articlets Research Sdn. Bhd., China
6.	2021-23	SilTerra Malaysia Sdn. Bhd., Kulim, Kedah, Malaysia.
7.	2023-till	NORXIN Company, China
8.	2022-23	You Chuang Scientific, China.
9.	2020-till	Cuatro Services Sdn. Bhd., Kuala Lumpur, Malaysia.
10.	2018-till	Future Science, Beijing, China
11.	2015-17	Medical Innovation Ventures Sdn. Bhd., Penang, Malaysia
12.	2005-12	VALWAY Technology Center, NEC Soft Co. Ltd, Tokyo, Japan

K. AGREEMENTS

	Year	Company
1.	2023	MoU, Universiti Malaysia Perlis (UniMAP) & Sree Balaji Medical College and Hospital, Chennai, India
2.	2022	Letter of Intent (LoI) between Universiti Malaysia Perlis and AIMST University, Malaysia
3.	2017	Letter of Intent (LoI) between Universiti Malaysia Perlis and Universiti Technologi Petronas, Malaysia
4.	2010	MoU, National Institute of Advanced Industrial Science and Technology (Japan) & GLAXO (USA)

L. PUBLICATIONS

Research Highlights

No.	Year	Title of highlight
1.	2008	*Waveguide sensor technology appeared in **Nature India**, 261.*
2.	2007	*BioDVD platform technology appeared in **Nature Nanotechnology**, 2: 197*

Articles in Refereed Journals

No.	Year	Title of the Article	Impact Factor	Quartile
1.	2025	Zulhaimi, H.I., **Gopinath, S.C.B.,** Kasim, F.H., Sauli, Z. Active Site in Single Atom Catalyst: An update on Dynamic Behavior and Rational Design Strategy**.** ***Critical Reviews in Solid State and Materials Sciences*** (Under Revision)	8.1	Q1
2.	2025	Mohammed, M., Oleiwi, J.K., Mohammed, A.M., Osman, A.F., Adam, T., Betar, B.O., Gopinath, S.C.B. Artificial intelligence approaches in predicting the mechanical properties of natural fiber-enforced concrete: A comprehensive review. ***Engineering Applications in Artificial Intelligence*** 153: 110933.	7.5	Q1
3.	2025	Citartan, M., Shuid, A.N., Gopinath, S.C.B., Tang, T.H. Selection, characterization and the application of the RNA aptamer in the capture assay of Erythropoietin (EPO). ***Talanta*** (Under Revision).	6.1	Q1
4.	2025	Lim, J-C., **Gopinath, S.C.B**., Tan, S-M., Chow., E.M.Y. Augmented sensitivity in electrolyte determination for sweat analysis: Rapid amperometric quantification by self-induced gold nanorods aggregation. ***Journal of the Taiwan Institute of Chemical Engineers*** 168: 105919.	5.9	Q1
5.	2025	Tan, S-M., **Gopinath, S.C.B**., Lim, J-C., Chow, E.M.Y., Raman, P. Bacteria-imprinted polymer mediates deprotonation on a newly designed capsula capacitive proximity electrode biosensor. ***Journal of the Taiwan Institute of Chemical Engineers*** (In Press)	5.9	Q1
6.	2025	Muthuvijayan, S., Banerjee, D., Chatterjee, S., Theivasanthi, T., **Gopinath, S.C.B**. Nitrogen-Doped Graphene and Iron Oxide nanoparticles for Photocatalytic Degradation. ***Journal of the Taiwan Institute of Chemical Engineers*** (In Press)	5.9	Q1
7.	2025	Kalaiyarasi, J., Pandian, K., **Gopinath, S.C.B**. Electrochemical sensing glutathione, nicotinamide adenine dinucleotide and folic acid in biological fluids using silver nanoparticles dispersed polythionine/graphene nanoflakes composite glassy carbon electrode. ***Journal of the Taiwan Institute of Chemical Engineers*** (Under Revision)	5.9	Q1
8.	2025	Gunny, A.A.N., Gidado M. J, **Gopinath, S.C.B**., Mohd Salleh, N.H., Pareek, S., Balakrishnan, K. Investigating the Impact of Hydrophobic Deep Eutectic Oil-in Water Nanoemulsion on Cell Membrane Degradation and Inhibition of *C. gloeosporioides* in Postharvest Technology. ***Food and Bioprocess Technology*** **18**, 2314–2324.	5.8	Q1
9.	2025	Kaladevi, G., Meenakshi, S., Wilson, P., Pandian, K., **Gopinath, S.C.B.** Interfacial polymerization of AuNPs@PPy/rGO Nanocomposites for the Simultaneous Voltammetric Quantification of Hydrazine and Nitrite in Water. ***Surfaces and Interfaces*** (Under Revision)	5.7	Q1
10.	2025	Li, X., Lu, P., Zhang, W., Niu, Z., Wan, H., **Gopinath, S.C.B**., Li, B. Aminated Si-Al-Fe nanocomposite on dielectrode points sensing junction: A high-performance colorectal aptasensor**.** ***Arabian Journal of Chemistry*** (In Press)	5.3	Q1
11.	2025	Yan, R., Lakshmipriya, T., **Gopinath, S.C.B**., Ismail, I., Subramaniam, S., Chen, Y. $La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O3$-∝ Biosensor for Diagnosing Colorectal Cancer: A Quaternary Alloy on an Interdigitated Electrode. ***Arabian Journal of Chemistry*** 8: 1232024	5.3	Q1
12.	2025	Su, D., Zhang, Z-Z., Luo, W., Zhang, H-J., Guo, J-X., **Gopinath, S.C.B**. Liu, C-L. Diagnosing complex activation factor in Rheumatoid arthritis on nanomaterial modified ELISA. ***Arabian Journal of Chemistry*** (In Press)	5.3	Q1
13.	2025	Adam, H., **Gopinath, S.C.B**., Krishnan, H., Adam, T., Fakhri, M.A., Salim, E.T., Subramaniam, S. Selective determination of alpha synuclein oligomer by faradaic and non-faradaic electrochemical impedance spectroscopic Approaches. ***Bioelectrochemistry*** 161: 108800.	5.0	Q1

14.	2025	Kaladevi, G., Meenakshi, S., Wilson, P., Pandian, K., **Gopinath, S.C.B**.. Interfacial polymerization to synthesis AuNPs@PPy/rGO Nanocomposites for the Simultaneous Voltammetric Quantification of Hydrazine and Nitrite in Water. ***Microchemical journal*** (In press)	4.9	Q1
15.	2025	Krishnan, H., **Gopinath, S.C.B.** Current Applications and Considerations of Macromolecular Imprinted Polymer on Electrochemical Transducing Sensing Surfaces in Clinical Diagnosis. ***Microchemical journal*** (In Press)	4.9	Q1
16.	2025	Meenakshi, S., Jancy Shopia, S., Pandian**,** K., **Gopinath, S.C.B.** Metal-Clay Nanocomposites in Electrochemical Sensor for Detecting Oxygen Reduction and Hydrazine Oxidation. ***Microchemical journal*** 209: 112492.	4.9	Q1
17.	2025	Sharipah et al. **Gopinath, S.C.B.** A Comprehensive Review on Non-Fouling Human Serological Biomarker Analysis and TiO2 Nanomaterial-hybrid Electrical Sensing for Pre-Clinical Assessments. ***Microchemical journal*** (Under Revision)	4.9	Q1
18.	2025	Mahajan, M.R., Kushwaha, O.S., **Gopinath, S.C.B**., More, M.P., Patil, N.P., Sanjaykumar B. Bari, S.B., Patil, P.O. Analytical Methods for Favipiravir: A Critical Review of Estimation in Bulk, Biological Fluids, and Formulations. ***Microchemical journal*** 212: 113246.	4.9	Q1
19.	2025	Lakshmipriya, T., **Gopinath, S.C.B**., Chen, Y, Subramaniam, S. Current Attainments on Nanobiosensors for Diagnosing Atherosclerosis Biomarkers. ***Current Medicinal Chemistry*** (In Press)	4.7	Q2
20.	2025	Lakshmipriya, T., **Gopinath, S.C.B**., Chen, Y. Integration of Artificial Intelligence in Diagnosing Oral Cancer: Challenges and Solutions. ***Current Medicinal Chemistry*** (In Press)	4.7	Q2
21.	2025	Tan, A-A., Wong, Y-L., **Gopinath, S.C.B**., Kiew, L.V., Sasidharan, S., Chen, Y. Comparative Glycoproteomic Analysis of Mouse 4T1 Breast Cancer Model. ***Current Medicinal Chemistry*** (In Press)	4.7	Q2
22.	2025	Adam, H., Lakshmipriya, T., **Gopinath, S.C.B**., Tijjani Adam, Evan T. Salim, Makram A. Fakhri. Impaired striatum Dopamine release in Parkinson's Disease. ***Current Medicinal Chemistry*** (In Press)	4.7	Q2
23.	2025	Samsudeem, M.A., Heng, P.K., **Gopinath, S.C.B**. Comparative Analysis of Non-Traumatic Jejunal and Ileal Perforations: Findings from India and Malaysia. ***Current Medicinal Chemistry*** (In Press)	4.7	Q2
24.	2025	Wang, H., Dai, R., Xia, H., Ding, S., **Gopinath, S.C.B**., Subramaniam, S., Zhao, L. Zeolite-iron oxide hybrid on an interdigitated microelectrode to Auxiliary Monitoring abdominal aortic aneurysms by aptamer-antibody sandwich. ***Current Medicinal Chemistry*** (Under Revision)	4.7	Q2
25.	2025	Gopalakrishan, S., Probhu, D., **Gopinath, S.C.B**. Booming artificial intelligence in oral cancer diagnosis: From image processing to stage classification. ***Current Medicinal Chemistry*** **(**In Press)	4.7	Q2
26.	2025	Lakshmipriya, T., **Gopinath, S.C.B**., Immune Checkpoint Protein for Monitoring Head and Neck cancer Prognosis. ***Current Medicinal Chemistry*** **(**In Press)	4.7	Q2
27.	2025	Anbu, P., **Gopinath, S.C.B**. Pre-stage Oral Cancer Biomarker Analysis in Non-invasive Salivary Samples: A way to go. ***Current Medicinal Chemistry*** **(**In Press)	4.7	Q2
28.	2025	Lakshmipriya, T., **Gopinath, S.C.B**., Prabhu**,** D., Salim, E.T., Fakhri, M.K. Aptamers as a Potential Therapeutic and Screening Molecule for Oral Cancer. ***Current Medicinal Chemistry*** **(**In Press)	4.7	Q2
29.	2025	Lakshmipriya, T., **Gopinath, S.C.B**., Chen, Y., Sasidharan, S., Subramaniam, S., Gunny, A.A.N., Md Ali, U.F., Salimi, M.N., Fakhri, M.A., Salim, E,T., Thirugnanasambandan, T. Scenario for Associating Clinical COVID-19 Biomarkers for Developing Surveillance Platforms. ***Current Medicinal Chemistry*** (In Press)	4.7	Q2
30.	2025	Dhaya Shankaran, P, Abinaya, K, Meenakumari, S, **Gopinath, S.C.B**., Raman, P**.** A Comprehensive review on therapeutic compounds from plants for neurodegenerative diseases. ***Current Medicinal Chemistry*** 32: 1887-1933.	4.7	Q2
31.	2025	Ghose, A., **Gopinath, S.C.B**. Molecular Mechanism of Breast Cancer and Predisposition of Mouse Mammary Tumor Virus Propagation Cycle. ***Current Medicinal Chemistry*** 32: 2330-2348.	4.7	Q2
32.	2025	Lim, J-C., **Gopinath, S.C.B**., Krishnan, H., Tan, S-M. Faradaic and non-faradaic depletions by anodic electrode corrosion with strong electrolytes on tautochrone curve interdigitated electrodes. ***Materials Chemistry Physics*** 331: 130193.	4.3	Q1
33.	2025	Meenakshi, S., Jancy Shopia, S., Subash, B., Pandian, J., **Gopinath, S.C.B.** Advancements in Modified Electrodes with Electrochemical sensors for Detecting Acetaminophen and Caffeine: An Update. ***Critical Reviews in Analytical Chemistry*** 20: 1-27.	4.2	Q1
34.	2025	Suhaimi, M. A. H., Taniselass, S., Md Arshad, M.K., **Gopinath, S.C.B.,** Fathil, M. F. M.. Ramli, M.M., Hasan, I.H**.** Recent Progress in Multi-Analytes Recognition Reinforced by Graphene Derivatives for Cardio Health Assessments. ***Critical Reviews in Analytical Chemistry*** (In Press)	4.2	Q1
35.	2025	Parab, A.R., Ramial, A., **Gopinath, S.C.B.,** Subramaniam, S. Forging the Future of Nanotechnology: Embracing Greener Practices for a Resilient Today and a Sustainable Tomorrow. ***Frontiers in Nanotechnology*** 6: 1506665.	4.1	Q2
36.	2025	Wang, J., Wu, M., **Gopinath, S.C.B**., Idris, A.M., Xi Zhang. Identifying fibril formation on interdigitated parallel microelectrodes for diagnosing Parkinson's disease. ***Biochemical Engineering Journal*** 222: 109831.	3.9	Q1
37.	2025	Remesh, S.D., Karupannan, S., Perumal, V., **Gopinath, S.C.B.,** Ovinis, M., Bothi Raja, P., Arumugam, N., Suresh Kumar, R. Sensitive Detection of Dengue Serotype-4 on Lignin-derived Graphene Nanofibre and Manganese Oxide Composite by DNA-sensing**.** ***Scientific Reports*** (In Press)	3.8	Q1
38.	2025	Tayfour Ahmed, A.E., Dhahi, Th.S., Attia, T.A., Elhassan Ali, F.A., Elobaid, M.E., Adam, T., **Gopinath, S.C.B**. AI-optimized electrochemical aptasensors for stable, reproducible detection of neurodegenerative diseases, cancer, and coronavirus. ***Heliyon*** 11: e41338.	3.8	Q2

39.	2025	Emily M.Y.; Foo, K.L.; **Gopinath, S.C.B.**; Tan, S.J.; Kashif, M.; Heah, C.Y.; Liew, Y.M. Enhanced Heart Attack Prediction Using a Functionalized Carbon Nanotube-Modified ELISA System. ***Journal of Biomedical Materials Research: Part B - Applied Biomaterials*** (Under Revision)	3.4	Q2
40.	2025	Salim, E.T., Abdulrahman, T.E., Ibrahim, RR.K., Mahdi, R., Mohammed, Z.J., Alsultany, F.H., **Gopinath, S.C.B.**, Manikandan, E. Noble Metal Induced Enhanced Photo-transitions by Au-Nb 2 O 5 Core-shell Formation. **Optical and Quantum Electronics** (Under Revision)	3.3	Q2
41.	2025	Aziz, R.A., Salleh, M.N., Saleh, M., **Gopinath, S.C.B**., Eng Giap, S.G**.** Sustainable Yield Improvements in Paddy Cultivation Using Silicon-Enhanced Zeolite. **Sustainable Futures** (Under Revision)	3.3	Q2
42.	2025	Vasudevan, V., Kartikeyan, A., Madhavan, I., Abinaya, K., Krishnan, N., Sakthivelu, M., Dhanbalan, A.K., Devadasan, V., **Gopinath, S.C.B.,** Raman, P. Differential Micro- and Macro-bioactives in Un-germinated and Germinated seeds of *Trigonella foenum-graecum*. ***Journal of Food Measurement and Characterization*** 19**,** 4173–4190.	3.3	Q2
43.	2025	Iswarya, S., Murugesan, M., Hariram, N., Theivasanthi, T., **Gopinath, S.C.B**. Sodium Alginate/ Polyvinyl alcohol / ZnO nanoparticles incorporated Konjac extract for active food packaging. ***Polymer Bulletin*** (In Press)	3.1	Q2
44.	2025	Stephen, A., Tune, B.X.J., Wu, Y.S., Batumalaie, K., Sekar, M., Sarker, M.M.R., Subramaniyan, V,, Fularia, N.K., Fularia, S., **Gopinath, S.C.B**. Withanone as an emerging anticancer agent and understanding molecular mechanisms: Experimental and computational evidence. ***Current Cancer Drug Targets*** 25:574-585.	3.0	Q2
45.	2025	Manimehalai, M., Thirugnanasambandan, T., Venkatesh Sankar, B., Behera, A., **Gopinath, S.C.B**. An overview on single layer graphene production methods with high quality for large scale applications. **BioNanoScience** 15: 1-13.	3.0	Q2
46.	2025	Patil, N.B., Madhavi, V., **Gopinath, S.C.B**., Ramanathan, S., Patil, S.J., Bhalkar, A. Green Synthesised Graphene Nanomaterials and Ligand-based frameworks from Biomass for Sensing Applications: A State-of-the-Art Review. **BioNanoScience** 15: 1-22.	3.0	Q2
47.	2025	Ebenezar Immanuel, J., Balamurugan, M., Prabhuram, S.R., Venkat Kumar, G., Chamseddine, A., Velusamy, P., Bajaber, M., **Gopinath, S.C.B**. Antagonistic *Pseudomonas fluorescens* Mediates Greener Silver Nanoparticle Synthesis for Managing Brown Leaf Spot Disease in Rice. **BioNanoScience** 15: 299.	3.0	Q2
48.	2025	M. Ajitha [a], K. Selvarani, **Gopinath, S.C.B**., T. Theivasanthi. Hydrothermal Production of Multifunctional Zinc Ferrite Nanoparticles as Fertilizer, Supercapacitor Electrode and NPK sensor. **BioNanoScience** 15: 3112.	3.0	Q3
49.	2025	Mahdi, R.O., Salim, E.T., Mahmoud, D., **Gopinath, S.C.B**., Qaeed, M.A. Effect of laser wavelength on the structural, morphological and optical plasmonic properties of Au@WO3 core-shell NPs. ***Plasmonics*** (In Press)	3.0	Q2
50.	2025	Salim, E.T., Mahdi, R.O., Mahmoud, D., **Gopinath, S.C.B**., Alsultany, F.H. Au@WO3 Core-Shell Nanoparticles: An analysis study employing laser Ablation in gold colloidal. ***Plasmonics*** (Under Revision)	3.0	Q2
51.	2025	Salim, E.T., Mahdi, R.O., Mahmoud, D., **Gopinath, S.C.B**., Alsultany, F.H. An Analysis Study Employing Laser Ablation in Gold Colloidal at Different Number of Laser Pulse. ***Plasmonics*** (In Press)	3.0	Q2
52.	2025	Salim, E.T., Mahdi, R.O., Mahmoud, D. *et al.* Effect of Laser Wavelength on the Structural, Morphological, and Optical Plasmonic Properties of Au@WO_3 Core–Shell NPs. ***Plasmonics*** (In Press)	3.0	Q2
53.	2025	Fakhri, M.A., Rasheed, B.G., Abd-Alhussain, M.J., Salim, Z.T., Azzahrani, A.S., Basem, A., **Gopinath, S.C.B**., et al.. Synthesis of PVA- Gold and Silver Nanoparticles Via PLAL to Improve the Performance of the PCF-SPR Glucose Sensor. ***Plasmonics*** **20**: 2321–2331.	3.0	Q2
54.	2025	Salim, E.T., Abbas, R.A., Ibrahim, R.K., Mahdi, R.O., Fakhri, M.A., Azzahrani, A.S., Alsultany, F.H., **Gopinath, S.C.B.,** Salim, Z.T. Impact of Decoration Method on Some Physical Properties of Ag@Cu_2O Nanostructure. ***Plasmonics*** 20: 3593–3603.	3.0	Q2
55.	2025	Salim, E.T., Almukhtar, O., Rafeeq, M.F., Rasool, K.H., Ismail, R.A., Sulaiman, G.M., Jabir, M.S., Mahdi, S.A., Jawad, S.F., Fakhri, M.A., Qaeed**,** M.A., **Gopinath**, S.C.B., Saimon, J.A., Mahdi, R.O.. Innovative Synthesis of Au@WO_3 Core–Shell Nanoparticles via Laser Ablation: Insights into Their Pharmaceutical Properties for Biomedical Applications. ***Plasmonics*** 20, 3817–3829.	3.0	Q2
56.	2025	Ramanathan, S., **Gopinath, S.C.B**., et al. Microalgae and Human Disorders: Mechanistic Insights and Therapeutic Potential. ***Current Topics in Medicinal Chemistry*** (In Press).	2.9	Q3
57.	2025	Lakshmipriya, T., **Gopinath, S.C.B**., Chen, Y., Sasidharan, S., Salim, E.T., Fakhri, M.A. Neurological Inflammation in Parkinsonism: Current Prognosticative Diagnostics and Pitfalls. ***Current Topics in Medicinal Chemistry*** (In Press).	2.9	Q3
58.	2025	Lakshmipriya, T., **Gopinath, S.C.B**. Antibody-aptamer complementation: Advancing biosensing for disease monitoring. ***Current Topics in Medicinal Chemistry*** (Under Revision).	2.9	Q3
59.	2025	Abbas, A.R., Fakhri, M.A., Alwahib, A.A., Salim, E.T., Ali, A.B.M., Azzahrani, A.S., **Gopinath, S.C.B**. Synthesized Aluminum Gallium Nitride/Psi thin films at different compositions by pulsed laser deposition method. ***Physica Scripta*** 100, 015502.	2.9	Q3
60.	2025	Salim, E.T., Mahdi, R.O., Abbas, R.A., **Gopinath, S.C.B**. Optimizing Cuprous Oxide Thin Films: Enhancing Structural and Electrical Properties Through Controlled Hydrothermal Synthesis and Precursor Variations. ***Physica Scripta*** (Under Revision)	2.9	Q3
61.	2025	Salim, E.T., Mahdi, M.M., Obaid, A.S., **Gopinath, S.C.B**., Tailoring the Optical and Electrical Properties of Au@Nb2O5 Core-Shell Nanocomposites via Laser Fluence Control. ***Journal of Materials Science: Materials in Electronics*** (In Press).	2.8	Q2
62.	2025	Ravi, P., Reddy, M.C., Chandrasekhar, T., Chinni, S.V., Reddy, V.L., Adam, H., **Gopinath, S.C.B**. Biogenic nano zinc oxide particle production and their antimicrobial potentials: A Review. ***Journal of Cluster Science*** 36: 1-36.	2.7	Q2

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Book Editor

No.	Year	Title
1.	2025	Hamzah, A.A., **Gopinath S.C.B**., Sharipah, N. "Fundamentals of Biosensor Microsystem". CRE Press, USA. (Invited)
2.	2024	**Gopinath S.C.B**., Ramli, M.M. In: Gopinath, S.C.B., Ramli, M.M. (eds) Hybrid-Nanomaterials. Engineering Materials. Springer, Singapore. eBook ISBN 978-981-97-9022-7; Print ISBN 978-981-97-9021-0 (Invited)
3.	2024	**Gopinath S.C.B**., Thirumurugan, A., Ramadoss, A., Dhanabalan, S.S., Kamaraj, S.K. Surface Modifications of Nanomaterials for Energy, Environmental and Biomedical Applications. In. Micro & Nano Technology Books. Elsevier Inc., (Invited)
4.	2020	**Gopinath, S.C.B.** and Fang Gang. **"**Nanoparticles in Analytical and Medical Devices". Elsevier Inc., **ISBN:** 9780128211632, Chapters 1-15, pp 1-346. Elsevier Inc., ISBN 9780128211632 (https://www.elsevier.com/books/nanoparticles-in-analytical-and-medical-devices/gopinath/978-0-12-821163-2) (Invited)
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Journal Guest Editor

No.	Year	Title
6.	2023	**Gopinath, S.C.B**., Salim, E.T., Fakhri, M.A. Special issue on Nanotechnology's impact on optics and nanopotonics. ***Nanomaterials*** (ISSN 2079-4991, IF 5.72) (Invited)
7.	2022	Velusamy, P., **Gopinath, S.C.B**., Pachaiappan, R. Special Issue on Nanosensors Array for Early Detection of Emerging and Re-emerging Coronaviruses. Under the section "Nano- and Micro-Technologies in Biosensors". **Biosensors** (ISSN 2079-6374, IF 5.7) (Invited)
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9.	2022	Anbu, P., **Gopinath, S.C.B.** Special issue on Precious Metals in Nanomedicine: Assessing the True Value of Gold and Silver. ***International Journal of Molecular Sciences***. (ISSN 1422-0067, IF 5.924) (Invited)
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Book Chapters

No.	Year	Authors & Title
1.	2024	Hussaini Adam, Thangavel Lakshmipriya, **Subash C. B. Gopinath**, Tijjani Adam, Evan T. Salim, Makram A. Fakhri, and Thanganadar Ashokkumar. Introduction to Hybrid Materials and Nanostructures. In: Gopinath, S.C.B., Ramli, M.M. (eds) Hybrid-Nanomaterials. Engineering Materials. Springer, Singapore.
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No.	Year	International conferences/Proceedings
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No.	Year	International conferences/Proceedings
		cervical cancer detection. *AIP Conference Proceedings*, 1808, art. no. 020007.
40.	2017	Fathil, M.F.M., Arshad, M.K.M., **Gopinath, S.C.B**., Adzhri, R., Ruslinda, A.R., Hashim, U. Selectivity verification of cardiac troponin monoclonal antibodies for cardiac troponin detection by using conventional ELISA. *AIP Conference Proceedings*, 1808, art. no. 020016.
41.	2017	Hashim, U., Fatin, M.F., Ruslinda, A.R., **Gopinath, S.C.B**., Uda, M.N.A. Detection of human immunodeficiency virus type 1 (HIV-1) Tat protein by aptamer-based biosensors. *AIP Conference Proceedings*, 1808, art. no. 020021.
42.	2017	Noriani, C., Hashim, U., Azizah, N., Nadzirah, S., Arshad, M.K.M., Ruslinda, A.R., **Gopinath, S.C.B**. HPV DNA target hybridization concentrations studies using interdigitated electrodes (IDE) for early detection of cervical cancer. *AIP Conference Proceedings*, 1808, art. no. 020023.
43.	2017	Azizah, N., Hashim, U., Nadzirah, S., Arshad, M.K.M., Ruslinda, A.R., **Gopinath, S.C.B**. Comparison of different methods for extraction and purification of human Papillomavirus (HPV) DNA from serum samples. *AIP Conference Proceedings*, 1808, art. no. 020037.
44.	2017	Uda, M.N.A., Hasfalina, C.M., Samsuzanaa, A.A., Faridah, S., Zamri, I., Noraini, B.S., Sabrina, W.N., Hashim, U., **Gopinath, S.C.B**. Determination of fixed-potential selection using chronoamperometry analysis by screen-printed carbon electrode for rice tungro bacilliform virus (RTBV) detection. *AIP Conference Proceedings*, 1808, art. no. 020055.
45.	2017	Uda, M.N.A., Hasfalina, C.M., Samsuzana, A.A., Hashim, U., Ariffin, S.A.B., Zamri, I., Nur Sabrina, W., Siti Noraini, B.B., Faridah, S., Mazidah, M., **Gopinath, S.C.B**. Immunosensor development for rice tungro bacilliform virus (RTBV) detection using antibody nano-gold conjugate. *AIP Conference Proceedings*, 1808, art. no. 020058.
46.	2017	Uda, M.N.A., Hasfalina, C.M., Samsuzana, A.A., Faridah, S., Rafidah, A.R., Hashim, U., Ariffin, S.A.B., **Gopinath, S.C.B.** Determination of set potential voltages for cucumber mosaic virus detection using screen-printed carbon electrode. *AIP Conference Proceedings*, 1808, art. no. 020056.
47.	2017	Uda, M.N.A., Hasfalina, C.M., Samsuzanaa, A.A., Faridah, S., Zamri, I., Noraini, B.S., Sabrina, W.N., Hashim, U., **Gopinath, S.C.B**. Immunosensor development formatting for tungro disease detection using nano-gold antibody particles application. *AIP Conference Proceedings*, 1808, art. no. 020057.
48.	2017	Adelyn, P.Y.P., Hashim, U., Arshad, M.K.M., Ruslinda, A.R., Voon, C.H., Ayub, R.M., **Gopinath, S.C.B**., Liu, W.-W., Kahar, S.M., Huda, A.R.N., Lee, H.C. Fabrication and characterization on width of spiral interdigitated electrodes based biosensors. *AIP Conference Proceedings*, 1808, art. no. 020039.
49.	2016	Voon, C.H., Lim, B.Y., **Gopinath, S.C.B**., Tan, H.S., Tony, V.C.S., Md Arshad, M.K., Foo, K.L., Hashim, U. Green Synthesis of Silicon Carbide Nanowhiskers by Microwave Heating of Blends of Palm Kernel Shell and Silica. IOP Conf. Series: Materials Science and Engineering 160 (2016) 012057.
50.	2016	Sin L.L., Md Arshad, M.K., Fathil, M.F.M., Adzhri, R., Ruslinda, A.R., **Gopinath, S.C.B**., Hashim, U. Zinc oxide interdigitated electrode for biosensor application. AIP Conference Proceeding. Inter. Conf. on Nano-Electronic Technology Devices and Materials, Selangor Malaysia. Vol 1733. Article Number 020075.
51.	2016	Jing, K.H., Md Arshad, M.K., Huda, A.R.N., Ruslinda, A.R., **Gopinath, S.C.B**., Nuzaihan M.N., Ayub, R.M., Fathil, M.F.M., Othman, N., Hashim, U. Gate dielectric scaling in MOSFETs device. AIP Conference Proceeding. Inter. Conf. on Nano-Electronic Technology Devices and Materials, Selangor Malaysia. Vol 1733. Article Number 020073.
52.	2016	Fathil, M.F.M., Md Arshad, M.K., Hashim, U., Ruslinda, A.R., **Gopinath, S.C.B**., Nuzaihan M.N., Ayub, R.M., Adzhri, R., Zaki, M., Azman, A.H. Design Architecture of field-effect transistor with back gate electrode for biosensor application. AIP Conference Proceeding. Inter. Conf. on Nano-Electronic Technology Devices and Materials, Selangor Malaysia. Vol 1733. Article Number 020071.
53.	2016	Fathil, M.F.M., Md Arshad, M.F., Hashim, U., Ruslinda, A.R., **Gopinath, S.C.B**., Nuzaihan, M.N., Ayub, R.M., Adzhri, R., Zaki, M. and A.H. Azman. Design architecture of double spiral interdigitated electrode with back gate electrode for biosensor application. AIP Conference Proceeding. Inter. Conf. on Nano-Electronic Technology Devices and Materials, Selangor Malaysia. Vol 1733. Article Number 020070.
54.	2016	R. Adzhri, M. K. M. Arshad, M. F. M. Fathil, U. Hashim, A. R. Ruslinda, R. M. Ayub, **S. C. B. Gopinath**, C. H. Voon, K. L. Foo, M. N. M. N., A. H. Azman, and M. Zaki, Optimization of time CF4/O2 etchant for inductive couple plasmad reactive ion etching of TiO2 thin film. AIP Conference Proceeding. Inter. Conf. on Nano-Electronic Technology Devices and Materials, Selangor Malaysia. Vol 1733. Article Number 020069.
55.	2016	**Gopinath, S.C.B**., Hashim, U., Md Arshad, M.K., Ruslinda, A.R. Generation of aptamer biosensing applications. AIP Conference Proceeding. Inter. Conf. on Nano-Electronic Technology Devices and Materials, Selangor Malaysia. Vol 1733. Article Number 020077.
56.	2016	Zaki, M., Hashim, U., Md Arshad, M.K., Ruslinda, A.R., Ayub, R.M., **Gopinath, S.C.B**., Voon, C.H., Foo, K.L., Adzhri, R., Nuzaihan, M.N, Azman, A.H. "Real-time detection by properties of tin dioxide for formaldehyde gas sensor," in *2015 IEEE Regional Symposium on Micro and Nanoelectronics (RSM)*, pp.1-4.
57.	2016	Adzhri, R., Md Arshad, M.K., Ruslinda, A.R., **Gopinath, S.C.B**., Fathil, M.F,M., Ayub, R.M., Nuzaihan, M., Hashim, U. FET-based biosensors with back-gate coupling towards the electrical pre-amplification of cardiac troponin I detection. IEEE-ICSE 2016, Kuala Lumpur, 208-211.
58.	2016	Tony, V. C. S., Voon, C. H., Lee, C. C., Lim, B. Y., Rahman, W., Hashim, U., Ruslinda, A. R., Arshad, M. K. Md., Foo, K. L., **Gopinath, S. C. B**., Ayoib, A., Thivina, K. V., Ba Hashwan, Saeed S. Microwave Irradiation Assisted Synthesis of Silicon Carbide Nanotubes. *Materials Science Forum* 857: 111-115.
59.	2015	Hashwan, S.S.B, Ruslinda, A.R., Fatin, M.F., **Gopinath, S.C.B**., Thivina, V., Tony, V.C.S., Md Arshad, M.K., Hashim, U. Gold nanoparticles mediated colorimetric assay for HIV-Tat protein detection. AIP Conference Proceeding. Inter. Conf. on Nano-Electronic Technology Devices and Materials, Selangor Malaysia. Vol 1733. Article Number 020088.

No. Year International conferences/Proceedings

60. 2015 Azizah, N., Hashim, U., Md Arshad, M.K., **Gopinath, S.C.B**., Nadzirah, Sh., Farehanim, M.A., Fatin, M.F., Ruslinda, A.R., Ayub, R.M. Integrated titanium dioxide (TiO2) nanoparticles on interdigitated device electrodes (IDEs) for pH analysis. AIP Conference Proceeding. Inter. Conf. on Nano-Electronic Technology Devices and Materials, Selangor Malaysia. Vol 1733. Article Number 020078.
61. 2015 Azizah, N., Hashim, U., Md Arshad, M.K., **Gopinath, S.C.B**., Nadzirah, Sh., Farehanim, M.A., Fatin, M.F., Ruslinda, A.R., Ayub, R.M. Surface morphology of titanium dioxide (TiO2) nanoparticles on aluminum interdigitated device electrodes (IDEs). AIP Conference Proceeding. Inter. Conf. on Nano-Electronic Technology Devices and Materials, Selangor Malaysia. Vol 1733. Article Number 020079.
62. 2015 Muaz, A.K.M., Hashim, U., Md Arshad, M.K., Ruslinda, A.R., Ayub, R.M., **Gopinath, S.C.B**., Voon, C.H., Liu, W-W., Foo, K.L. Study of nanoparticles TiO2 thin films on p-type silicon substrate using different alcoholic solvents. AIP Conference Proceeding. Inter. Conf. on Nano-Electronic Technology Devices and Materials, Selangor Malaysia. Vol 1733. Article Number 020086.
63. 2015 Muaz, A.K.M., Hashim, U., Md Arshad, M.K., Ruslinda, A.R., Ayub, R.M., **Gopinath, S.C.B**., Voon, C.H., Liu, W-W., Foo, K.L. Effect of annealing temperature on structural, morphological, and electrical properties of nanoparticles TiO2 thin films by sol-gel method. AIP Conference Proceeding. Inter. Conf. on Nano-Electronic Technology Devices and Materials, Selangor Malaysia. Vol 1733. Article Number 020087.
64. 2015 Adzhri, R., Ling, T.C., Md Arshad, M.K., Fathil, M.F,M., Ruslinda, A.R., Ayub, R.M., **Gopinath, S.C.B**., Voon, C.H., Nuzaihan, M., Hashim, U. 2015. Titanium dioxide interdigitated electrode (IDE) for detection of cardiac troponin biomarker. ARPN Journal of Engineering and Applied Sciences.
65. 2015 Azizah, N., Hashim, U., Md Arshad, M.K., **Gopinath, S.C.B.,** Nadzirah, Sh., Farehanim, M.A., Fatin, M.F., Muaz, A.K.M., Ruslinda, A.R., Ayub, R.M. Analysis study of single molecule HPV DNA through the gold nanoparticle system by using atomic force microscopy. ARPN Journal of Engineering and Applied Sciences.
66. 2015 Azizah, N., Hashim, U., Md Arshad, M.K., **Gopinath, S.C.B.,** Nadzirah, Sh., Farehanim, M.A., Fatin, M.F., Muaz, A.K.M., Ruslinda, A.R., Ayub, R.M. Analysis study of gold nanoparticle system of interdigitated device electrodes (IDEs) by using energy-dispersive X-ray (EDX). ARPN Journal of Engineering and Applied Sciences.
67. 2015 Fathil, M.F.M., Md Arshad, M.K., Hashim, U., Ruslinda, A.R., Ayub, R.M., **Gopinath, S.C.B**., Voon, C.H., Foo, K.L., Adzhri, R., Nuzaihan, M.N. Selectivity Verification of Cardiac Troponin Monoclonal Antibodies for Cardiac Troponin Detection by using Conventional ELISA. Proceeding of 11th Asian Conference on Chemical Sensors. 289-291.
68. 2015 Roshila, M.L., Hashim, U., Azizah, N., Nadzirah, Sh., Md Arshad, M.K., Ruslinda, A.R., **Gopinath, S.C.B**., Effect of Different Concentration of HPV DNA Probe Immobilization for Cervical Cancer Detection Based IDE Biosensor. Proceeding of 11th Asian Conference on Chemical Sensors.298-299.
69. 2015 Raqeema, S., Hashim, U., Azizah, N., Nadzirah, Sh., Md Arshad, M.K., Ruslinda, A.R., **Gopinath, S.C.B**., Study of Different 3-Aminopropyl Triethoxysilane (APTES) Concentration on TiO2¬ Particles Based IDE for Cervical Cancer Detection. Proceeding of 11th Asian Conference on Chemical Sensors. 300-301.
70. 2015 Zaki, M., Hashim, U., Md Arshad, M.K., Fathil, M.F.M., Ruslinda, A.R., Ayub, R.M., **Gopinath, S.C.B**., Voon, C.H., Foo, K.L., Adzhri, R., Azman, A.H. Development of Gas Sensing Application for Formaldehyde Gas Detection and Characterization of Tin Dioxide. Proceeding of 11th Asian Conference on Chemical Sensors. 314.
71. 2015 Noraini, C., Hashim, U., Azizah, N., Nadzirah, Sh., Md Arshad, M.K., Ruslinda, A.R., **Gopinath, S.C.B**. HPV DNA Target Hybridization Concentrations Studies Using Interdigitated Electrodes (IDE) for Early Detection of Cervical Cancer. Proceeding of 11th Asian Conference on Chemical Sensors. 288.
72. 2015 Farehanim, M.A., Hashim, U., Azizah, N., Fatin, M.F., Azman, A.H., Ruslinda, A.R., Ayub, R.M., Md Arshad, M.K., **Gopinath, S.C.B**., Voon, C.H., Foo, K.L. Investigation of Functionalized Multi-Walled Carbon Nanotubes (MWCNTS) By Reflux Technique. Malaysian Technical Universities Conference on Engineering and Technology (MUCET 2015), Johor Bahru, 11 – 13th October 2015.
73. 2015 Farehanim, M.A., Hashim, U., Azizah, N., Fatin, M.F., Azman, A.H., Ruslinda, A.R., Ayub, R.M., Md Arshad, M.K., **Gopinath, S.C.B**., Voon, C.H., Foo, K.L. Preparation, Morphology and Properties of Acid Modified Multi-Walled Carbon Nanotubes. Malaysian Technical Universities Conference on Engineering and Technology (MUCET 2015), Johor Bahru, 11 – 13th October 2015.
74. 2015 Azizah, N., Hashim, U., Md Arshad, M.K., **Gopinath, S.C.B**., Nadzirah, Sh., Farehanim, M.A., Fatin, M.F., Muaz, A.K.M., Ruslinda, A.R., Ayub, R.M. Energy-dispersive X-ray (EDX) analysis study of single gold nanoparticle system of Interdigitated Device Electrodes (IDEs). Malaysian Technical Universities Conference on Engineering and Technology (MUCET 2015), Johor Bahru, 11 – 13th October 2015.
75. 2015 Azizah, N., Hashim, U., Md Arshad, M.K., **Gopinath, S.C.B**., Nadzirah, Sh., Farehanim, M.A., Fatin, M.F., Muaz, A.K.M., Ruslinda, A.R., Ayub, R.M. Atomic Force Microscopy Study of Single Molecule HPV DNA through the Gold Nanoparticle System. Malaysian Technical Universities Conference on Engineering and Technology (MUCET 2015), Johor Bahru, 11 – 13th October 2015.
76. 2015 Adzhri, R., Md Arshad, M.K., Fathil, M.F.M., Hashim, U., Ruslinda, A.R., Ayub, R.M., **Gopinath, S.C.B**., Voon, C.H., Foo, K.L., Nuzaihan M.N., Azman, A.H., Zaki, M. Reactive ion etching of TiO2 thin film: The impact of different gaseous. RSM2015 Proc. 207.
77. 2015 Adzhri, R., Md Arshad, M.K., Fathil, M.F.M., Hashim, U., Ruslinda, A.R., Ayub, R.M., **Gopinath, S.C.B**., Voon, C.H., Foo, K.L., Nuzaihan M.N., Azman, A.H., Zaki, M. Characteristics of TiO2 Thin Film with Back-Gate Biasing for FET-Based Biosensors Application. RSM2015 Proc. 211.
78. 2015 Nurismaliza, Ruslinda, A.R., Md Arshad, M.K., **Gopinath, S.C.B**., Fatin, M.F., Voon, C.H., Foo, K.L., Hashim, U., Ayub, R.M. Surface Properties of Modified Nanodiamond on Silicon via a Spray Method. RSM2015 Proc. 348.
79. 2015 Fadhlina, M., Ruslinda, A.R., Md Arshad, M.K., **Gopinath, S.C.B**., Fatin, M.F., Voon, C.H., Foo, K.L., Hashim, U., Ayub, R.M. Study on Chemically Modified Graphene Platforms for Biosensor Applications. RSM2015 Proc. 352.

No.	Year	International conferences/Proceedings
80.	2015	Ba Hashwan, S.S., Ruslinda, A.R., Fatin, M.F., Thivina, V., Tony, V.C.S., Munirah, M., Md Arshad, M.K., Voon, C.H., Ayub, R.M., **Gopinath, S.C.B**., Muda, M.R., Ramli, M.M., Hashim, U. Fabrication and Electrical Characterization of Graphene Oxide as Transducing Channel for Biosensor Application. RSM2015 Proc. 219.
81.	2015	Huda, A.R.N., Md Arshad, M.K., Othman, N., Voon, C.H., Ayub, R.M., **Gopinath, S.C.B**., Foo, K.L., Ruslinda, A.R., Hashim, U., Cheun Lee, H., Adelyn, P.Y.P., Kahar, S.M. Electron Concentration Behavior in Junctionless vs Junction Soi N-Mosfet. RSM2015 Proc. 132.
82.	2015	Huda, A.R.N., Md Arshad, M.K., Othman, N., Voon, C.H., Ayub, R.M., **Gopinath, S.C.B**., Foo, K.L., Ruslinda, A.R., Hashim, U., Cheun Lee, H., Adelyn, P.Y.P., Kahar, S.M. Impact of Size Variation in Junctionless vs Junction planar Soi N-Mosfet Transistor. RSM2015 Proc. 136.
83.	2015	Muaz, A.K.M., Hashim, U., Azizah, N., Md Arshad, M.K., Foo, K.L., Ruslinda, A.R., Ayub, R.M., **Gopinath, S.C.B**., Voon, C.H. Integrated of IDEs with TiO2 Nanoparticles Thin Films for pH Sensor. RSM2015 Proc. 356.
84.	2015	Muaz, A.K.M., Hashim, U., Azizah, N., Md Arshad, M.K., Foo, K.L., Ruslinda, A.R., Ayub, R.M., **Gopinath, S.C.B**., Voon, C.H. TiO2 Anatase Phase Structure Growth, Morphological Optical and Electrical Characterization by Different Alcoholic Solvents. RSM2015 Proc. 360.
85.	2015	Fathil, M.F.M, Md Arshad, M.K., Hashim, U., Ruslinda, A.R., Ayub, R.M., **Gopinath, S.C.B**., Voon, C.H., Foo, K.L., Adzhri, R., Nuzaihan M.N, Azman, A.H., Zaki, M. Preparation, Deposition and Characterization of Zinc Oxide Thin Film for Field-effect Transistor-Based Biosensors Application. RSM2015 Proc. 340.
86.	2015	Zaki, M., Hashim, U., Md Arshad, M.K., Ruslinda, A.R., Ayub, R.M., **Gopinath, S.C.B**., Voon, C.H., Foo, K.L., Adzhri, R., Nuzaihan, M.N, Azman, A.H. Real-Time Detection by Properties of Tin Dioxide for Formaldehyde Gas Sensor. RSM2015 Proc. 215.
87.	2015	Adelyn, P.Y.P., Hashim, U., Ha, Y.P., Md Arshad, M.K., Ruslinda, A.R., Ayub, R.M., **Gopinath, S.C.B**., Voon, C.H., Foo, K.L. Transparent Mask Design and Fabrication of Interdigitated Electrodes. RSM2015 Proc. 267.
88.	2015	Azaddin, A.H., Ayub, R.M., Azman, A.H., Md Arshad, M.K., Fathil, M.F.M., Hashim, U., Ruslinda, A.R. **Gopinath, S.C.B**., Voon, C.H., Foo, K.L. The Effect of Aluminum Nanoparticle on the Seebeck Coefficient of Biomedical Thermoelectric Devices. RSM2015 Proc. 344.
89.	2013	Awazu, K., Fujimaki, M. and **Gopinath, S.C.B**. Palmtop waveguide-mode sensor: comparison of sensitivity and subtyping of influenza viruses with SPR, ELISA and immunochromatography. Sensors, IEEE. 399-401.
90.	2005	**Gopinath, S.C.B.**, Kawasaki K, Kumar PK. Selection of RNA-aptamer against human influenza B virus. - - ***Nucleic Acids Symp. Ser. (Oxf)***, 49: 85-86.
91.	1998	N.S. Kavitha, A. Hilda, **Gopinath, S.C.B**., P. Anbu. Health concerns in public parks and play fields in educational institutions. In: Proceeding on Environment and Bioethics. Ed. Darryl Macer, Eubios Ethics Institute, NZ, pp.128-137. pp. 9-17.
92.	1998	Kavitha, N.S., Hilda, A., **Gopinath, S.C.B.**, P. Anbu**.** Removal of feather waste from the chicken stalls by eco ethical technology. In: Proceeding on the environment and Bioethics. Ed. Darryl Macer, Eubios Ethics Institute, NZ, pp.101-114.

Keynote*/Plenary*

No.	Type	Title of the Talk	Year	Place
1.	**Keynote**	"Functional nanomaterials in clinical diagnostics: Roads and destinations" FuNTech's international symposium. 2nd International symposium on Sustainable Pathways: Green Synthesis for Functional Materials and Eco-Friendly Applications (SMA2025). Walailak University, 28-29 March.	2025	Thailand
2.	**Keynote**	*"Nanomaterial incorporations in medical diagnostics: Roads & Destinations"* Nanotechnology Malaysia Annual Symposium (NANOSYM 2024), 10 & 11th October, Kuala Lumpur.	2024	Malaysia
3.	**Keynote**	*"Clinical Research for Potentials Collaborations with Laboratories in China".* "The Belt & Road' International Biomedicine and Rural Medicine Science and Technology Cooperation and Exchange Conference" by Xi'an Science and Technology Bureau & Norxin International Scientific and Technology Cooperation Base. 19th to 25th September, Xian.	2024	China
4.	**Keynote**	"Sustainable green nanomaterials for bioscience and zero waste management" on an international one-week online faculty development program on "Innovations in high-performance materials for sustainable energy and environmental impacts. 29th April-4th May.	2024	India
5.	**Plenary**	"Green synthesis of nanomaterials and applications in Bioscience and technology" FuNTech's international symposium.1st International symposium on Sustainable Pathways: Green Synthesis for Functional Materials and Eco-Friendly Applications (SMA2024). Walailak University, 28-29 March.	2024	Thailand
6.	**Keynote**	"Biomarker Imprinting on Interdigitated Electrode for Diagnosing Human Blood Clotting Defect". MAHSA International Medical Technology Conference (Mi-MED 2023), Faculty of Medicine, MAHSA University, 28-29 July.	2023	Malaysia
7.	**Keynote**	"A Closer Look at Nanobiosensor Settings towards COVID-19 Digital Monitoring". 5th International Conference on Molecular Diagnostic & Biomarker Discovery (MDBD) in conjunction with 25th National Conference on Medical & Health Science, Universiti Sains Malaysia, Kelantan, 17th & 18th November.	2021	Malaysia
8.	**Plenary**	"Nanotechnology in Healthcare Diagnostics: Bench-top to Handheld", International Conference on Advanced Materials for Catalysis, Energy and Environment, Gurunanak College, Chennai. 21-22 February.	2019	India
9.	**Plenary**	"Current Diagnostics: The Missing Pieces in Nanobiosensors", International Conference on Nanomedicine (ICON-2019), Madurai Kamaraj University, Madurai. 25-26 February.	2019	India
10.	**Plenary**	"Progress of Nanostructures and Plant Biopolymers", Beijing. 10-17 April.	2017	China

11.	**Plenary**	"Aptasensors: Bench to bedside and beyond", AIMST University, 3rd Regional Conference on Biosensors, Biodiagnostics, Biochips and Biotechnology 2016 on Kedah, April.	2016	Malaysia
12.	**Plenary**	"Nanotheranostics-heralding the new multidisciplinary science", International conference in MAGNA on emerging engineering trends (ICMEET-2K12) on Magna Engineering College, Chennai, April.	2012	India
13.	**Keynote**	"Influenza viral detections by waveguide-mode nanobiosensor". 1st AMDI-International Biohealth Science Conference 2010 on Universiti Sains Malaysia, Penang, November-December.	2010	Malaysia
14.	**Plenary**	1st AMDI-International Biohealth Science Conference 2010 on "Influenza viral detections by waveguide-mode nanobiosensor", Universiti Sains Malaysia, Penang, November-December.	2010	Malaysia

Invited */Guest Lectures*

No.	Type	Title of the Talk	Year	Place
15.	**Invited**	"How to write a good Methodologies, Research Activities and Research Output (Science & Technology)", UiTM (MyRA), Arau, 12th September	2024	Malaysia
16.	**Invited**	"How to publish in high-impact journals", Faculty of Medicine, Wayamba University of Sri Lanka, 6th September	2024	Sri Lanka
17.	**Guest Lecture**	"Nanotechnological approaches in biomedical analysis: Bridging the gap from lab to market". Center for global health research, Saveetha medical college & hospital (SIMATS), Chennai, 13th August	2024	India
18.	**Invited**	"Art of writing and publishing an effective research paper", Faculty of Medicine, MAHSA University, 4th July	2024	Malaysia
19.	**Invited**	"Bridging and Strengthening Clinical Research Collaborations Between Malaysia and China", NORXIN, 19th September.	2023	China
20.	**Invited**	"Belt and Road" International academic exchange conference with the theme "Precise treatment – leading the direction of targeted therapy for lung cancer', NORXIN, 1st April	2023	China
21.	**Guest Lecture**	"Completing Research on-time: Planning and Challenges", Open day for Post-graduates, Faculty of Chemical Engineering & Technology, Universiti Malaysia Perlis, 10th May	2023	Malaysia
22.	**Guest Lecture**	"Enhancing skills to write a book", Microbiology textbook workshop, Faculty of Chemical Engineering & Technology, Universiti Malaysia Perlis, 22nd June.	2022	Malaysia
23.	**Invited**	Second phase: "Developing a Vibrant Research Culture" Webinar Workshop by Center for Graduate Studeis, Universiti Malaysia Perlis, 15th & 16th July.	2021	Malaysia
24.	**Invited**	First phase: "Developing a Vibrant Research Culture" Webinar Workshop by Center for Graduate Studies, Universiti Malaysia Perlis, 10th & 11th February	2021	Malaysia
25.	**Invited**	"Essential Elements for a Successful Publication in High Impact Journal". Webinar by Fakulti Teknologi Kejuruteraan Elektronik (FTKEN) dan Advanced Communication Engineering Centre of Excellence (ACE), Universiti Malaysia Perlis, 9th December	2020	Malaysia
26.	**Invited**	"Biomolecules and biosensors being exploited for COVID-19 detection". Webinar by Hindustan College of Arts and Science, Chennai, Tamil Nadu, 18th November.	2020	India
27.	**Invited**	"Strategies on nanobiosensors being adapted for COVID-19 detection". Webinar by Universiti Malaysia Perlis, 25th June.	2020	Malaysia
28.	**Invited**	"2019 Academic Lecture on Clinical Neuroscience", Nanjing, 8-15 August.	2019	China
29.	**Invited**	"Turning your students' FYP into Publication", School of Environmental Engineering, Universiti Malaysia Perlis, Perlis, 19th December.	2018	Malaysia
30.	**Invited**	Workshop on "Publish or Perish"-Academic Research Writing & Publishing, School of Bioprocess Engineering, Universiti Malaysia Perlis, Perlis, February.	2018	Malaysia
31.	**Guest Lecture**	"Aptasensors Rival Immunosensors", Institute of Nano Electronic Engineering, Universiti Malaysia Perlis, Perlis, January.	2018	Malaysia
32.	**Invited**	'Nanotechnology-based biosensors: the start-of-the-art' during International Seminar on "Nanotechnology and Biosensors", School of Bio & Chemical Engineering, Department of Biomedical Engineering, Kalasalingam University, Krishnankoil, India, July.	2017	India
33.	**Invited**	'Gold Nanostructures in biosensing applications' during a conference on "Advanced Materials and its Applications", Department of Physics, The Standard Fireworks Rajaratnam College for women, Madurai Kamaraj University, India, July.	2017	India
34.	**Invited**	"Aptamer (Artificial Antibody) in Medical Diagnosis", School of Medicine, Karabuk University, Karabuk, March.	2017	Turkey
35.	**Invited**	"Potentials of Aptasensor to Substitute Immunosensor", 2nd National Seminar on Sensor 2017, Sensor Malaysia, Langkawi, February.	2017	Malaysia
36.	**Invited**	"Essentials in Micro/Nanobionanosensors: Importance of Graphene materials", in Seminar on "Micro/Nano Devices and Materials Applications in Industries" by Mission Oriented Research (MOR) Nanotechnology from Universiti Teknologi PETRONAS (UTP), Perak, December.	2016	Malaysia
37.	**Invited**	"Essentials in Bionanosensors and Aptasensors", Department of Chemistry, Anna University, Chennai, July.	2016	India
38.	**Guest Lecture**	"Essentials in Bionanosensors", Institute of Nano Electronic Engineering, Universiti Malaysia Perlis, Perlis, April.	2015	Malaysia
39.	**Invited**	"Aptamers – as high affinity and specific ligands for biosensing diverse analytes",	2012	Canada

		Analytical and Environmental Toxicology division, University of Alberta, Edmonton, April.		
40.	**Invited**	"Functional non-coding RNAs", at Advanced Medical and Dental Institute, Universiti Sains Malaysia, Penang, December.	2011	Malaysia
41.	**Invited**	On "Aptamers: an emerging class of molecules in clinical and therapeutic applications", at Advanced Medical and Dental Institute, Universiti Sains Malaysia, Penang, December.	2010	Malaysia
42.	**Invited**	On "Innovative approaches on Lable-free Bionanosensor development" under the Brain Gain program, at Universiti Sains Malaysia, Penang, April-May.	2010	Malaysia
43.	**Invited**	On "Bacterial Protein Expression" at Advanced Medical and Dental Institute, Universiti Sains Malaysia, Penang, December.	2009	Malaysia
44.	**Invited**	On "Oil pollution and biodegradation of fatty substances". Academic College Staff refresher course on "Environmental, Biodiversity and Bioethics", Department of Zoology, University of Madras, Chennai, February	1998	India

Workshop Conducted

No.	Type	Title of the Talk	Year	Place
1.	**Main**	"Designing and Fabrication of Nanobiosensors for Clinical Applications", by Institute of Nano Electronic Engineering, Universiti Malaysia Perlis, 14th May, Bangi Resort, Kuala Lumpur.	2024	Malaysia
2.	**Main**	"Designing and Fabrication of Nanobiosensors for Clinical Applications", Malaysia Nanotechnology Industrial Group, Dilancarkan Secara Rasmi Sempena Program Nano Kebangsaan (NANOKEB) 2023, 12th October, Kuala Lumpur.	2023	Malaysia
3.	**Main**	"Designing and Fabrication of Nanobiosensing Prototype", for the International Conference on Nanotechnology & Materials Research (ICONMAR 2023), Penang, Malaysia, 9th October, Penang.	2023	Malaysia
4.	**Main**	On "Microbiology textbook workshop". Universiti Malaysia Perlis, 22nd June	2022	Malaysia
5.	**Main**	On "Innovative approaches on Lable-free Bionanosensor development" Brain Gain program, Universiti Sains Malaysia, Penang, April-May,	2010	Malaysia
6.	**Main**	On "Bacterial Protein Expression" at Advanced Medical and Dental Institute, Universiti Sains Malaysia, Penang & Johor, December.	2009	Malaysia
7.	**Co-partner**	On "Oil pollution and biodegradation of fatty substances". Academic College Staff refresher course on "Environmental, Biodiversity and Bioethics", Department of Zoology, University of Madras, Chennai, February	1998	India

Organized Conferences/Seminars

- Organizing committee for the International Symposium on Emerging Trend in Semiconductor Technology (MiCSETS), 29th November 2023.
- Co-chair for the International Conference on Nanotechnology & Materials Research (ICONMAR 2023), Penang, Malaysia. October 2023.
- Organizing committee for the 2022 joint international conference on Nanoscience & Nanoengineering (BOND21 2022), Perlis, Malaysia, September 2022.
- International Committee for the International conference in MAGNA on emerging engineering trends (ICMEET-2K12) on Magna Engineering College, Chennai, April.
- International Committee for the 1st AMDI-International Biohealth Science Conference 2010 on Universiti Sains Malaysia, Penang, November-December, 2010.

External/Internal Examiner for Ph.D./M.Sc.

- *University of Madras*
- *Bharathiar University*
- *Government Arts College, Dharmapuri*
- *Madurai Kamaraj University*
- *Periyar University*
- *Gurunanak Collage*
- *AIMST University*
- *Universiti Putra Malaysia*
- *Universiti Sains Malaysia*
- *Universiti Malaysia Perlis*
- *University of Malaya*
- *Universiti Malaysia Sabah*
- *Universiti Technologi Petronas*
- *University of Notthingham*

Editorial/Advisory Board Member

- *Plos One*
- *Oncologie*
- *Nanoscience & Nanotechnology-Asia*
- INNOSC Theranostics and Pharmacological Sciences

- *Journal of the International Society on Aptamers*
- *BioMedical Research International*
- *Journal of Engineering Research and Education*
- *The International Journal of Nanoelectronics and Materials*
- *World Journal of Methodology*
- *Proc. of the IMechE, Part N*: *Journal of Nanomaterials, Nanoengineering, and Nanosystems*
- *Journal of BioHealth Science Bulletin*
- *ABI-International Journal of Modern Science and Engineering*
- *Post-graduate Committee Chair – School of Bioprocess Engineering, Universiti Malaysia Perlis*
- *RNA Society of Japan*
- *IEEE – Senior member (*97404877)
- *Association of Medical Doctors of Asia*

Worldwide Project Evaluator

- NCSTE – National Center of Science and Technology Evaluation. 2024. The REPUBLIC OF KAZAKHSTAN.
- European Science Foundation - Junior and Senior Research Projects of the Research Foundation Flanders (FWO), 2024
- NCSTE – National Center of Science and Technology Evaluation. 2023. The REPUBLIC OF KAZAKHSTAN.
- Uefiscdi – The Ministry of National Education and Scientific Research and its Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI). 2021-22. ROMANIA.
- The Leibniz Association – 2020, Berlin, GERMANY.
- Uefiscdi – The Ministry of National Education and Scientific Research and its Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI). 2020. ROMANIA.
- NCN-National Science Centre. 2019. (Narodowe Centrum Nauki; POLAND).
- NCSTE – National Center of Science and Technology Evaluation. 2019. The REPUBLIC OF KAZAKHSTAN.
- Uefiscdi – The Ministry of National Education and Scientific Research and its Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI). 3rd National Plan for Research, Development and Innovation for the period 2015-2020 (PNCDI III). 2016. ROMANIA.
- Uefiscdi – The Ministry of National Education and Scientific Research and its Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI). 2012. ROMANIA.
- NCSTE – National Center of Science and Technology Evaluation. 2014. The REPUBLIC OF KAZAKHSTAN.
- BARD – The United States – Israel Binational Agricultural Research and Development Fund. 2014. ISRAEL.

Reviewer to the Journals

- ♣ACTA ZOOLOGICA SINICA ♣AFRICAN JOURNAL OF BIOTECHNOLOGY ♣AFRICAN JOURNAL OF MICROBIOLOGY RESEARCH ♣AMERICAN JOURNAL OF ANALYTICAL CHEMISTRY ♣ANALYTICAL & BIOANALYTICAL CHEMISTRY ♣APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY ♣APPLIED BIOLOGICAL RESEARCH ♣APPLIED MICROBIOLOGY ♣APPLIED MICROBIOLOGY AND BIOTECHNOLOGY ♣APPLIED AND ENVIRONMENTAL MICROBIOLOGY ♣APPLIED BIOLOGICAL RESEARCH ♣BASIC METHODS IN PROTEIN PURIFICATION AND ANALYSIS ♣BIOANALYSIS ♣BIOCONJUGATE CHEMISTRY ♣ BIODEGRADATION ♣BIOHEALTH SCIENCE BULLETIN ♣BIOMARKERS IN MEDICINE ♣BIOLOGIA ♣ BIOMED RESEARCH INTERNATIONAL ♣BIOMOLECULAR ENGINEERING ♣BIOPROCESS BIOSYSTEMS ENGINEERING ♣BIOSENSORS ♣BIOSENSORS & BIOELECTRONICS ♣BIOTECHNIQUES ♣BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY ♣CANADIAN JOURNAL OF MICROBIOLOGY ♣CURRENT APPLIED PHYSICS ♣CURRENT BIOTECHNOLOGY ♣ENCYCLOPEDIA OF ANALYTICAL CHEMISTRY ♣ENVIRONMENTAL TECHNOLOGY ♣ENZYME AND MICROBIAL TECHNOLOGY ♣ FOLIA MICROBIOLOGICA ♣FUTURE ONCOLOGY ♣FUTURE MEDICINE ♣INTERDISCIPLINARY SCIENCES: COMPUTATIONAL LIFE SCIENCES ♣INTERNATIONAL JOURNAL OF NANOMEDICINE ♣INTERNATIONAL JOURNAL OF BIOLOGICAL SCIENCES ♣JOURNAL OF BASIC MICROBIOLOGY ♣JOURNAL OF BIOTECHNOLOGY ♣JOURNAL OF CHEMICAL TECHNOLOGY & BIOTECHNOLOGY ♣JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY ♣JOURNAL OF MOLECULAR CATALYSIS B: ENZYMATIC ♣JOURNAL OF BIOSENSORS & BIOELECTRONICS ♣JOURNAL OF POROUS MATERIALS ♣MOLECULAR AND CELLULAR BIOCHEMISTRY ♣MOLECULES ♣OPTICS AND LASERS IN ENGINEERING ♣PROCESS BIOCHEMISTRY ♣JOURNAL OF THROMBOSIS AND HAEMOSTASIS ♣SENSORS AND ACTUATORS:B.CHEMICAL ♣SEPARATION AND PURIFICATION TECHNOLOGY ♣THROMBOSIS RESEARCH ♣WASTE AND BIOMASS VALORIZATION ♣*INTERNATIONAL JOURNAL OF NUMERICAL MODELLING: ELECTRONIC NETWORKS, DEVICES AND FIELDS*.

Participation in Social Events

- USR Program for the year 2023 (Program USR yang pertama) - "INEE's Touch of Love" (“Sentuhan Kasih INEE”)
- *Blood donation camp with Association of Medical Doctors of Asia*
- *Perlis Indian society events*
- *Supporting Orphanage homes*
- *Participated in Mouth Cancer Awareness week, Walkathon, Kuching Waterfront, Kuching, Sarawak.*

Presentations

No.	Year	Title of Presentation	Country
1.	2023	Krishnan, H., **Gopinath, S.C.B**., Adam, T., Fakhri, M.K., Salim, E.T. Patil, N. Molecular-Imprinting Assisted Polydopamine-Aptasensor On Carbon and Gold Nanomaterials Construct	Penang, Malaysia

		for The Haemophilia B Biomarker Detection. International Conference on Nanotechnology & Materials Research (ICONMAR 2023), Penang, Malaysia, 9th October, Penang.	
2.	2023	Adam, H., **Gopinath, S.C.B**., Adam, T., Fakhri, M.A., Salim, E.T., Hashim, U. Comparative Analysis on Aluminium Interdigitated Electrode Surface: Influence of Ionic Strength and Electrolytes Changes. International Conference on Nanotechnology & Materials Research (ICONMAR 2023), Penang, Malaysia, 9th October, Penang.	Penang, Malaysia
3.	2022	Adam, H., **Gopinath, S.C.B**., Md Arshad, M.K., Hashim, U., Adam, T. Magnetic Induction Tomography for Brain Tissue Imaging Based on Conductivity Distribution for Parkinson's Disease Diagnosis. 2022 joint international conference on Nanoscience & Nanoengineering (BOND21 2022)	Perlis, Malaysia
4.	2021	Adam, H., **Gopinath, S.C.B**., Uda, M.N.A., Hashim, U. Integration of aluminium interdigitated electrodes with zinc oxide as nanocomposite for selectively detect alpha-synuclein for Parkinson's disease diagnosis. 3rd International Conference on Green Engineering & Technology 2021 (IConGETech 2021).	Perlis, Malaysia
5.	2021	Adam, H., Gopinath**, S.C.B**., Uda, M.N.A., Hashim, U. Integration and Characterization of Aluminium-Sputtered Zinc Oxide Nanocomposite: a Potential Hybrid Nanomaterial. 3rd International Conference on Green Engineering & Technology 2021 (IConGETech 2021).	Perlis, Malaysia
6.	2018	Teh, S.Y., **Gopinath, S.C.B.** Md Arshad, M.K., Lakshmipriya, T., Hashim, U. Conserved and Non-served Regions in Herpes Simplex Viral Glycoproteins for Probe Designing. Joint International Conference on Nanoelectronics Engineering and Green Materials.27-28 July.	Bandung, Indonesia
7.	2018	Renee, A. X. Y., **Gopinath, S.C.B.** Md Arshad, M.K., Koh, Y.J., Lakshmipriya, T., Hashim, U. Analysis of Conserved and Non-served Regions in Neuraminidase of Influenza virus for Probe Designing. Joint International Conference on Nanoelectronics Engineering and Green Materials.27-28 July.	Bandung, Indonesia
8.	2018	Kavithannjali, K., **Gopinath, S.C.B.**, Md Arshad, M.K., Renee, A.X.Y., Lakshmipriya, L., Voon, C.H., Ayub, R.M., Al-Douri, Y., Adam, T., Hashim, U. Identification of Probes for Biosensing Dengue Viral Serotypes. Joint International Conference on Nanoelectronics Engineering and Green Materials.27-28 July.	Bandung, Indonesia
9.	2018	Ong, D.V., **Gopinath, S.C.B.,** Md Arshad, M.K., Murthe, S.C., Fathil, M.F.M., Lakshmipriya, T., Parmin, N.A., Ayub, R.M., Voon, C.H., Adam, T., Hashim, U. Identification of Conserved and Non-served Regions among 16S rRNAs for Bacterial Probe Designing. Joint International Conference on Nanoelectronics Engineering and Green Materials. 27-28 July.	Bandung, Indonesia
10.	2017	**Gopinath, S.C.B.**, Ramanathan, S., Suk, K.H., Foo, M.E., Anbu, P., Uda, M.N.A. Engineered nanostructures to carry the biological ligands. Malaysian Technical Universities Conference on Engineering and Technology, Penang, Malaysia 6-7 December.	Penang, Malaysia
11.	2017	**Gopinath, S.C.B.** Gold Nanostructures in biosensing applications. Conference on "Advanced Materials and its Applications", Department of Physics, The Standard Fireworks Rajaratnam College for women, Madurai Kamaraj University, India, 6-7 July.	Tamil Nadu, India
12.	2016	Ten, S.T., Hashim, U., **Gopinath, S.C.B**., Liu, W.W., Foo, K.L., Sam, S.T., Rahman, S.F.A., Voon, C.H., Nordin, A.N. Highly sensitive Escherichia coli shear horizontal surface acoustic wave biosensor with silicon dioxide nanostructures. Biosensors 2016. 25-27 May.	Gothenburg, Sweden
13.	2015	Balakrishnan, S.R., Hashim, U., **Gopinath, S.C.B**., Hari Ram, R., Veeradasan, P., Haarindraprasad, R. Label-free Early Immunosensing of Human Chorionic Gonadotropin on Epoxy and Silane Functionalized Polysilicon Nanogap Lab-on-chip. 4th International Conference on Bio-sensing Technology, 10-13 May.	Lisbon, Portugal
14.	2015	Awazu, K., Fujimaki, M., **Gopinath, S.C.B**., Wang, X. Four channels palmtop sensor with PC, battery and Bluetooth based on waveguide mode for detection of influenza viruses**.** 4th International Conference on Bio-Sensing Technology. May 10-13.	Lisbon, Portugal
15.	2014	Bukari, B.A., Citartan, M., **Gopinath, S.C.B.,** Ahmed, S.A., Lipin, L., Ang, K.C., Tang, T-H. Development of an aptameric-real time PCR-based assay of REPORA-6 RNA aptamer for the detection of EPO. 1st Post-graduate colloquium on Translational Research, AMDI, Universiti Sains Malaysia. September 9-10 (*Received the Best Paper Award*).	Penang, Malaysia
16.	2014	Goh, C.S., Citartan, M., **Gopinath, S.C.B.,** Lipin, L., Ang, K.C., Ahmed, S.A., Tang, T-H. Preparation of starch nanoparticles from maize for drug delivery. 1st post-graduate colloquium on Translational Research, AMDI, Universiti Sains Malaysia. September 9-10.	Penang, Malaysia
17.	2014	Karbul, H.A., Citartan, M., **Gopinath, S.C.B.,** Lipin, L., Ang, K.C. Ahmed, S.A., Tang, T-H. Isolation and identification of lipase-producing bacteria from oil spillage. 1st post-graduate colloquium on Translational Research, AMDI, Universiti Sains Malaysia, September 9-10.	Penang, Malaysia
18.	2014	Fujimaki, M., Nomura, K., **Gopinath**, **S.C.B.**, Lakshmipriya, T., Fukuda, N., Wang, X.. Molecular detection utilizing surface-plasmon-assisted fluorescence in a V-shaped microfluidic channel. PITTCON 2014, 2-4 March.	Chicago, USA
19.	2013	Citartan, M., **Gopinath, S.C.B**., Tang, T. REPORA-6 RNA aptamer against human Erythropoietin (EPO), a potential aptanostic and therapeutic agent. 1st International *Conference* on Molecular Medicine. October 12-13.	Penang, Malaysia
20.	2013	Lakshmipriya, T., Fujimaki, M., **Gopinath, S.C.B**., Awazu, K., Horiguchi, Y., Nagasaki, Y. Detection of FIX by Waveguide mode sensor-High performance by RNA-aptamer/gold nanoparticle-PEG hybridized sensing. 2nd International conference on Biomaterials science in Tsukuba (ICBS 2013), 19-22 March.	Tsukuba, Japan
21.	2013	Lakshmipriya, T., Fujimaki, M., **Gopinath, S.C.B**., Awazu, K., Horiguchi, Y., Nagasaki, Y. Detection of influenza viruses by Fluorescence-based SPR - High-performance sensing by RNA-aptamers/PEG hybridized sensor. MANA International Symposium 2013, Jointly with ICYS, February 27- 1 March.	Tsukuba, Japan
22.	2013	Awazu, K., Fujimaki, M., **Gopinath, S.C.B**. Distinguishment of subtypes of influenza viruses with evanescent waveguide-mode sensors. The 17th International Conference on solid-state sensors, Actuators and Microsystems (Transducers`2013). June 16-20.	Barcelona, Spain

23.	2012	Lakshmipriya, T., Fujimaki, M., **Gopinath, S.C.B**., Awazu, K., Horiguchi, Y., Nagasaki, Y. Protein sensing on aptamer/PEG hybrid surface by monolithic waveguide sensing plate. International Workshop on Soft Interface Sciences for Young Scientists 2012 (SISYS 2012), November 21-22.	Tsukuba, Japan
24.	2012	Lakshmipriya, T., Fujimaki, M., **Gopinath, S.C.B**., Horiguchi, Y., Nagasaki, Y. Detection of influenza viruses by SPFS-High performance sensing by RNA-aptamers/PEG hybridized sensor. International Union of Materials research societies-International conference on Electronic Materials 2012 (IUMRS-ICEM 2012), September 23-28.	Yokohama, Japan
25.	2012	Kumar P.K.R., Suenaga, E., **Gopinath, S.C.B**., Nagumo, O., Tominaga, J. Aptamer-based biosensing platforms for detecting biomolecular interactions. 15th European congress on Biotechnology, 23-25 September.	Istanbul, Turkey
26.	2012	**Gopinath, S.C.B**., Suenaga, E., Kumar P.K.R., Nagumo, O., Tominaga, J. BioDVD platform for Biorecognition. International Conference on Biological, Biomedical and Pharmaceutical Sciences (ICCEPS'2012). July 28-29 (*Received the Best Paper Award*).	Pattaya, Thailand
27.	2012	Suenaga, E., **Gopinath, S.C.B**., Nagumo, O., Tominaga, J., Kumar P.K.R. Aptamer-based biosensing platforms for influenza surveillance. NanoBio Europe. 18-20 June.	Lombardy, Italy
28.	2012	Lakshmipriya, T., Fujimaki, M., **Gopinath, S.C.B.**, Horiguchi, Y., Nagasaki, Y. Evaluation of anti-influenza aptamer generation by surface Plasmon Fluorescence Spectroscopy. Softinterface International Mini-symposium on Biointerface-interface between Bio and Materials (SIMS2012) March 17–19.	Tsukuba, Japan
29.	2012	**Gopinath, S.C.B.,** Awazu, K., Fujimaki, M. Analyses of Biomolecular Interactions by Waveguide-Mode Sensors. PITTCON 2012, Orlando, Florida, USA. March 11-15.	Florida, USA
30.	2012	Lakshmipriya, T., Fujimaki, M., **Gopinath, S.C.B.**, Horiguchi, Y., Nagasaki, Y. Poly(ethylene glycol)-b-Poly(acrylic acid) (PEG-b-PAAc) mediated signal enhancement for aptamer-protein interactions by Surface Plasmon Fluorescence Spectroscopy. MANA International Symposium 2012 Jointly with ICYS. Tsukuba, Japan. February 29-March 2.	Tsukuba, Japan
31.	2011	Lakshmipriya, T., Fujimaki, M., **Gopinath, S.C.B.**, Horiguchi, Y., Nagasaki, Y. Optimization of fluorescence labeling and label-free aptasensors for the detection of influenza virus. The 21st MRS-Japan Academic Symposium. December 19-21.	Yokohama, Japan
32.	2011	Suenaga, E., **Gopinath, S.C.B**., Nagumo, O. and Tominaga, J., Kumar P.K.R. Comparison of natural receptor (glycans) and aptamers binding ability and specificity to the hemagglutinins-derived from newly emerging influenza viruses. 12-14 December.	Tokyo, Japan
33.	2011	**Gopinath, S.C.B**., Suenaga, E., Kumar R.K. P., Nagumo, O., Tominaga, J. Tracks Adjustment on the BioDVD Platform for Data Averaging. 4th International Symposium on Applied Sciences in Biomedical and Communication Technologies, Isabel 2011. October 26-29.	Barcelona, Spain
34.	2011	Citartan, M., **Gopinath, S.C.B**., Tominaga, J., Tan, S., Tang, T. Erythropoietin (EPO) detection on gold coated polycarbonate. 4th Regional conference on Molecular Medicine 2011. 9-11 October.	Penang, Malaysia
35.	2011	**Gopinath, S.C.B.,** Suenaga, E., Kumar P.K.R., Tominaga, J. Surface functionalization for the efficient binding of biomolecules on BioDVD. The 14th Asian Chemical Congress 2011. 5-8 September.	Bangkok, Thailand
36.	2011	Suenaga, E., **Gopinath, S.C.B.,** Kumar, P.K.R. Higher specificity and affinity RNA aptamers against the newly emerging influenza viruses. Sixteenth annual Meeting of the RNA Society, RNA 2011. 14-18 June.	Kyoto, Japan
37.	2011	Tominaga, J., **Gopinath, S.C.B.**, Suenaga, E., Kumar, P.K.R. High-speed molecular detection and analysis using DVD optical disc technology. SPIE/OPA European Conferences on Biomedical Optics. 22 - 26 May.	Munich, Germany
38.	2011	Kumar, P.K.R., **Gopinath, S.C.B.**, Suenaga, S., Mizuno, H., Tominaga, J. Bio-sensing using optical system of digital versatile disk. Fifth International Conference on Advanced Materials and Nanotechnology. February 7-11.	Wellington, New Zealand
39.	2010	Citartan, M., **Gopinath, S.C.B**., Tan, S. Hoe, C., Rajan, S., Tang, T. Optimization of asymmetric PCR for efficient production of single-stranded DNA in generating DNA aptamer by systematic evolution of ligands by exponential enrichment (SELEX). 1st AMDI-International Biohealth Science Conference 2010. 29th November-1st December.	Penang, Malaysia
40.	2010	Suenaga, E., **Gopinath, S.C.B.** Tominaga, J., Kumar, P.K.R. Biomolecular interactions analysis using anti-influenza aptamer on Digital Versatile Disk. BMB 2010. The 33rd Annual Meeting of the Molecular Biology Society of Japan. Kobe, Japan. 7-10 December.	Kobe, Japan
41.	2010	Citartan, M., **Gopinath, S.C.B**., Tan, S., Tang, T. In vitro selection of a functional aptamer against EPO (Erythropoietin) by systematic evolution of ligands by exponential enrichment (SELEX). 1st AMDI-International Biohealth Science Conference 2010. 29th November-1st December.	Penang, Malaysia
42.	2010	**Gopinath, S.C.B.,** Kumar, P.K.R., Nagumo, O., Tominaga, J. Optical-based BioDVD sensor for nanobiotechnological applications. NanoBioTech-Montreux. 15-17 November.	Lausanne, Switzerland
43.	2010	Awazu, K., **Gopinath, S.C.B.,** Fujimaki, M. Antibody-mediated influenza viral detection by waveguide-mode sensor. European Optical Society Annual Meeting 2010. 26-29 October.	Paris, France
44.	2010	Kumar, P.K.R., **Gopinath, S.C.B.,** Tominaga, J. Analyses of various biomolecular interactions using spinning-multilayered disk biosensor. European Science Foundation-Universitat De Barcelona. Conference in Biomedicine on Nanomedicine: Reality now and soon. 23-28 October (*Received the Best Paper Award*).	Barcelona, Spain
45.	2010	Fujimaki, M., **Gopinath, S.C.B**., Awazu, K. Detection of influenza virus using Evanescent fields of waveguide modes. FACSS 2010, Raleigh. 17-21 October.	N.Carolina, USA
46.	2010	**Gopinath, S.C.B**., Kumar, P.K.R., Tominaga, J. A BioDVD media with multilayered structure is suitable for analyzing biomolecular interactions. IEEENano 2010. 10th International Conference on Nanotechnology. 17-20 August.	Seoul, South Korea
47.	2010	Kumar, P.K.R., **Gopinath, S.C.B.,** Tominaga, J. BioDVD platform: Label-free sensor for	Boston,

		monitoring various biomolecular interactions. Institute of Biological Engineering 2010 Annual Conference. 4-6 March.	USA
48.	2010	**Gopinath, S.C.B.,** Kumar, P.K.R., Tominaga, J. BioDVD: an Interferometric-based biosensor. International Conference on Nanoscience and Nanotechnology. 22-26 February.	Sydney, Australia.
49.	2010	Kumar, P.K.R., **Gopinath, S.C.B.,** Mizuno, H., Tominaga, J. A BioDVD platform for monitoring various biomolecular interactions and its application in molecular diagnosis. International Conference on Nanoscience and Nanotechnology, 22-26 February.	Sydney, Australia
50.	2009	**Gopinath, S.C.B**., Awazu, K., Fujimaki, M., Tominaga, J., Gupta, K.C., Kumar, P.K.R. Monitoring biological interactions using perforated evanescent-field-coupled waveguide-mode nanobiosensors. The Sixth International Symposium on Nucleic Acids Chemistry, 27th September- 1st October.	Gifu, Japan.
51.	2009	Fujimaki, M., **Gopinath, S.C.B.,** Wang, X., Awazu, K., Nomura, K., Sato, K., Kato, K., Ohki, Y. High sensitivity detection of coloured molecules using waveguide modes. The 70th Autumn Meeting. The Japan Society of Applied Physics. 8-11 September.	Toyama, Japan
52.	2009	Tominaga, J., **Gopinath, S.C.B**., Kumar, P.K.R. BioDVD: A new Biosensor using DVD optical technology. ChinaNanao 2009, International Conference on Nanoscience and Technology, 1-3 September.	Beijing, China
53.	2009	**Gopinath, S.C.B.,** Kumar, P.K.R., Awazu, K., Tominaga, J. Multilayered BioDVD structures for bio-molecular interactions at crystalline and amorphous states. Third International conference on advances and trends in engineering materials and their applications. AES-ATEMA'2009, 6-10 July.	Montreal, Canada.
54.	2009	**Gopinath, S.C.B.,** Kumar, P.K.R., Awazu, K., Tominaga, J. Optical spinning multilayered BioDVD sensor. Nanobio Europe 2009, 16-18 June.	Grenoble, France.
55.	2008	**Gopinath, S.C.B.,** Kumar, P.K.R., Awazu, K., Tominaga, J. Multilayered DVD structures to detect the biomolecular interactions. International Conference on Fascinating advancement in Mechanical Engineering, 11-13 December.	Virudhunagar, India,
56.	2008	Mashima, T., Kudo, M., Takada, Y., Matsugami, A., **Gopinath, S.C.B.,** Kumar, P.K.R., Katahira, M. Interactions between antitumor drugs and vault RNA. Nucleic Acids Symposium. 8-12 September.	Kyoto, Japan
57.	2008	**Gopinath, S.C.B.,** Kumar, P.K.R., Awazu, K., Tominaga, J. Analysis of Biomolecular interactions on Bio-DVD. The 13th Annual Meeting on the RNA society. 28th July – 3rd August.	Berlin, Germany.
58.	2008	**Gopinath, S.C.B.,** Kumar, P.K.R., Awazu, K., Tominaga, J. Higher sensitivity for the analysis of bio-entities with changes in thicknesses of multilayered BioDVD structure. The International symposium on ISOM/ODS. 13-17 July.	Hawaii, USA.
59.	2008	**Gopinath, S.C.B.,** Kumar, P.K.R., Awazu, K., Tominaga, J. Detection of Biomolecules on Bio-DVD surface. The 2nd International Meeting on Development in Materials, Processes and Application of Nanotechnology. 6-8 January.	Cambridge, UK
60.	2007	**Gopinath, S.C.B**., Arai, A., Mizuno, H., Kumar, P.K.R., Awazu, K., Tominaga, J. Developing a platform for detecting Biomolecules. International Symposium on Optical Memory (ISOM'07). 21-25 October (*Received the Excellent Academic award).*	Singapore
61.	2007	Kumar, P.K.R., **Gopinath, S.C.B.,** Mizuno, H., Arai, A., Awazu, K., Tominaga, J. Development of a BioDVD platform for monitoring biomolecular interactions. Keystone Symposium on 'Nanotechnology in Biomedicine'. Tahoe City, 11-16 February.	California, USA
62.	2006	Balasundaresan, D., Misono, T., **Gopinath, S.C.B.,** Mizuno, H., Kumar, P.K.R. Purification and crystallization of HutP protein to regulate hut operon of *Bacillus cereus*. Asian Crystallographic Association Meeting. 20-23 November.	Tsukuba, Japan.
63.	2006	Arai, T., **Gopinath, S.C.B.,** Mizuno, H., Kumar, P.K.R., Rockstuhl, C., Awazu, K., Tominaga, J. Toward a biological diagnosis system based on DVD technology, ISOM'06. 15-19 October.	Kagawa, Japan.
64.	2006	Arai, T., Awazu, K., Tominaga, J., **Gopinath, S.C.B.,** Mizuno, H., Kumar, P.K.R. 2006. An interference-based biosensing method with a phase-change layer. 9th International Conference on Near-field Optics, Nanophotonics and Related Techniques. 10-15 September.	Lausanne, Switzerland
65.	2006	**Gopinath, S.C.B**., Kumar, P.K.R. Functional analysis of vault-associated non-coding RNAs. Workshop on Functional molecules. August.	Tsukuba, Japan.
66.	2006	**Gopinath, S.C.B.** Misono, T., Balasundaresan, D., Kumar, P.K.R. Studies on RNA-protein interactions to regulate hut operon of *Bacillus subtilis* and *B. cereus*. Molecular Genetics of Bacteria and Phages, Cold Spring Harbor Laboratory, 22-26 August.	New York, USA
67.	2005	**Gopinath, S.C.B.,** Kawasaki, K., Kumar, P.K.R. Selection of RNA-aptamer against human influenza B virus. 20-22 September.	Fukuoka, Japan
68.	2005	**Gopinath, S.C.B.,** Matsugami, A., Katahira, K., Kumar, P.K.R. Human vault non-coding RNAs bind mitoxantrone: A possible role in cancer cell drug resistance. The RNA Society of Japan. 9-11 August.	Kirosaki, Japan.
69.	2003	**Gopinath, S.C.B.,** Kawasaki, K., Nishikawa, S., Kumar, P.K.R. Human Influenza viruses typing by RNA aptamers. 24-27 November.	Kyoto, Japan.
70.	2002	Inoue, S, Poongodi, G.L., Suresh, N., **Gopinath, S.C.B.** Chang, T., Inoue, Y. Polysialylation on human neuroblastoma and rat pheochromocytoma cells as studied by chemical and biochemical methods. XXIst International Carbohydrate Symposium, July.	Cairns, Australia,
71.	2001	Inoue, S, Lin, S.L., Poongodi, G.L., **Gopinath, S.C.B.**, Inoue, Y. An ultrasensitive chemical method for polysialic acid analysis. ***GLYCO XVI***, XVI International Symposium on Glycoconjugates. 19-24 August.	Hague, The Netherlands
72.	2000	**Gopinath, S.C.B**., Kavitha, N.S., Hilda, A., Anbu, P**.** Studies on the crystallization of purified lipase from the fungus *Cunninghamella verticillata*. 41st Annual conference Association of Microbiologists of India, Birla Institute of Scientific Research. November 25 – 27.	Jaipur, India
73.	1998	**Gopinath, S.C.B.**, Hilda. A. Interesterification of dietary oils. Indo-US workshop on Biotechnology for clean environment. Bangalore University, August.	Bangalore, India
74.	1998	**Gopinath, S.C.B.** Oil pollution and biodegradation of fatty substances. The lecture has given	Chennai,

		in Academic College Staff training course on "Environmental, Biodiversity and Bioethics", Department of Zoology, University of Madras, February.	India
75.	1998	**Gopinath, S.C.B**., Hilda, A. Health care system in public places against fungal pathogens. International workshop cum seminar on ethics in Science and Medicine. VMKV Medical College, January **(***Received the Best Paper Award***)**.	Salem, India
76.	1998	"Workshop on Patent awareness". Meenakshi College for Women. Chennai. January.	Chennai, India
77.	1997	Hilda, A., **Gopinath, S.C.B.**, Ramesh, V.M. Use of indigenous medicinal plants in health care system. National seminar on Tribal societies and sustainable development, Department of Anthropology, University of Madras and Tribal Research Centre.	Ooty, India
78.	1997	Latha, K., Hilda, A., **Gopinath, S.C.B.,** Kavitha, N.S. Extracellular proteolytic enzyme of *Chrysosporium anamorph of Arthroderma cuniculi* and its possible role in keratin degradation. National seminar on recent advances in Plant Biotechnology, Research Department of Botany, V.H.N.S.N. College.	Virudhunagar, India
79.	1997	Ramesh, V.M., **Gopinath, S.C.B**., Hilda, A. Micromorphological and structural changes during biodegradation of human hair. National seminar on recent advances in Plant Biotechnology, Research Department of Botany, V.H.N.S.N. College.	Virudhunagar, India
80.	1997	Latha, K., Hilda, A. **Gopinath, S.C.B.**, Kavitha, N.S. Environmental risk management of industrial colorants. Workshop cum Seminar on Bioethics, Department of Zoology, University of Madras.	Chennai, India
81.	1997	Kavitha, N.S., Hilda, A., **Gopinath, S.C.B.**, Latha, K. Hydrolysis of oils and marine environment ethics. Workshop cum Seminar on Bioethics, Department of Zoology, University of Madras.	Chennai, India
82.	1997	Kavitha, N.S., Hilda, A., **Gopinath, S.C.B.**, Latha, K. Eco-ethical technology using extracellular enzymes of *Chrysosporium* species. Workshop cum Seminar on Bioethics, Department of Zoology, University of Madras.	Chennai, India
83.	1997	**Gopinath, S.C.B.**, Hilda, A., N.S. Kavitha, Latha, K. Health ethics in School environment-towards improved accounting for the human life. Workshop cum Seminar on Bioethics, Department of Zoology, University of Madras.	Chennai, India
84.	1996	Latha, K., Hilda, A., **Gopinath, S.C.B.**, Kavitha, N.S. Hydrolysis of oil by *Acremonium alternata*. 37th Annual conference of the Association of Microbiologists of India, Indian Institute of Technology.	Chennai, India
85.	1996	Kavitha, N.S., Hilda, A., **Gopinath, S.C.B**., Latha, K. Enzyme activity in a few *Chrysosporium* species. 37th Annual conference of the Association of Microbiologists of India, Indian Institute of Technology.	Chennai, India
86.	1996	**Gopinath, S.C.B.**, Hilda. A., Latha, K., Kavitha, N.S. Decolourization of textile effluents by fungi. 37th Annual conference of the Association of Microbiologists of India, Indian Institute of Technology.	Chennai, India
87.	1995	**Gopinath, S.C.B**., Hilda, A., Ramesh, V.M. Biodegradation of fatty substances by oil seed colonizing fungi. 18th Indian Botanical conference held at the University of Jammu.	Jammu, India
88.	1995	Hilda, A., **Gopinath, S.C.B.**, Ramesh, V.M. Biodegradation of Oils and related substances in the coastal Environment. National Seminar on Ecorestoration & Sustainable Development, Department of Environmental Sciences, Andhra University.	Visakhapatnam, India
89.	1995	**Gopinath, S.C.B.,** Hilda, A., Ramesh, V.M. Use of Solid media for the detection of lipase activity in fungi. National Seminar on Microorganisms in Sustainable Agriculture, Centre for Research and P.G. Department of Botany, Thiagarajar College. 26-27 March.	Madurai, India

Referees

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Countries Visited for Academic & Research Collaborations

UNITED STATES OF AMERICA (*New York, Florida & Hawaii)*, CANADA, UNITED KINGDOM, AUSTRALIA, GERMANY, FRANCE, BELGIUM, SWITZERLAND, SPAIN, THE NETHERLANDS, ITALY, TURKEY, JAPAN, SINGAPORE, CHINA, TAIWAN, SOUTH KOREA, INDIA, MALAYSIA & THAILAND.

Potential International Collaborators

No.	Country	Name and Affiliation	Field of Interest
1.	Malaysia	Prof. Ir. Dr. **Mohd Khairuddin Md Arshad,** Director, Center for Graduate Studies, Universiti Malaysia Perlis.	Nanobiosensor
2.	Malaysia	A/Prof. Dr. **Mohd Najib Mohd Yasin,** Faculty Electronic Engineering Technology, Universiti Malaysia Perlis.	Communication Engineering
3.	Malaysia	A/Prof. Dr. **Mohd Ibrahim Shapiai** & **Zool Hilmi Ismail,** Deputy Dean, Centre	Artificial intelligence

		for Artificial Intelligence and Robotics, Universiti Technologi Malaysia.	
4.	Malaysia	Drs. **Mohamed Shuaib Mohamed Saheed** & **Veeradasan Perumal,** Universiti Technologi PETRONAS, Malaysia	Nanosensors
5.	Malaysia	A/Prof. Dr. **Yeng Chen**, Associate Professor, Department of Oral Biology & Biomedical Sciences, University of Malaya.	Proteomic Analyses
6.	Malaysia	Prof. Dr. **Sreeramanan Subramaniam**, School of Biological sciences, Universiti Sains Malaysia,	Plant Science
7.	Malaysia	Prof. Dr. **Azrul Azlan Hamzah**, Institute of Microengineering and Nanoelectronics (IMEN), Universiti Kebangsaan Malaysia	Microelectronics
8.	Malaysia	A/Prof. Ir. Dr. **Malarvili Balakrishnan**, School of Biomedical and Health Science Engineering, Universiti Teknologi Malaysia	Biomedical Sciences
9.	Malaysia	Dr. **Yuan Seng Wu**, Senior Lecturer, Centre for Virus and Vaccine Research, School of Medical and Life Sciences, Sunway University.	Cancer Biology
10.	Malaysia	A/Prof. Dr. **Suresh V. Chinni**, Department of Biochemistry, MASHA University.	RNA & Transcriptomics
11.	Malaysia	Dr. **Santheraleka Ramanathan**, Faculty of Engineering, UCSI University	Biosensor
12.	Japan	Prof. **Junji Tominaga**, Director, Nanoelectronics Research, Institute, National Institute of Advanced Industrial Science and Technology.	Development of Nanomaterials
13.	Japan	Dr. **Penmetcha K.R. Kumar,** Biomedical Research Institute, National Institute of Advanced Industrial Science and Technology.	Generation of aptamers
14.	Japan	Prof. **Hiroshi Mizuno,** Biomedical Research Institute, National Institute of Advanced Industrial Science and Technology.	Structural studies on biomolecules
15.	Japan	Prof. **Koichi Awazu**, Director, Photonics Research Institute, National Institute of Advanced Industrial Science and Technology.	Developing waveguide sensors
16.	Japan	Dr. **Makoto Fujimaki**, Photonics Research Institute, National Institute of Advanced Industrial Science and Technology.	Developing waveguide sensors
17.	Japan	Prof. **Kazunori Shimizu**, Nihon University School of Medicine, Tokyo.	Influenza viruses
18.	Japan	Dr. **Thirumanenseri Kumarevel**, Scientist, RIKEN, Osaka.	Crystallography
19.	Japan	Dr. **Osamu Nagumo**, Design Tech. Co. Ltd., Tokyo.	Hardware-Electronics
20.	USA	Dr. **Thiruselvam Viswanathan**, Department of Biochemistry and Structural Biology, Florida International University	Crystallography
21.	USA	Dr. **Satyaraj Ebenezer**, NESTLE, St. Louis Petcare Basic Research.	Aptamer generation
22.	Korea	Dr. **Periasamy Anbu**, Biological Engineering, Inha University, Incheon.	Enzymology
23.	Saudi Arabia	Prof. Dr. **Mazin Zamzami**, King Abdulaziz University Prof. Dr. **Abubakr M. Idris**, King Khalid University	Biosensor
24.	India	Prof. Dr. **Kannaiyan Pandian**, Organic Chemistry, University of Madras, Chennai.	Nanotechnology
25.	India	A/Prof. Dr. **Pachaiappan Raman**, SRM Institute of Science & Technology, Kancheepuram	Nanomedicine
26.	India	Dr. **Mariappan Rajan**, Madurai Kamaraj University, Madurai	Chemistry
27.	Ethiopia	Prof. **Thanganadar Ashokkumar** – Haramaya University	Material Science
28.	China	Dr. **Tao Xin** Neurosurgeon Shandang University	Neurosurgeon
29.	China	Prof. **Xian Huang**, Tianjin University	Biomedical Engineering
30.	CHINA	Prof. **Guo Gang**, Xi'an Jiaotong University	Medicine
31.	Singapore	A/Prof. Dr. **Robert E. Simpson**, Singapore University of Technology & Design	Material Science
32.	Thailand	Prof. Dr. **Teerapol Srichana**, Prince of Songkla University	Analytical Chemistry
33.	UK	Dr. **Despina Moschou**, Universtiy of Bath	Biosensor
34.	France	Prof. **Frederic Sarry & Stefan MC Murtry**, Université de Lorraine-CNRS, Vandoeuvre les Nancy	Biosensor & Nanotechnology
35.	Iraq	Prof. Dr. **Makram A. Fakhri**, *Director, The Optoelectronics Eng. Branch, University of Technology Baghdad*	Optoelectronics
36.	Indonesia	A/Prof. Dr. **Irzaman Husein**, Department of Physics, IPB University	Physics
37.	Bangladesh	Prof. **Md. Fokhray Hossain**, Department of Computer Science and Information Technology, Daffodil International University	Computer Science
38.	Chile	Dr. **Arun Thirumurugan**, Sede Vallenar, Universidad de Atacam	Biosensors
39.	Taiwan	Dr. **Mani Govindasamy**, Ming Chi University of Technology	Biomedical Engineering
40.	Sri Lanka	**Dr. Asanka Rajapaksha,** Wayamba University of Sri Lanka	Nanotechnology
41.	Azerbaijan	**Ulkar Imanzade,** Western Caspian University	Science and Innovations