



**A.V.V.M. SRI PUSHPAM COLLEGE  
(AUTONOMOUS),  
POONDI - 613503, THANJAVUR - DT.  
STAFF PROFILE as on 01.04.2025**



1. Name of the Staff : **Dr. S. GANESAN**
2. Designation : **ASSISTANT PROFESSOR (SG)**
3. Academic Qualification : **M.Sc., M.Phil., Ph.D.,**

Course	UG	PG	M.PHIL.	PhD.
Year	2004	2006	2007	2013
College & University	The American College, (Autonomous), Madurai Madurai Kamaraj University	Thiagarajar College, (Autonomous), Madurai Madurai Kamaraj University	The Presidency College, (Autonomous), Chennai University of Madras	Bharathiar University, Coimbatore

4. Date of Birth & Age : 30.04.1983 - 41 years

5. Date of Appointment : Self - Financed : 

D	D	M	M	Y	Y	Y	Y

FIP : 

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Aided : 

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6. Total Service : 11.4

7. Teaching Experience in completed years : UG 

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 PG 

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 M.Phil. 

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8. Residential Address : No 18 North part, SAS Nagar, RSGC Post, Thanjavur - 613005

Mobile Number : 9942282030 (Email id: [ganesanmolbio@gmail.com](mailto:ganesanmolbio@gmail.com))

9. No. of Orientation / Refresher Courses and Training Programmes attended : 1, 3, 1 (Annexure - I)

10. Whether FDP availed : Nil

11. No. of Seminars attended : 30 (Annexure - II)
12. No. of Papers Presented : 82 (Annexure - III)
13. No. of Papers Published : 68 (Annexure - IV)
14. No. of Books Published : 5 (Annexure - V)
15. No. of Guest Lectures delivered in other institutions : 66 (Annexure - VI)

16. No. of Research Projects undertaken : Minor 1 Major Nil (Specify) \_\_\_\_\_ (Annexure - VII)

17. No. of Seminars organised : 3 (Annexure - VIII)

18. No. of M.Phil. Scholars Guided : Completed 4 Ongoing 1 (Annexure - IX)

19. No. of PhD Scholars Guided : Awarded 7 Ongoing 2 (Annexure - X)

20. Participation in Academic Research Bodies in other institutions : 17 (Annexure - XI)

21. Service rendered in academic / Extra

Curricular/ Extension activities within the College other than teaching : 8 (Annexure - XII)

22. Service rendered in Professional : 10 (Annexure - XIII)

bodies outside the College :  
23. Honours/ Awards received : 13 (Annexure - XIV)

*Signature of the Staff*

**Note:** Evidence should be produced at the time of verification of the Profile.



## Curriculum Vitae

*Dr. Ganesan Sivamani, M.Sc., M.Phil., Ph.D.,*  
*+9199422 82030 ganesanmolbio@gmail.com*

Fathers Name: Sivamani R  
Date of Birth: 30.04.1983  
Nationality: Indian  
Marital Status: Married  
Languages Known: Tamil, English

### ***Address for communication:***

#### **Official Address:**

Assistant Professor (SG)  
Dept. of Zoology and Biotechnology  
A.V.V.M. Sri Pushpam College (Autonomous)  
Poondi – 613 503 Thanjavur Dt.,

#### **Personal Address:**

No, 18, SAS Nagar  
Pookollai, Madhakottai Road,  
Rajah Govt. Serfoji College Post  
Thanjavur – 613 005

### **Job Profile:**

<b>Designation</b>	<b>Department</b>	<b>Institution</b>	<b>Reporting to</b>	<b>Duration</b>
Assistant Professor (Selection Grade)	Zoology & Biotechnology	A.V.V.M. Sri Pushpam College (Autonomous), Poondi	Principal	November 27 <sup>th</sup> 2013 to till date
Research Associate <i>“Hepatocyte progenitor cells isolation from various sources, characterization expansion and transplantation”</i>	Surgical Gastroenterology -Stem Cell (ICMR)	Govt. Stanley Medical College & Hospital, Chennai	Director	December 26 <sup>th</sup> 2012 to November 26 <sup>th</sup> 2013
Product Application Specialist	Life Sciences	AIC Specialities, Chennai	Director	June 2011 to December 2012
Teaching faculty & Research Officer	Cell and Molecular Biology	MDRF, Chennai	Assistant Director	January 2011 to May 2011

Teaching faculty & Senior Research Assistant	Cell and Molecular Biology	MDRF, Chennai	Assistant Director	March 2008 to January 2011
Research Assistant	Cell and Molecular Biology	Madras Diabetes Research Foundation (MDRF), Chennai	Assistant Director	November 2007 to March 2008

### **Academic Profile:**

TITLE OF THE PhD THESIS: *“Molecular and Biochemical evidence for eco-toxicological impact on freshwater fish from Chrompet Lake, Chennai, India”*

Degree	Subject	Board/University	%	Year
Ph.D.,	Zoology (Molecular Biology)	Bharathiar University	Highly commendable	May 2013
M.Phil.,	Zoology (Biotechnology)	The Presidency College/University of Madras	76.75	2007
M.Sc.,	Zoology (Microbiology)	Thiagarajar College/ Madurai Kamaraj University	81.92	2006
B.Sc.,	Zoology (Spl. Biotechnology)	The American College/ Madurai Kamaraj University	65	2004

### **Recent Achievements:**

1. Received **“Global Teacher Award 2021”** by AKS Education Awards, India, 24<sup>th</sup> October 2021.
2. Received **“Best Young Scientist Award”** from Novel Research Academy, Puducherry, India, November, 2019.
3. Received **“Best Young Faculty Award”** from Novel Research Academy, Puducherry, India, November, 2019.

### **Tamilnadu State Council for Science & Technology (Dept. of Science & Technology) (TNSCST) Grants for Student Research Projects**

Title of the Project	Funding Agency	Amount	Year
A novel probiotic approach to resist inflammatory insults in 3T3 L1 adipocytes	TNSCST, Chennai (Student Project Scheme)	Rs. 7500/-	2023-2024

**Foreign visit:**

Bangkok, Thailand.

**Professional Certification:**

- Completed diploma in medical laboratory technology (DMLT) from All India Institute of Medical Laboratory Technologists Association (2010-2011).
- Course on Pharmaceuticals Marketing and Sales in APSE (Dec'03 & May'04).
- Diploma in Computer Applications (DCA) from Hindustan Software Limited (HSL) in Chennai, 2007.

**Board of Studies Member:**

1. Kamaraj College (Autonomous), Thoothukudi. (Affiliated to Manonmanium Sundaranar University in Tirunelveli) (2024-2027)
2. PGP College of Arts and Science (Autonomous), Namakkal. (Affiliated to Periyar University, Salem) (2024-2027)
3. Annai College of Arts and Science, Kumbakonam. (Affiliated to Bharathidasan University, Trichy)
4. Sharmila Institute of Medicinal Products Research Academy (SIMPRA), Thanjavur - (Affiliated to Bharathidasan university, Trichy).
5. Velammal Medical College Hospital & Research Institute, Madurai.
6. Saveetha Institute of medical and Technical Sciences, Chennai.

**Pudhugai FM 91.2 MHz Community Radio Talk:**

**Gave a talk on “Ez;ghrpfspd; gad;fs;”; (Applications of Microalgae) broadcasted on 11.04.2004, 7.00 am. (Ref. No. TIR-15(5)/2004-P1/NF E/972 dated 29-03-2004).**

1. Gave a talk on “**Biography of Charles Darwin Theory of Evolution**” on 23<sup>rd</sup> April 2023, 5.00 pm. <https://pudhugai.fm.in/190423-2/>
2. Gave a talk on “**Diabetes: Research Studies and Methods**” on 7<sup>th</sup> July 2023, 5.00 pm. <https://pudhugai.fm.in/070723-2/>
3. Gave a talk on “**Let’s Save the Rare Animal Sea Cow from Extinction**” on 28<sup>th</sup> May 2024, 5.00 pm. <https://pudhugai.fm.in/280524-2/>
4. Gave a talk on “**Forest are the Wealth of the Country**” on 20<sup>th</sup> June 2024, 4.00 pm. <https://pudhugai.fm.in/200624-1/>
5. Gave a talk on “**Insulin plant – Benefits and Importance**” on 18<sup>th</sup> July 2024, 4.00 pm. <https://pudhugai.fm.in/180724-1/>
6. Gave a talk on “**Conservation of Sparrow**” on 01<sup>st</sup> August 2024, 4.00 pm. <https://pudhugai.fm.in/010824-1-2/>
7. Gave a talk on “**World Animal Day – History and Conservation**” on 4<sup>th</sup> October 2024, 4.00 pm. <https://pudhugai.fm.in/041024-1/>

8. Gave a talk on “**Magnificence Rich Medicinal Plants**” on 31<sup>st</sup> October 2024, 4.00 pm.  
<https://pudhugaifm.in/311024-1/>
9. Gave a talk on “**Guava**” on 14<sup>th</sup> November 2024, 4.00 pm.  
<https://pudhugaifm.in/141124-1/>
10. Gave a talk on “**Wildlife sanctuaries**” on 19<sup>th</sup> December 2024, 4.00 pm.  
<https://pudhugaifm.in/191224-1/>
11. Gave a talk on “**Wetland Bird Sanctuary**” on 6<sup>th</sup> February 2025, 4.00 pm.  
<https://pudhugaifm.in/060225-3/>

### **Membership of Research Societies:**

- Editorial Board Member - European Journal of Biotechnology and Bioscience  
[www.biosciencejournals.com](http://www.biosciencejournals.com)
- Editorial Board Member - ACTA Scientific Veterinary Sciences  
<https://actascientific.com/ASVS-EB.php>
- Member Reviewer Board of Journal of Drug Delivery and Therapeutics, India.
- Member Reviewer Board of Cancer Biology and Treatment, Herald Scholarly Open access, Herndon, VA 20171, USA
- Associate Editor – International Journal of Zoology and Animal Biology (IZAB)
- Editor of International Journal of Research Publications
- Advisory Board Member of Bioinfo Publications – International Journal of Molecular Biology
- Life member – Tamilnadu Science Forum, Madurai.
- Life member - The Indian Science Congress Association, Kolkata, India.
- Life member – Association for Promotion of DNA Fingerprinting & Other DNA Technologies (ADNAT- C/O, CCMB, Hyderabad, India)
- Student member- Journal of Aquatic Biology, Hyderabad, India.
- Life member – All India Medical Laboratory Technologists Association, New Delhi, India.

### **Research Specialization (Major scientific fields of interest)**

“Cell and Molecular Biology, Molecular Oncology, Diabetology and Molecular Genetics”

*Recognized guide of Bharathidasan University for M.Phil., & Ph. D programme in Zoology and Biotechnology*

### **Reviewer in International & National level journals**

Reviewer - <https://reviewerhub.elsevier.com/review-history/GOCM>

Associate Editor – International Journal of Zoology and Animal Biology (IZAB)  
<https://medwinpublishers.com/IZAB/editorial-board.php>

Advisory Board Member of Bioinfo Publications – International Journal of Molecular Biology  
<https://bioinfopublication.org/journal.php?opt=azjou&jouid=BPJ0000235>

Member of Biological Research & Reviews Advisory Board  
<https://www.ejmanager.com/reviewers/index.ph+Certificate>

International Journal of Pharma and Biosciences, DOI registered (Crossref)., Elsevier indexed

Reviewers Team Journal of Drug Delivery and Therapeutics - jddtonline.info

Saudi Journal of Health Sciences <http://www.journalonweb.com/sjhs/referee.asp>

Cancer Biology and Treatment <http://www.heraldopenaccess.us/journals/Cancer-Biology-&-Treatment/>

Applied Water Science <https://link.springer.com/journal/13201>

Bioresources and Bioprocessing <http://www.bioresourcesbioprocessing.com/>

International journal of current research

Dr. BGR Publications <http://www.drbrpublications.in/Biotech.php>

A & V Publications <http://anvpublication.org/>

International Journal of Pharma and Bio Sciences <http://www.ijpbs.net/contact.html> (Elsevier indexed)

### **Professional Recognition:**

1. **Organizing Secretary** – National Conference on Trends in Healthcare and Biotechnology: Opportunities and Challenges (THBOC 2016) Sponsored by **SERB – DST**, New Delhi (22<sup>nd</sup> and 23<sup>rd</sup> January 2016).
2. **Organizing Secretary** – National Conference on Healthcare and Biotechnology in India: Emerging Trends and Challenges (HBIETC 2017) Sponsored by **UGC**, New Delhi (17<sup>th</sup> and 18<sup>th</sup> August 2017).
3. **Organizing Secretary** – One day Training Programme on **Wikimedia Projects** on 22<sup>nd</sup> November 2021 at A.V.V.M. Sri Pushpam College (Autonomous), Poondi.
4. **Organizing Secretary** – Two day International Conference on Emerging Trends in Biological Science (ICETBS-2025) on 27<sup>th</sup> and 28<sup>th</sup> February 2025 at Sri Vidya Mandir Arts and Science College (Autonomous), Uthangarai, Krishnagiri Dt., In Collaboration with A.V.V.M. Sri Pushpam College (Autonomous), Poondi, Thanjavur.

### **Academic research body participation**

<b>PERIOD</b>	<b>EVENT</b>
From 2024	BOS – Kamaraj College (Autonomous), Thoothukudi. (Affiliated to

	Manonmaniam Sundaranar University in Tirunelveli)
From 2024	BOS - PGP College of Arts and Science (Autonomous), Namakkal. (Affiliated to Periyar University, Salem)
From 05.12.2022	Distinguished Adjunct Faculty in the department of Research and Innovation at Saveetha Institute of Medical and Technical Sciences, Chennai.
2022-2025	Advisory Board Committee member – R & D department at Velammal Medical College Hospital & Research Institute, Madurai.
17.06.2021	External subject expert for Academic audit - Department of Zoology, Govt. Arts College (Autonomous), Kumbakonam
15.12.2015	EXPERT PANEL MEMBER for the technical evaluation committee in the purchase of research instruments at BHARATHIAR UNIVERSITY, Coimbatore
03.10.2018	SELECTION COMMITTEE MEMBER in the selection of Project Assistant in the Dept. of Human Genetics and Molecular Biology at BHARATHIAR UNIVERSITY, Coimbatore
2018-2022	BOS-SHARMILA INSTITUTE OF MEDICINAL PRODUCTS RESEARCH ACADEMY (AFFILIATED TO BHARATHIDASAN UNIVERSITY)
2018- 2025	BOS – Annai College of Arts and Science, Kumbakonam (AFFILIATED TO BHARATHIDASAN UNIVERSITY)
From 2021	DC Member – (Dept. of Zoology) Poompuhar College, Melaiyur, Nagapattinam.
From 2021	DC Member – (Dept. of Zoology) Govt. Arts College, Kumbakonam
From 2020	DC Member – (Dept. of BC) Raja Serfoji Government College, Thanjavur
From 2020	DC Member – (Dept. of BT) Annai College of Arts and Science, Kumbakonam
From 2017	DC Member – (Dept. of HGMB – Dr. VB) Bharathiar University , Coimbatore
From 2015	DC Member – (Dept. of HGMB – Dr. PV) Bharathiar University , Coimbatore
From 2015	DC Member – (Dept. of BT) SIMPRA, Thanjavur
From 2015	DC Member – Dept. of Zoology, A.V.V.M. Sri Pushpam College, Poondi, TJ.
From 2023	DC Member – Dept. of Physics, A.V.V.M. Sri Pushpam College, Poondi, TJ.

**Acted as Doctoral Committee Member to the following Ph.D Candidates:**

S. No	Name of the Scholar	Ref. No	Name of the University
1	T. Jayaseelan	11452/Ph.D.K7/Zoology/FT/July 2021	Bharathidasan
2	Riyaz Ahmed Pala	7194/Ph.D.K1/Medicinal Plt BT/FT/April 2014	Bharathidasan
3	S. Ramadevi	6757/Ph.D.K7/Biotechnology/FT/October 2015	Bharathidasan
4	M. Gomathi	C2/HGMB15PNOVO1/2015	<b>Bharathiar</b>
5	D. Ilakiyapavai	C2/10339/1/2/2019/HGMB/Ph.D	<b>Bharathiar</b>
6	M. Bhuvaneshwari	010173/Ph.D.K9/Biotechnology/PT/August 2019	Bharathidasan
7	S. Parthasarathi	PhD/K9/DR03/200226052728, Dt.26/02/2020	Bharathidasan
8	S. Paventhan	PhD/K9/DR03/20313105832, Dt. 13/03/2020	Bharathidasan
9	N. Jaba Shiny	PhD/K9/DR03/210415080018, Dt.15/04/2021	Bharathidasan
10	M. Sachidhanandham	PhD/K9/DR03/210415080153, Dt. 15/04/2021	Bharathidasan

11.	S. Selvalakshmi	PhD/K9/DR03/210428115432, Dt. 28/04/2021	Bharathidasan
12.	Rajendraprasad K	PhD/K9/DR03/210802062710, Dt.25/08/2021	Bharathidasan
13.	R. Nisha Rose	PhD/K9/DR03/211217125749, Dt. 17/12/2021	Bharathidasan
14.	T. Akilandeswari	PhD/K9/DR03/220524164814, Dt. 24/05/2022	Bharathidasan
15.	Y. Iswarya	PhD/K3/DR03/231013145207, Dt. 13/10/2023	Bharathidasan
16.	M. Jayabharathi	PhD/K9/DR03/230925111159, Dt. 25/09/2023	Bharathidasan
17.	G. Elangovan	PhD/K9/DR03/200820071303, Dt.20/08/2020	Bharathidasan
18.	N. Arunkumar	PhD/K3/DR03/240710115932, Dt.24/07/2024	Bharathidasan
19.	S. Dhamodharan	PhD/K9/DR03/240627144401, Dt.27/06/2024	Bharathidasan
20.	R. Siva Shankar	PhD/K9/DR03/200205111651, Dt.05/02/2020	Bharathidasan
21.	T. Bhuvaneshwari	PhD/K9/DR03/241003143534, Dt.03/10/2024	Bharathidasan
22.	G. Kannan	PhD/K9/DR03/240911114854, Dt.11/09/2024	Bharathidasan
23.	V. Ennavan	PhD/K9/DR03/241109151346, 19/11/2024	Bharathidasan
24.	S Bhuvaneshwari	PhD/K9/DR03/250312102455, 12/03/2025	Bharathidasan

### **Book Published:**

1. **Ganesan S** and Kadhar Nivas R. 2023. Recombinant DNA Technology and Molecular Biology Methods and Protocols. Iyal Publication, Thanjavur. (ISBN: 978-93-92225-06-2)
2. Dr. S. Azhagu Madhavan, Dr. M. Mahadevei and **Dr. S. Ganesan**. 2021. COVID – 19 CLINICAL FEATURES. Notion Press; 1<sup>st</sup> Edition (29 December 2020) (ISBN: 978-1637811719)
3. Azhagu Madhavan S, **Ganesan S** and Mani P. 2020. Biodiversity role on Agriculture Entomology. Xpress Publishing An imprint of Notion Press. (ISBN: 9781648692604) 23.03.2020.
4. Azhagu Madhavan S, **Ganesan S** and Mahadevi M. 2020. Introduction to small and non-small lung cancer patients. Xpress Publishing An imprint of Notion Press. (ISBN: 9781648504280) 11.03.2020.
5. Azhagu Madhavan Sivalingam, **Ganesan Sivamani** and Arjun Pandian. 2020. Introduction to Diabetes Mellitus. Scholar's Press, International Book Market Service Ltd., Mauritius. (ISBN: 978-613-8-92491-3)
6. **Ganesan S** and Mani P. 2019. Cell and Molecular Biology Protocols. Iyal Publication, Thanjavur. (ISBN: 978-93-85283-99-4)

### **Research Publications:**

1. C. Kanimozhi, T. C. Sabari Girisun, S. **Ganesan, S**, Chandramohan, G. Gokila and R. Manimegalai, 2025. Comprehensive nonlinear optical characterization of Otolith crystals from *Pomadasys maculatus* for laser applications. Journal of Nonlinear Optical Physics & Material. March 7, 2025 20:1. DOI:10.1142/S021886352550016X
2. Azhagu Madhavan Sivalingam, Arjun Pandian, Senthilkumar Sivanesan, Maria Francis Yuvaraj, Nivetha Rajendiran, Rajajeyakumar Manivel, **Ganesan Sivamani**, July,



2024. Biochemical Characterization and Green Synthesis of Silver Nanoparticles (AgNPs) from *Costus spicatus* for Potential Anti-Diabetic Target in Streptozocin (STZ) Induced Diabetic Rats. **Journal of Inorganic and Organometallic Polymers and Materials** (*Springer: IF 3.9*) <https://doi.org/10.1007/s10904-024-03233-x>
3. Kuppan Gokulakrishnan, Kaliyaperumal Velmurugan, **Sivamani Ganesan** and Viswanathan Mohan, 2012. Circulating levels of insulin-like growth factor binding protein-1 in relation to insulin resistance, type 2 diabetes mellitus, and metabolic syndrome (CURES - 118), **Metabolism: Clinical and Experimental**. 61: 43-46. (*Elsevier/ Scopus: IF 13.934*)
  4. Vasanthakumar Sekar, Ramakrishnan Veerabathiran, Arjun Pandian and **Ganesan Sivamani**, 2023. Targeting liver cancer stem cell through EpCAM therapy targeted with chemotherapy endorse enhanced progression in hepatocellular carcinoma. *Egyptian Liver Journal*. 13:29. (*Springer Nature: IF 0.179*)
  5. Thangavel Saravanan, Arumugam Sundaramanickam, Maqbool Ahmed, Sivamani Ganesan and J. Indhira Piriyaadharsani, 2023. Antioxidant, antimicrobial and composition of compounds potential of some seaweeds collected from red sea, Southern Jeddah, Saudi Arabia. *Biochem. Cell. Arch.* Vol. 23, No. 2, pp. 1273-1283. (**WOS: IF 0.17**)
  6. Iyshwarya Bhaskar Kalarani, **Ganesan Sivamani** and Ramakrishnan Veerabathiran, 2023. Identification of crucial genes involved in thyroid cancer development. *Journal of the Egyptian National Cancer Institute*. May 22;35(1):15. (*Springer: IF 0.336*)
  7. Elagovan G, **Ganesan S**, Arjun P and Ramasamy M. 2022. Fatty acids and Mineral contents analysis of selected finfishes - *Scomberomorus guttatus* and *Sardinella longiceps*. *Uttar Pradesh Journal of Zoology*. 43(24): 569-575. (WOS)
  8. Elagovan G, Ramasamy M, Arjun P and **Ganesan S**. 2022. Proximate composition and seasonal variation in selected *Scomberomorus guttatus* and *Sardinella longiceps* - finfishes were determined in Nagapattinam coast, South India. *Uttar Pradesh Journal of Zoology*. 43(24): 537-548. (WOS)
  9. Andrew S, T. Palin Sathya Sudha, S. Azhgu Madhavan, **Ganesan S** and Arjun P. 2022. Effective bioactive compounds and fluorescence analysis of brown seaweed *Spatoglossum asperum* J. Agardh. *Uttar Pradesh Journal of Zoology*. 34(24): 493-499. (WOS)
  10. Indumathi A, Faritha Begam H, **Ganesan S** and Arjun P, 2022. Determined biochemical content in *Epinephelus malabaricus* and *Lutjanus argentimaculatus* are economically important finfishes in nagapattinam coast, south India. *Uttar Pradesh Journal of Zoology*. 43(24): 510-521. (WOS)
  11. M. Karthika, AR Balu, **S. Ganesan** and M. Suganya, 2022. A comparative study on the photocatalytic, electrochemical impedance, third order nonlinear optical and antibacterial properties of marine brown alga *Spatoglossum asperum* J. Agardh mediated green synthesized CuS:Co and CuS:Ni nanoparticles. Springer Journals Editorial Office Brazilian Journal of Physics (Accepted)

12. M.Nithyakalyani<sup>1</sup>, Himakar Reddy, Srividhya Raghavan, Anusha Sunder, **Ganesan Sivamani**, Ramakrishnan Veerabathiran, 2022. Isolation of Human Pancreatic Islets from the Indian Population - Unveiling the Synergistic Interplay between different blends of Collagenases and Neutral Proteases. *Cardiometry*. Issue 24, Nov 243-251. (WOS)
13. Andrew S, Chelladurai G, Subramaniyan V, Arjun P, and **Ganesan S** 2022. Anti-diabetic potential of *Spatoglossum asperum* (Brown seaweed); *In silico* model. *Uttar Pradesh Journal of Zoology*. 43(19): 48-57. (WOS)
14. Andrew S, Arjun P, Ramakrishnan V, Ramasamy M, Chelladurai G and **Ganesan S** 2022. Antidiabetic effects of marine brown algae *Spatoglossum asperum* J. Ag. Ethanolic extract on 3T3-L1 Pre-Adipocytes activity an in vitro approach. *International Journal of Health Sciences*. 6(S4), 11828-11847. (Scopus)
15. Indumathi A, Faritha Begam H, **Ganesan S** and Arjun P, 2022. Composition of peroximate and types of amino acids analysis of cost-effectively essential finfishes – *Lutjanus argentimaculatus*, *Epinephelus malabaricus* in Nagapattinam Coast of Tamil Nadu, South India. *International Journal of Health Sciences*. 6(S5), 10655-10668. (Scopus)
16. Elagovan G, **Ganesan S**, Arjun P, Ramakrishnan V and Ramasamy M, 2022. Peroximate composition and different types of amino acids analysis of economically important finfishes – *Sardinella fimbriata*, *Scomberomorus guttatus* in Nagapattinam Coast, Tamil Nadu, India. *International Journal of Health Sciences*. 6(S5), 10642-10654. (Scopus)
17. Vasanthakumar S, Sasikala P, Padma M, Balachandar V, Venkatesh B and **Ganesan S**, 2017. EpCAM as a Novel Therapeutic target for Hepatocellular carcinoma. *Journal of Oncological Sciences*, 3:2 pp 71-76. (*Elsevier*)
18. C. Kanimozhi, S. Ganesan, G. Gokila and R. Manimegalai, 2022. In vitro evaluation of Cytotoxicity, Anti- Inflammatory and Wound healing properties of Otolith Stones from *Pomadasys maculates*. *Journal of Materials Science*, A Springer Nature Publication. 57:11899-11910. (**IF: 4.22**) (**Scopus Indexed**)
19. Gokulakrishnan K, Indulekha K, **Ganesan S**, Anuradha S and Mohan V, Adiponectin and Carotid Medial Thickness in subjects with and without Glucose Intolerance – (CURES-82), *Diabetes Technology & Therapeutics*. Volume 12, Number 2, 2010. Mary Ann Liebert, Inc., publishers (**Scopus/PubMed : IF 6.118**)
20. Azhagu Madhavan S, **Ganesan S**, Mahadevi M, Vinotha P, Uma V, Senthil J. 2021. Medical and Healthcare Effective Therapeutic and Covid-19 Role of Herbal Medicine in The Treatment: A Review. *Advances in Bioresearch*. Vol:12, Issue: 4, page No. 310-315. (WOS)
21. Senthilkumar S, Azhagu Madhavan S, Rajakumar R, **Ganesan S**. 2021. Serum Lipid Profile and *In vivo* antidiabetic activity of medicinal plant *Costus spicatus* in diabetic

- albino Wistar rats. International Journal of Botany Studies. Volume 6, Issue 3, 2021, Page No. 20-25. **(WOS)**.
22. Senthilkumar S, Azhagu Madhavan S, Mariappan P, **Ganesan S**. 2021. *In vivo* assay methods to study the Anti-diabetic activity of ethanolic extract of flower of *Costus spicatus* in diabetic albino Wistar rats. International Journal of Botany Studies, Volume 6, Issue 3, 2021, Page No. 120-124. **(WOS)**.
  23. Azhagu Madhavan S, **Ganesan S**, Mahadevi M, Vinotha P, Uma V, Senthil J. 2021. Medicinal and Healthcare effective therapeutic and Covid-19 role of herbal medicine in the treatment. Advances in Bioresearch, Vol 12 (4) July 2021: 310-315. **(WOS)**.
  24. Azhagu Madhavan S, Mahadevi M, Vinotha P, Uma V, **Ganesan S**. 2021. People Preferences in Selection of Hospital During Covid-19 Impact on Personal Life Review. International Journal of Engineering Research & Technology. ICRADL - 2021 Conference Proceedings. Volume 9, Issue 5: 268- 272.
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#### **Book Chapters:**

1. B.K. Iyshwarya, Ramakrishnan Veerabathiran, **Ganesan Sivamani** and M. Nithyakalyani, August, 2024. The Role of Matrix Metalloproteinase in Molecular and Cellular Aspects of Oral Squamous Cell Carcinoma (Taylors and Francis Publication). Accepted.
2. B.K. Iyshwarya, Ramakrishnan Veerabathiran, **Ganesan Sivamani** and M. Nithyakalyani, August, 2024. Protease activator receptor-1 and matrix metalloproteinase-1 as prognostic factors and a novel therapeutic targets for gastric cancer. *Pathophysiological Aspects of Proteases in Cancer*, (Elsevier Publication). <https://doi.org/10.1016/B978-0-443-30098-1.00012-4>.
3. B.K. Iyshwarya, Ramakrishnan Veerabathiran and **Ganesan Sivamani**. 2024. Potential role of stem cells in the pathogenesis of endometriosis. *STEM CELLS AND SIGNALING PATHWAYS*, Imprint of Elsevier. ISBN: 978-0-443-18800-8. Pp 437-449. <https://doi.org/10.1016/B978-0-443-18800-8.00002-2>.

4. Azhagu Madhavan S, **Ganesan S**, Maneemegalai S, Vinayagamoorthi P, Mahadevi M. 2021. Transmission Qualities and Pathogenesis of Sars-Cov-2 and Covid-19 infections in Humans therapeutics & Recent developments in current evidence reviews. Hospitality and Tourism Industry amid COVID-19 Pandemic, Eureka Publications. Pp 251-269. (ISBN: 978-81-951936-0-8)
5. Azhagu Madhavan S, **Ganesan S**, Vinotha P, Uma V, Mahadevi M, Senthil J. 2021. Immune system might promote recovery for mild COVID-19 patient's impact of Coronavirus on education in India review. Hospitality and Tourism Industry amid COVID-19 Pandemic, Eureka Publications. pp 465-477. (ISBN: 978-81-951936-0-8)

#### **Sequences published:**

- ❖ 4 sequences have been submitted in GenBank and published in NCBI Database. The GenBank accession numbers of the published sequences are: KU041528, KU041529, KU041530 and KU041531

#### **Patent:**

1. Cell Separator with dual filtration system. (Design application No: 410050-001/D?SUS/AG) Date of Dispatch/Email: 10/04/2024.
2. Heater box face mask for kills virus (SARS-COV-2) and other pathogens/29-02. Ref. No: 352204-001 filed to Patent office, Government of India. (C.B.R. NO: 200128). Cbr Date; 28/10/2021 16.04.44. Design Accepted and Published, Journal No is **51/2021** and Journal Date is 17/12/2021.

#### **Nominated & Served as M.Phil & PhD examiner for students outside the AVVMSPC:**

Conducted M.Phil., viva-voce examination and served as an examiner for students from:

- ❖ Bharathiar University, Coimbatore
- ❖ Madurai Kamaraj University, Madurai
- ❖ Bharathidasan University, Trichy
- ❖ Alagappa University, Karaikudi
- ❖ Manomaniam Sundaranar University, Tirunelveli

#### **Question Paper Setter**

- ❖ Bharathiar University, Coimbatore & affiliated Colleges
- ❖ Periyar University, Salem & affiliated Colleges
- ❖ Madurai Kamaraj University, Madurai & affiliated Colleges
- ❖ Bharathidasan University, Trichy & affiliated Colleges
- ❖ Alagappa University, Karaikudi & affiliated Colleges
- ❖ Madras University, Chennai & affiliated Colleges
- ❖ Manonmaniam Sundaranar University, Tirunelveli & affiliated Colleges
- ❖ Chettinad Academy of Research & Education, Chennai.

### **Invited Talks delivered and chaired a Session:**

1. **“Role of Stem Cells in Down Syndrome”** – Guest Lecture (F/N) delivered in the Department of Human Genetics and molecular Biology on 20<sup>th</sup> March 2025 at Bharathiar University, Coimbatore.
2. **“Exploring Stem Cell Therapy in Down Syndrome Treatment”** – Guest Lecture (A/N) delivered in the Department of Human Genetics and molecular Biology on 20<sup>th</sup> March 2025 at Bharathiar University, Coimbatore.
3. **“DNA Finger Printing and its Applications”** – Resource person and delivered a special lecture to Zoology Association Meeting at Nehru Memorial College (Autonomous), Puthunampatti, Tiruchirappalli on 10.03.2025.
4. **“Current Status of Stem Cell Research in India”** – Invited talk delivered in the Two day International Conference on Emerging Trends in Biological Science (ICETBS-2025) on 27<sup>th</sup> and 28<sup>th</sup> February 2025 at Sri Vidya Mandir Arts and Science College (Autonomous), Uthangarai, Krishnagiri Dt., In Collaboration with A.V.V.M. Sri Pushpam College (Autonomous), Poondi, Thanjavur.
5. **“Revolutionizing Life Sciences: A Hackathon for the Future”**– Invited talk delivered at PG and Research Department of Biochemistry, Theivanai Ammal College for Women (Autonomous), Villupuram on 10.02.2025.
6. **“Resource Person”** – special talk delivered in the “Inservice Training to Science Teachers” organized by TNSCST held at E.G.S. Pillay Arts and Science College, Nagapattinam on 23.01.2025.
7. **“Stem Cells Research: The Roadmap for Next Generation”** – Invited talk delivered in the National Conference on 22<sup>nd</sup> January 2025 at Morappur Kongu College of Arts and Science College, Morappur.
8. **Selection committee member** (Judge Panel) for the Science Exhibition on 08.11.2024 at Viraraghava Higher Secondary School, Thanjavur.
9. **“Stem Cells in Healthcare Research”** – Invited talk delivered in the International Conference on “Recent Trends and Innovations in Biological Science for Human Health and Diseases” (ICRIBHD) on 25<sup>th</sup> September 2024 at E.G.S. Pillay Arts and Science College, Nagapattinam.
10. **“Exploring career opportunities in Biotechnology”** - Invited talk delivered in the Department of Biotechnology on 06<sup>th</sup> August 2024 at J.J. College of Arts and Science, Pudukkottai.
11. **“The Emergence of New tools for rare disease diagnosis”** – Invited talk delivered in the DHR-ICMR funded workshop on "Hands-on Training in Cytogenetic Technique (Theme: Hereditary and Rare Genetic Disease Diagnostic Tool)” on 25<sup>th</sup> July 2024 at Bharathiar University, Coimbatore.
12. **“Drosophila Genetics and its advancements”** – Guest Lecture (A/N) delivered in the Department of Human Genetics and molecular Biology on 11<sup>th</sup> March 2024 at Bharathiar University, Coimbatore.



13. **“Drosophila Genetics: Axis formation”** – Guest Lecture (F/N) delivered in the department of Human Genetics and molecular Biology on 11<sup>th</sup> March 2024 at Bharathiar University, Coimbatore.
14. **“Recent Trends in Cancer Biology”** – Guest Lecture delivered in the department of Zoology on 27<sup>th</sup> February 2024 at Govt. Arts and Science College, Veppanthattai, Perambalur Dt.,
15. **“Recent Trends in Stem Cell Biology”** – Guest Lecture delivered in the department of Zoology on 7<sup>th</sup> February 2024 at H.H. Rajah’s College, Pudhukottai.
16. **Chaired a session** for Oral/Poster presentation in the **DBT and CSIR** sponsored National Conference on **“Global Opportunities and Latest Developments in Biotechnology”** (GOLD-B 2024) organized by the PG & Research Department of Biotechnology held on 04<sup>th</sup> & 05<sup>th</sup> January 2024 at J.J. College of Arts and Science, Pudukkottai.
17. **“Stem Cell role in Cancer Biology”** – Guest Lecture delivered in the department of Biotechnology on 14<sup>th</sup> October 2023 at E.G.S. Pillay Arts and Science College, Nagapattinam.
18. **“Tumour Immunology”** – Guest Lecture (A/N) delivered in the department of Human Genetics and molecular Biology on 21<sup>st</sup> September 2023 at Bharathiar University, Coimbatore.
19. **“Transplantation Immunology”** – Guest Lecture (F/N) delivered in the department of Human Genetics and molecular Biology on 21<sup>st</sup> September 2023 at Bharathiar University, Coimbatore.
20. **“Recent trends in Drosophila research”** – Invited talk delivered in the Value added course on Drosophila research on 27<sup>th</sup> April 2023 at Bharathiar University, Coimbatore. (Online mode)
21. **“Recent trends in Biotechnology”** - Invited talk delivered in the Department of Biotechnology on 28<sup>th</sup> March 2023 at Rajah Serfoji Government College (Autonomous), Thanjavur.
22. **Chaired a session** for Oral presentation in the **“International Conference On Environmental Degradation”** (ICED’23) organized by the PG & Research Department of Zoology held on 24<sup>th</sup> & 25<sup>th</sup> March 2023 at Government Arts College (Autonomous), Kumbakonam.
23. **Chaired a session** for Oral presentation in the International Conference on **“Recent Advances in Animal Science** (ICRAAS’23) organized by the PG & Research Department of Zoology held on 01.02.2023 at The American College, Madurai.
24. **“Probiotics and its role in human health”** – Guest lecture delivered in the department of Microbiology on 13<sup>th</sup> October 2022 at Arputha College of Arts and Science, Pudukkottai.
25. **“DNA fingerprinting”** – Guest Lecture (A/N) delivered in the department of Human Genetics and molecular Biology on 05<sup>th</sup> September 2022 at Bharathiar University, Coimbatore.

26. **“Blotting Techniques”** – Guest Lecture (F/N) delivered in the department of Human Genetics and molecular Biology on 05<sup>th</sup> September 2022 at Bharathiar University, Coimbatore.
27. **“Cell Culture Techniques”** – Hands – on-Training programme at Department of Biotechnology, J.J. College of Arts and Science (Autonomous), Pudukkottai on 17<sup>th</sup> August 2022.
28. **“Role and Responsibilities”** – A/N, **Resource Person** on In-Service teacher Training Program sponsored by TANSCHHE held at Thiru. Vi. Ka.. Government College, Thiruvarur on 06<sup>th</sup> May 2022.
29. **“GER, NIRF & NAAC”** – F/N, **Resource Person** on In-Service teacher Training Program sponsored by TANSCHHE held at Thiru. Vi. Ka.. Government College, Thiruvarur on 06<sup>th</sup> May 2022.
30. **Resource Person** on National Seminar on Recent Advances in Life Science at Thiru. Vi. Ka. Government College, Thiruvarur on 08<sup>th</sup> April 2022.
31. **Resource Person** on National Science Day – 2022 through Virtual mode organized by the School of Bioscience, Annai College of Arts and Science, Kumbakonam on 28<sup>th</sup> February 2022.
32. **Chairperson/Judge** – oral/poster presentation in the Virtual 3<sup>rd</sup> International conference on Environmental, Agricultural, Chemical and Biological Sciences (ICEACBS-2022) in support of United nations held on January 22,23,26 2022.
33. **“MOOC Module Development”** – invited talk at PG & Research Department of Economics, A.V.V.M. Sri Pushpam College (Autonomous), Poondi on 10<sup>th</sup> January 2022.
34. **“MOOC Module Development”** – invited talk at PG & Research Department of Mathematics, A.V.V.M. Sri Pushpam College (Autonomous), Poondi on 7<sup>th</sup> January 2022.
35. **“Funding agencies for Research”** – invited talk at PG & Research Department of Zoology and biotechnology, A.V.V.M. Sri Pushpam College (Autonomous), Poondi on 6<sup>th</sup> January 2022.
36. **“Structure of a quality research paper”** – invited talk delivered in the International Webinar - Research forum – India, on 16<sup>th</sup> December 2021.
37. **“Stem Cell(s) Therapy”** – Invited talk delivered in Zoology Association Meeting, FAUNA-2021 on 09.12.2021 at Kamaraj College, Thoothukudi.
38. **“An overview of Intellectual property Rights”** – Invited talk delivered in the IPR cell on 09.12.2021 at Sengamala Thayaar Educational Trust Women’s College (Autonomous), Sundarakkottai, Mannargudi.
39. **“Targeting Breast Cancer stem cell through EpCAM targeted therapy along with chemotherapy promote better progression in breast cancer”** – Invited talk delivered in the 4<sup>th</sup> Virtual conference on Cancer Science and Oncology 27<sup>th</sup> – 28<sup>th</sup> September 2021.
40. **“Role of Stem Cells in Human Health and Research”** - Invites talk delivered in the National Webinar on 26<sup>th</sup> June 2021 at Rajah Serfoji Government College (Autonomous), Thanjavur.

41. **“Challenges of IPR in Current Scenario”** – Invited talk delivered in the Three days online FDP on 20<sup>th</sup> June 2021 at Sengamala Thayaar Educational Trust Women’s College (Autonomous), Mannargudi, Thanjavur.
42. **“The role of Stem Cells in the Management of Liver Cancer”** – Invited talk delivered in the DST-PURSE sponsored Webinar on Genetic Disease and Disorders on 18<sup>th</sup> March 2021 at Bharathiar University, Coimbatore.
43. **“Recent trends in Drosophila research”** – Invited talk delivered in the national Certificate course on Drosophila research on 24<sup>th</sup> February 2021 at Bharathiar University, Coimbatore. (Online mode)
44. **“Phytomedicine and Health”** Invited talk delivered in the National level Webinar organized by PG & Research Department of Biochemistry, Rajah Serfoji Government College, Thanjavur on 13<sup>th</sup> July 2020.
45. **“The role of oxidative stress in diabetic complications”** – Invited talk delivered in the national seminar on Novel approaches and Challenges in Phytomedicine and Phytopharmaceuticals held on 16<sup>th</sup> March 2020 at Rajah Serfoji Government College, Thanjavur.
46. **“Role of Oxidative stress in Senescence and Ageing”**. Invited talk delivered in the International Conference on Transdisciplinary and Innovative Research in Science held on 26<sup>th</sup> – 28<sup>th</sup> February 2020 at Thiruvalluvar University, Vellore.
47. **Chaired a session/Judge** for Poster presentation in the DBT sponsored International conference on Frontiers in Chronic Disease held on 19<sup>th</sup> February 2020 at Bishop Heber College (Autonomous), Tiruchirappalli.
48. **“Role of Stem Cells in Cancer Therapy”** Invited talk delivered in the National seminar on Molecular Basis of Cancer & Prevention held on 18<sup>th</sup> February 2020 at PRIST University, Thanjavur.
49. **“Targeting Liver Cancer Stem Cell Through EpCAM Targeted Therapy Along With Chemotherapy Promote Better Progression In Hepatocellular Carcinoma”** Invited talk delivered in the 2<sup>nd</sup> World Congress on Cancer Science and Therapy held on December 02-03, 2019 at Bangkok, Thailand. (*Abstract published in International Journal of Cancer and Treatment*)
50. **“Imposing oxidative stress in 3T3 L1 adipocytes and molecular dissection of Senescence and insulin resistance mechanisms”** Invited talk delivered in the DBT sponsored National conference on Biology and Medicine organized by the Department of Zoology & Human Genetics and Molecular Biology held on 08<sup>th</sup> February 2019 at Bharathiar University, Coimbatore.
51. **Chaired a session** for Oral and **Judge** for Poster presentation in the DBT sponsored National conference on Biology and Medicine organized by the Department of Zoology & Human Genetics and Molecular Biology held on 07-08 February 2019 at Bharathiar University, Coimbatore.
52. **“Role of IPR in Biological Sciences”** Invited talk delivered at PG and Research Department of Microbiology, Sengamala Thayaar Educational Trust Women’s College, Mannargudi, on 31<sup>st</sup> December 2018.

53. **Chief Guest** – 15<sup>th</sup> Science Exhibition at C.S. Matriculation Higher Secondary School, Thanjavur on 26<sup>th</sup> October 2018.
54. **“rDNA Technology”** - at the School of Bioscience, Annai College of Arts and Science, Kumbakonam on 18<sup>th</sup> September 2018.
55. **“Nature of Cancer Cells”** – at PG & Research Department of Physics, A.V.V.M. Sri Pushpam College (Autonomous), Poondi on 7<sup>th</sup> August 2018.
56. **Chaired a session** in the UGC sponsored National conference on Phytochemicals in Medicinal Plants and Food organized by the Department of Biochemistry held on 1<sup>st</sup> February 2018 at Bharathidasan University Constituent College for Women, Orathanadu.
57. **“Organic Farming Awareness”** - at the School of Bioscience, Annai College of Arts and Science, Kumbakonam on 03<sup>rd</sup> January 2018.
58. **Chaired a session** in the ISCA, Kolkata sponsored three-day National level conference on Reaching the Unreached through Science and Technology – Concepts, principles and application of Science and Technology for Nation Building organized by ISCA, Coimbatore chapter held at Kongunadu Arts and Science College, Coimbatore during 9<sup>th</sup> -11<sup>th</sup> October 2017.
59. **“Evaluation of accelerated cellular senescence in Mesenchymal stem cells isolated from human bone Marrow, adipose tissue, umbilical cord blood and Wharton’s jelly”** International Conference on Environment, Genes, Health & Diseases **EGHD-2017**, at the Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore on 22<sup>nd</sup> August 2017. (*Abstract published in Mechanism of Development-Elsevier Science 0925-4773*).
60. **Emergence and Development of Chick Embryo and RDNA Technology Role in Medicine** - at the Department of Biochemistry, Bharathidasan University Constituent College for Women, Orathanadu during 21<sup>st</sup> July 2017.
61. **“Recent trend in Biotechnology”** - at the School of Bioscience, Annai College of Arts and Science, Kumbakonam on 11<sup>th</sup> July 2017.
62. **“Environmental Conservation: role in Healthcare”** - at the Department of Biotechnology, A.V.C. College, Mayiladuthurai on 16<sup>th</sup> March 2017.
63. **“Oxidative Stress in Diabetes”** – 104<sup>th</sup> Indian Science Congress at SV University, Tirupati on 03<sup>rd</sup> to 07<sup>th</sup> January 2017.
64. **“Phytomedicine and their Role in Healthcare System”** – National Conference on Phytochemicals in Medicinal Plants and Food”, at the Department of Biochemistry, Bharathidasan University Constituent College for Women, Orathanadu during 31<sup>st</sup> July and 01<sup>st</sup> August 2015.
65. **“Phytomedicine”** - at the Department of Biotechnology, Bioscience, Annai College of Arts and Science, Kumbakonam on 08<sup>th</sup> July 2015.
66. **“Biosafety and Bioethics in Stem cell culture”** - at the Department of Biotechnology, School of Bioscience, Annai College of Arts and Science, Kumbakonam on 24<sup>th</sup> July 2014.

**PhD students under my supervision at the Zoology and Biotechnology Department of AVVMSPC, Poondi (affiliated to the Bharathidasan University) working on the following topics:**

1. **Dr. S. Vasanthakumar** - “Combinatorial approaches to understanding the tumour recurrence in Liver Cancer” (Degree awarded on 14.09.2019)
2. **Dr. M. Padma** - “Phytochemical, pharmacological and molecular studies on *Silybum marianum* (L.) Gaertn. (Milk thistle) seed extract against Colorectal Cancer” (Degree awarded on 12.03.2020)
3. **Dr. B. Babu** - “Targeting drug efflux transporter in Cyclophosphamide resistant Breast Carcinoma” (Degree awarded on 02.07.2020)
4. **Dr. P. Sasikala** - “Clinical significance and molecular mechanism of *Taraxacum officinale* (L.) Weber Ex F.H.Wigg (Dandelion) root extract against Liver Cancer” (Degree awarded on 07.07.2020)
5. **Dr. S. Azhagu Madhavan** - Elucidating the pharmacological effect of *Costus spicatus* (Jacq-1788) rhizome extract in Streptozotocin-Induced Diabetic Albino Wistar Rats (Degree awarded on 17.07.2020)
6. **Dr. D. Muthu** - “Combinatorial approaches to understanding the tumour recurrence of Breast Cancer” (Degree awarded on 26.11.2020)
7. **S. Senthilkumar** - Elucidating the pharmacological effect of *Costus spicatus* (Jacq - 1788). flower extract in streptozotocin induced diabetic albino rats (Synopsis Submitted on 28.06.2021)
8. **S. Andrews** - Evaluation of phytochemical, *In vitro* antioxidant and antidiabetic efficacy of *Spatoglossum asperum* J. Agardh in 3T3 - L1 adipocyte cell line (Persuing)
9. **M. Sakthivel** - Therapeutic Potential of Green synthesised SeNPs; A therapeutic and mechanistic approach (Persuing).
10. **P. Vanmuhil** - A Comparative Study on the Antibacterial and Antidiabetic potentials of Mg and Sr Nanoparticles Green Synthesized using *Andrographis paniculata* and *Ocimum sanctum* Leaf Extracts (Persuing).
11. **S. Thaila** - Influence of Biological Macromolecules on the Antidiabetic and Antibacterial Properties of NiO Nanoparticles (Persuing)

**M.Phil., students under my supervision at the Zoology and Biotechnology Department of AVVMSPC, Poondi (affiliated to the Bharathidasan University) completed/working on the following topics:**

1. Oxidative Stress Induced The Cellular Premature Senescence In 3T3 L1 Adipocytes (Thesis awarded- 2016 - Senthilkumar)
2. Resveratrol Prevents Oxidative Stress-Induced Senescence by activating the p53 signaling pathway in Cultured Mouse pre-adipocytes (3T3 L1) cell line (Thesis awarded- 2017 - Punithavathi)

3. Anti-Diabetic Effect of *Costus Spicatus* Leaves In Normal And Streptozotocin-Induced Diabetic Albino Rats (Thesis awarded-2018 - Suresh)
4. Phytochemical analysis and anti-diabetic effect of *Aloe vera* Linn. Plat powder (Thesis awarded -2019 - Ramachandran)
5. Curcumin Inhibits Oxidative Stress-Induced DNA damage by activating the p53 signaling pathway in 3T3-L1 Adipocytes (Thesis awarded-2022 – T. Mary Jega)

**M.Sc., students under my supervision at the Zoology and Biotechnology Department of AVVMSPC, Poondi (affiliated to the Bharathidasan University) completed/working on the following topics:**

1. Therapeutic potential of green synthesized silver nanoparticles (AgNPs) from leaves of *Costus spicatus* (jacq.); a therapeutic and mechanistic approach (A. Pugazhendhi - 22ZOA310) Awarded – 2024.
2. A novel probiotic approach to resist anti-inflammatory insults in 3T3 L1 Adipocytes (S. Vijayalakshmi - 22ZOA359) Awarded – 2024.
3. Effect of Curcumin on Stress-Induced Premature Senescence (R. Nijanthan - 21ZOA301) Awarded – 2023.
4. A novel probiotic approach to resist inflammatory insults in 3t3 l1 adipocytes (S.Kasthuri – 20BTC455) Awarded – 2022
5. A novel probiotic approach to resist oxidative stress in human pancreatic beta cells (S. Sakthivel -20ZOA303) Awarded - 2022
6. The antihyperglycemia effects of *Aloe vera* in mouse 3t3-L1 pre-adipocytes (K Manikkavel -18ZOA304) Awarded – 2020.
7. Anticancer activity of Methanolic root extract from *Taraxacum officinale* (L.) in MDA-MB-231 Cell line (K. Sivaranjani – 17ZOA355) Awarded – 2019

**Oral presentation in National & International Conferences:**

1. Pugazhendhi. A and **Ganesan S.** Therapeutic potential of green synthesized silver nanoparticles (AgNPs) from leaves of *Costus spicatus* (Jacq.); a therapeutic and mechanistic approach. Oral presentation in the DBT and CSIR sponsored National Conference on “Global Opportunities and Latest Developments in Biotechnology” (GOLD-B 2024) organized by the PG & Research Department of Biotechnology held on 04<sup>th</sup> & 05<sup>th</sup> January 2024 at J.J. College of Arts and Science, Pudukkottai.
2. Vijayalakshmi S and **Ganesan S.** A novel probiotic approach to resist inflammatory insults in 3T3 L1 adipocytes. Oral presentation in the DBT and CSIR sponsored National Conference on “Global Opportunities and Latest Developments in Biotechnology” (GOLD-B 2024) organized by the PG & Research Department of

Biotechnology held on 04<sup>th</sup> & 05<sup>th</sup> January 2024 at J.J. College of Arts and Science, Pudukkottai.

3. Thangavel Saravanan, Arumugam Sundaramanickam, and **Sivamani Ganesan**. Antioxidant, Anticancer Activity and Phytochemical Analysis of Brown Algae, *Spatoglossum soleri* Collected from the Arabian Gulf. Oral presentation in the DBT and CSIR sponsored National Conference on “Global Opportunities and Latest Developments in Biotechnology” (GOLD-B 2024) organized by the PG & Research Department of Biotechnology held on 04<sup>th</sup> & 05<sup>th</sup> January 2024 at J.J. College of Arts and Science, Pudukkottai.
4. Sakthivel M and **Ganesan S**. Therapeutic potential green synthesis of selenium nanoparticles for biomedical applications. Oral presentation in the DBT and CSIR sponsored National Conference on “Global Opportunities and Latest Developments in Biotechnology” (GOLD-B 2024) organized by the PG & Research Department of Biotechnology held on 04<sup>th</sup> & 05<sup>th</sup> January 2024 at J.J. College of Arts and Science, Pudukkottai.
5. Andrews S, Devendran G and **Ganesan S**. Biological activity of *Spatoglossum asperum* (BROWN SEAWEED): *In silico* approach. “International Conference on Environmental Degradation” (ICED’23) organized by the PG & Research Department of Zoology held on 24<sup>th</sup> & 25<sup>th</sup> March 2023 at Government Arts College (Autonomous), Kumbakonam.
6. Devendran G and **Ganesan S**. Diversity and Distribution of Spider in Paddy Field Ecosystem of Poondi, Thanjavur District, Tamil Nadu, India. “International Conference on Environmental Degradation” (ICED’23) organized by the PG & Research Department of Zoology held on 24<sup>th</sup> & 25<sup>th</sup> March 2023 at Government Arts College (Autonomous), Kumbakonam.
7. Nambirajan P and **Ganesan S**. The Effect Of Heavy Metals From Tannery Effluents On The Fresh Water Fish *Catla catla* And Health Status Of The Consumer In Thanjavur District, “International Conference on Environmental Degradation” (ICED’23) organized by the PG & Research Department of Zoology held on 24<sup>th</sup> & 25<sup>th</sup> March 2023 at Government Arts College (Autonomous), Kumbakonam.
8. Mary Jega T and **Ganesan S**. Curcumin Inhibits Oxidative Stress-Induced DNA damage by activating the p53 signaling pathway in 3T3-L1 Adipocytes – One day seminar on Current Scenario in Zoology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur held on 30 August 2022.
9. **Ganesan S** participated one day national seminar on recent Diagnostic and Therapeutic Approaches on Non- communicable Diseases. Organized by Department of Zoology held on 19<sup>th</sup> March 2022 at S. Vellaichamy Nadar College (Autonomous), Madurai.
10. **Ganesan S** and Azhagu Madhavan S. Phytochemical screening and GC–MS analysis of bioactive compounds present in ethanolic leaves extract of *Taraxacum officinale* (L). National Conference on Wetland Biodiversity and its conservation strategy held on 30<sup>th</sup> – 31<sup>st</sup> January 2020 at A.V.V.M. Sri Pushpam College (Autonomous), Poondi, Thanjavur.
11. J. Yasotha, Priya prasannan, R. Ramasubbu , S. Ramesh, **S. Ganesan** & P. Arjun. Organic additives improve the in vitro culture technique in Plants. National Conference on Wetland Biodiversity and its conservation strategy held on 30<sup>th</sup> – 31<sup>st</sup> January 2020 at A.V.V.M. Sri Pushpam College (Autonomous), Poondi, Thanjavur.
12. **Ganesan S** and Azhagu Madhavan S. Phytochemical screening and GC–MS analysis of bioactive compounds present in ethanolic leaves extract of *Taraxacum officinale* (L). National Conference on Wetland Biodiversity and its conservation strategy held on 30<sup>th</sup>

– 31<sup>st</sup> January 2020 at A.V.V.M. Sri Pushpam College (Autonomous), Poondi, Thanjavur.

13. Andrews S, Azhagu Madhavan S, Bhuvanewari M, **S Ganesan**. Preliminary phytochemicals analysis of the ethanolic extract of brown seaweed *Spatoglossum marginatum*. International Conference on Transdisciplinary and Innovative Research in Science held on 26<sup>th</sup> – 28<sup>th</sup> February 2020 at Thiruvalluvar University, Vellore.
14. S. Azhagu Madhavan, S. Andrews, M. Bhuvanewari, **S. Ganesan**. Anti-hyperglycemic activity of *Costus spicatus* rhizome in chloroform extract in Streptozotocin induced diabetic albino wistar rats. International Conference on Transdisciplinary and Innovative Research in Science held on 26<sup>th</sup> – 28<sup>th</sup> February 2020 at Thiruvalluvar University, Vellore.
15. Manikkavel K, Azhagu Madhavan S, Andrews S, Bhuvanewari M, **Ganesan S**. Antidiabetic activity of *Aloe vera* cytotoxicity, antiadipogenic and glucose uptake activity of Mouse 3T3L1 cell line. DBT sponsored International conference on Frontiers in Chronic Disease held on 19<sup>th</sup> February 2020 at Bishop Heber College (Autonomous), Tiruchirappalli.
16. T. Jayaseelan, R. Damodaran, **S. Ganesan**, P. Mani. National seminar on Molecular Basis of Basis of Cancer & Prevention held on 18<sup>th</sup> February 2020 at PRIST University, Thanjavur.
17. S. Andrews, S. Azhagu Madhavan, **S. Ganesan**. Bio-prospecting of a few Brown seaweeds for their antioxidant activities. International conference on Challenges to Environment and Health held on 30<sup>th</sup> January 2020 at Jamal Mohamed College, Tiruchirappalli.
18. S. Azhagu Madhavan, P. Vinotha, V. Uma, S. Andrews, M. Bhuvanewari, **S. Ganesan**. Pharmacological effect of *Costus spicatus* rhizome ethanolic extract in Streptozotocin induced diabetic albino wistar rats. International conference on Challenges to Environment and Health held on 30<sup>th</sup> January 2020 at Jamal Mohamed College, Tiruchirappalli.
19. **Ganesan S**, Oxidative Stress and Cancer. National Conference on Innovation in Life Sciences for sustainable Environment (ILSE) organised by Department of Life Sciences held on 20 and 21 February 2019 at CHRIST University, Bangalore.
20. T.Jayaseelan, R.Damodaran, **S. Ganesan**, P.Mani. Phytochemical investigation and GC-MS analysis of bioactive components of Ethanol leaves extract of *Clerodendrum phlomidis* (L.). DBT sponsored National conference on Biology and Medicine organized by the Department of Zoology & Human Genetics and Molecular Biology held on 07-08 February 2019 at Bharathiar University, Coimbatore.
21. Azhagumadhavan S, Jayaseelan T, **Ganesan S**. Phytochemical analysis of rhizome extract of plant *Costus spicatus* by GC-MS method. DBT sponsored National conference on Biology and Medicine organized by the Department of Zoology & Human Genetics and Molecular Biology held on 07-08 February 2019 at Bharathiar University, Coimbatore.
22. S.Senthilkumar, **S.Ganesan**, S.Azhagumadhavan, T.Jayaseelan, P.Mani. Signaling pathways targeted antidiabetic compound from *Costus spicatus* Linn. DBT sponsored National conference on Biology and Medicine organized by the Department of Zoology & Human Genetics and Molecular Biology held on 07-08 February 2019 at Bharathiar University, Coimbatore.



23. P. Sasikala, **S. Ganesan**, T.Jayaseelan, S.Azhagumadhavan, P.Mani. Phytochemicals and GC–MS analysis of bioactive compounds present in ethanolic leaves extract of *Taraxacum officinale* (L). DBT sponsored National conference on Biology and Medicine organized by the Department of Zoology & Human Genetics and Molecular Biology held on 07-08 February 2019 at Bharathiar University, Coimbatore.
24. M.Padma, **S.Ganesan**, T.Jayaseelan, S.Azhagumadhavan, P.Mani. Phytochemical Studies and GC–MS analysis of bioactive compounds present in ethanolic leaves extract of *Silyum marianum* (L). DBT sponsored National conference on Biology and Medicine organized by the Department of Zoology & Human Genetics and Molecular Biology held on 07-08 February 2019 at Bharathiar University, Coimbatore.
25. **Ganesan S.** Imposing oxidative stress in 3t3 L1 adipocytes and molecular dissection of senescence and insulin resistance mechanism. DBT sponsored National conference on Biology and Medicine organized by the Department of Zoology & Human Genetics and Molecular Biology held on 07-08 February 2019 at Bharathiar University, Coimbatore.
26. Azhagumadhavan S and **Ganesan S.** HPLC analysis of rhizome extract of plant *Costus spicatus* – International Conference on Environment and Health, at the Department of Zoology, Jamal Mohamed College, Tiruchirappalli during 25<sup>th</sup> January 2019.
27. Azhagumadhavan S, Vinotha P, Uma V and **Ganesan S.** Antidiabetic effect of ethanol extract of *Costus spicatus* Jacq. in rhizome extract in Streptozotocin induced Diabetic Rats – Pancreas histological study. International Conference on Innovative research in Biological Sciences, at the Department of Zoology, P. M. T. College, Melaneelithanallur during 9<sup>th</sup> January, 2019.
28. **Ganesan S,** Pollution exposure elicited p53-mediated aerophilous stress and polymer injury in blood cells of genus *Tilapia*
29. sp Oxidative. National Conference on Emerging Trends in production of Biofuels and their Impact on Global Economy held on 27-28 July 2018 at CHRIST University, Bangalore.
30. Azhagumadhavan S and **Ganesan S.** Hepatoprotective and antidiabetic effect of *Costus spicatus* Rhizome extract in normal and streptozotocin-induced diabetic rats – histological study – 2<sup>nd</sup> International Conference on Recent Trends in Microbiology, at the Department of Microbiology, Alagappa University, Karaikudi during 11-12, 2018.
31. Padma M, Mani P and **Ganesan S.** Identification of Chromosomal abnormalities in Colorectal cancer patients of Thanjavur population – National Conference in recent advances in modern biology and rural development, at the Department of Botany and Microbiology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 17-18<sup>th</sup> October 2017.
32. Babu B and **Ganesan S.** Modulation of MDR1, MRP1, LRP and BCRP expression using management in ADRIAMYCIN-treated HepG2 cells in *In vitro* - National Conference in recent advances in modern biology and rural development , at the Department of Botany and Microbiology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 17-18<sup>th</sup> October 2017.
33. Azhagumadhavan S, Natarajan P and **Ganesan S.** Antidiabetic and antioxidant properties of *Costus spicatus* rhizomes ethanol extract in Streptozotocin-Induced

- Diabetic Rats - National Conference in recent advances in modern biology and rural development, at the Department of Botany and Microbiology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 17-18<sup>th</sup> October 2017.
34. Sasikala P, Faritha Begam and **Ganesan S**. Identification of Chromosomal abnormalities in Hepatocellular carcinoma patients of Thanjavur population – National Conference in recent advances in modern biology and rural development, at the Department of Botany and Microbiology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 17-18<sup>th</sup> October 2017.
  35. Vasanthakumar S and **Ganesan S**. Anti-proliferative, cytotoxic and apoptotic activity of EpCAM targeted therapy on HepG2 cell line – National Conference in recent advances in modern biology and rural development, at the Department of Botany and Microbiology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 17-18<sup>th</sup> October 2017.
  36. Azhagumadhavan S and **S Ganesan**. Lack of antidiabetic activity of the rhizomes methanol extract of *Costus spicatus* in albino rats - National Conference on Reaching the Unreached through Science and Technology – Concepts, principles and application of Science and Technology for Nation Building organized by ISCA, Coimbatore chapter held at Kongunadu Arts and Science College, Coimbatore during 9<sup>th</sup> -11<sup>th</sup> October 2017.
  37. Pandian Arjun, Samiraj Ramesh, **Sivamani Ganesan**, Ruchi B. Semwal and D. K. Semwal. Plant Tissue Cultures as Sources of Bioactive Compound Production in Important Medicinal Plants - NMPB-Sponsored National Conference on “Recent Advances in Ayurvedic Herbal Medicine - From Source to Manufacturing” Organised by Faculty of Biomedical Sciences, Uttarakhand Ayurved University, Dehradun (15 & 16 September 2017 at CSIR-Indian Institute of Petroleum, Dehradun, UK)
  38. Azhagumadhavan S, Mani P and S Ganesan. GC-MS analysis of bioactive components from the Ethanolic leaf extracts of *Costus spicatus* - International Conference on Environment, Genes, Health & Diseases **EGHD-2017**, at the Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore during 22-24<sup>th</sup> August 2017.
  39. Babu B, R. Damodaran, Mani P and S Ganesan. Improving the efficacy of the anti-cancer drug by inhibiting the ABC transporter proteins using ABC inhibitors in breast And liver cancer cells - International Conference on **EGHD-2017**, at the Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore during 22-24<sup>th</sup> August 2017.
  40. Ganesan S. Evaluation of accelerated cellular senescence in Mesenchymal stem cells isolated from human bone Marrow, adipose tissue, umbilical cord blood and Wharton’s jelly - International Conference on **EGHD-2017**, at the Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore during 22-24<sup>th</sup> August 2017.

41. P Mani and S.Ganesan. Hypoglycemic and antihyperlipidemic potentiality of *Astercanthalongifolia*(l.) Nees against streptozotocin (stz) Induced diabetics in rats - International Conference on **EGHD-2017**, at the Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore during 22-24<sup>th</sup> August 2017.
42. P Mani and S.Ganesan. Green synthesis of silver nanoparticles from ethanolic Seed extract of *acranythes aspera* (Linn.) And its anti-inflammatory Activities - International Conference on **EGHD-2017**, at the Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore during 22-24<sup>th</sup> August 2017.
43. Muthu D, Vasanthakumar S and Ganesan S. 3D Models In Cancer Research And Drug Discovery - International Conference on **EGHD-2017**, at the Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore during 22-24<sup>th</sup> August 2017.
44. Padma M, Mani P and S Ganesan. Identification of chromosomal abnormalities in Colorectal cancer patients of Coimbatore population - International Conference on **EGHD-2017**, at the Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore during 22-24<sup>th</sup> August 2017.
45. Sasikala P and S Ganesan. Identification of chromosomal abnormalities in Hepatocellular carcinoma patients of Coimbatore - International Conference on **EGHD-2017**, at the Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore during 22-24<sup>th</sup> August 2017.
46. Vasanthakumar S, Muthu D and Ganesan S. Anti-proliferative, cytotoxic and apoptotic activity of EpCAM targeted therapy on hepatocellular carcinoma - International Conference on **EGHD-2017**, at the Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore during 22-24<sup>th</sup> August 2017.
47. Vasanthakumar S, Natarajan P and S. Ganesan. "Selective Inhibition Of Cancer Stem Cells In Liver Cancer" - National Conference on Healthcare and Biotechnology in India: Emerging Trends and Challenges **HBIETC-2017**, at the Department of Zoology and Biotechnology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 17-18<sup>th</sup> August 2017.
48. Babu B, Mani P, Arjun P and S. Ganesan. Increasing the efficacy of doxorubicin in breast cancer Cells using nelfinavir by targeting multidrug resistance Mechanisms - National Conference on **HBIETC-2017**, at the Department of Zoology and Biotechnology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 17-18<sup>th</sup> August 2017.
49. Hemalatha P, Ganesan S and R Damodaran. Screening of phytochemicals and anticancer activity of *Annona squamosal*. Extracts - National Conference on **HBIETC-2017**, at the Department of Zoology and Biotechnology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 17-18<sup>th</sup> August 2017.
50. Padma M, Kaleeswaran B and S Ganesan. Identification of chromosomal abnormalities in Colorectal cancer patients of Coimbatore population - National Conference on

**HBIETC-2017**, at the Department of Zoology and Biotechnology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 17-18<sup>th</sup> August 2017.

51. Sasikala P and S Ganesan. Identification of chromosomal abnormalities in Hepatocellular carcinoma patients of Coimbatore Population - National Conference on **HBIETC-2017**, at the Department of Zoology and Biotechnology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 17-18<sup>th</sup> August 2017.
52. Punithavathi M D, Kaleeswaran B and Ganesan S. Resveratrol prevents oxidative stress-induced Senescence by activating the p53 signalling pathway in Cultured mouse pre-adipocytes (3t3 11) cell line - National Conference on **HBIETC-2017**, at the Department of Zoology and Biotechnology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 17-18<sup>th</sup> August 2017.
53. H. Faritha Begam and Ganesan S. Oxidative Stress Role In Diabetes - National Conference on **HBIETC-2017**, at the Department of Zoology and Biotechnology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 17-18<sup>th</sup> August 2017.
54. Bhuvaneshwari S, Ganesan S, R Damodaran. Genotoxic effect and oxidative stress biomarkers in *Oreochromis mossambicus* exposed to chromium VI - National Conference on **HBIETC-2017**, at the Department of Zoology and Biotechnology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 17-18<sup>th</sup> August 2017.
55. Azhagumadhavan S, Kavitha P, Kaleeswaran B and Ganesan S. Evaluation of anti-diabetic effects of *costus spicatus* Leaves extracts in streptozotocin-induced diabetes in Albino rats - National Conference on **HBIETC-2017**, at the Department of Zoology and Biotechnology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 17-18<sup>th</sup> August 2017.
56. T.Jayaseelan, R.Damodaran, S. Ganesan, P. Mani. Evaluation of DNA damage of the *Oreochromis mossambicus* Exposed to textile dyeing effluent using comet assay - National Conference on **HBIETC-2017**, at the Department of Zoology and Biotechnology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 17-18<sup>th</sup> August 2017.
57. P. Arjun, S. Ramesh and S. Ganesan. Isolation, identification and characterization of novel Bioactive molecules through HPLC, LCMS and NMR - National Conference on **HBIETC-2017**, at the Department of Zoology and Biotechnology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 17-18<sup>th</sup> August 2017.
58. Muthu D, Damodaran R and Ganesan S. Evaluation of Chemotherapeutic Potential of Natural Extracts Using 3D Models of Liver, Breast and Colon Cancers - National Conference on Trends in Healthcare and Biotechnology: Opportunities and Challenges **THBOC-2016**, at the Department of Zoology and Biotechnology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 22-23<sup>rd</sup> January 2016.
59. Babu B, Natarajan P and Ganesan S. Inhibition of ABC transporters protein in Breast and Liver Cells using ABC Inhibitors to improve the response of Anticancer Drugs -

National Conference on **THBOC-2016**, at the Department of Zoology and Biotechnology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 22-23<sup>rd</sup> January 2016.

60. Vasanthakumar S, Kaleeswaran B and Ganesan S. Selective Inhibition of Cancer Stem cells in Liver Cancers using 3D Spheroid model - National Conference on **THBOC-2016**, at the Department of Zoology and Biotechnology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 22-23<sup>rd</sup> January 2016.
61. Senthilkumar S and Ganesan S. Oxidative Stress in Diabetes - National Conference on **THBOC-2016**, at the Department of Zoology and Biotechnology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 22-23<sup>rd</sup> January 2016.
62. P. Sasikala, P. Mani, Ganesan S. Identification of Genetic Alterations In Hepatocellular Carcinoma Patients - National Conference on **THBOC-2016**, at the Department of Zoology and Biotechnology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 22-23<sup>rd</sup> January 2016.
63. M. Padma and Ganesan S. Molecular Screening of Novel Marker Chromosome and Mutational analysis of Colorectal Cancer - National Conference on **THBOC-2016**, at the Department of Zoology and Biotechnology, A.V. V. M. Sri Pushpam College (Autonomous), Poondi, Thanjavur during 22-23<sup>rd</sup> January 2016.
64. Muthu D, Vasanthakumar S & S Ganesan. ***“Evaluation of Chemotherapeutic Potential of Natural Extracts Using 3D Models of Liver, Breast And Colon Cancers”***- National Conference on Phytochemicals in Medicinal Plants and Food”, at the Department of Biochemistry, Bharathidasan University Constituent College for Women, Orathanadu during 31<sup>st</sup> July and 01<sup>st</sup> August 2015.
65. Vasanthakumar S, Muthu D & S Ganesan. ***“Evaluation of Therapeutic Effect of Epigallocatechin-3- Gallate on HepG2 Cell Line”*** - National Conference on Phytochemicals in Medicinal Plants and Food”, at the Department of Biochemistry, Bharathidasan University Constituent College for Women, Orathanadu during 31<sup>st</sup> July and 01<sup>st</sup> August 2015.
66. S. Ganesan & B. Kaleeswaran. ***“Oxidative stress in Oreochromis mossambicus as a biomarker of exposure to environmental pollution”*** - National conference on Innovations, implementation & controversies of Animal Biotechnology (NCIICAB-2014), 20<sup>th</sup> & 21<sup>st</sup> March 2014 at Bharathidasan University, Trichy.
67. V. Mohan, M. Finny, K. Gokulakrishnan, S. Ganesan, S. Aravind, C. Satishkumar, P. Prabhu, D. Prabhu, M. Balasubramanyam. ***“Association among short telomeres, mitochondrial DNA depletion and hypoadiponectinemia in patients with Type 2 diabetes”*** - Novel basic science of diabetic complications. 2009 International Diabetes Federation - communications@idf.org - 166 Chausse de la Hulpe, B-1170 Brussels, Belgium. 06-Dec-2011.

68. P. Prabu, M. Finny, **S. Ganesan**, C. Satishkumar, V. Mohan, M. Balasubramanyam. *"Novel Link between Oxidative Stress-induced Accelerated Senescence and Insulin in Resistance in Adipocytes"*. International Conference on New Frontiers in Diabetes Research, At AP, August 2010.
69. **Ganesan S**, Aafreen N A, Mazher Sultana, Krishnamoorthi S and Rubabanjum K M. *"Assessment of environmental stress by Comet assay for evaluation of Genotoxic impact in Channa punctatus from polluted water of Chrompet Lake, Chennai, India"* - "XXIII Annual Conference of National Environmental Science Academy: Global Warming and Human Health" held during 27<sup>th</sup> -29<sup>th</sup> December 2010 at New Delhi.
70. Vasanthi R, Mazher Sultana, **Ganesan S** and Aafreen N A. *"Ultramorphological and Histopathological studies in liver and Kidney of Tilapia mossambicus collected from Chrompet Lake, Chennai, India"* - "XXIII Annual Conference of National Environmental Science Academy: Global Warming and Human Health" held during 27<sup>th</sup> -29<sup>th</sup> December 2010 at New Delhi.
71. Mazher Sultana, Suresh M, Vasanthi R, Indra V and **Ganesan S**. *"Evaluation of Ennore Creek waters using the Comet assay in Therapon jarbua"* - "XXIII Annual Conference of National Environmental Science Academy: Global Warming and Human Health" held during 27<sup>th</sup> -29<sup>th</sup> December 2010 at New Delhi.
72. **Ganesan S**, Indra V, Krishnamoorthy S, Aafreen Naresh A, Saravanan P, Sajad Ali & Mazher Sultana. *"Pollution exposure induces p53-mediated oxidative stress, DNA damage and antioxidant enzyme gene expression in tilapia (Oreochromis mossambicus) blood cells"* - UGC National Conference on "Advances in Environmental Research: an Interdisciplinary Approach" (AERIA'11) held during 11<sup>th</sup> and 12<sup>th</sup> March 2011 at Annamalai University, Annamalainagar.
73. Mazher Sultana, **Ganesan S**, Krishnamoorthy S, Saravanan P, Aafreen Nawresh A, Sajad Ali & Indra V. *"Antioxidant enzymes in Tilapia (Oreochromis mossambicus) as Biochemical indicators of aquatic pollution from Chrompet Lake at Chennai, India"* - "AERIA'11" held during 11<sup>th</sup> and 12<sup>th</sup> March, 2011 at Annamalai University, Annamalainagar.
74. Indra V, **Ganesan S**, Mazher Sultana, Ramanibai R & Karthikeyan J. *"Heavy metal distribution and accumulation in the river pallor at Vellore DT, Tamil Nadu"* - "AERIA'11" held during 11<sup>th</sup> and 12<sup>th</sup> March 2011 at Annamalai University, Annamalainagar.
75. Indra V, **Ganesan S**, Ramanibai R & Mazher Sultana. *"Water quality studies with reference to microbial contamination in the river pallar at Vellore DT, Tamil Nadu"*

- “AERIA’11” held during 11<sup>th</sup> and 12<sup>th</sup> March 2011 at Annamalai University, Annamalainagar.
76. Krishnamoorthi S, **Ganesan S**, Gopal C & Mazher Sultana. **“Studies on growth and survival of *Marsupenaeus japonicus* (Bate, 1888) Zoea larva fed with different microalgae such as – *Chaetoceros sp* and *Skeletonema sp*”**- “AERIA’11” held during 11<sup>th</sup> and 12<sup>th</sup> March 2011 at Annamalai University, Annamalainagar.
  77. Saravanan P, **Ganesan S**, Aafreen Nawresh A, Mazher Sultana, Sajad Ali and Indra V. **“GLUT4 protein expression in muscles of *Channa clarias* and *Channa batrachians* collected from Coovam River at Chennai, India”** - “AERIA’11” held during 11<sup>th</sup> and 12<sup>th</sup> March 2011 at Annamalai University, Annamalainagar.
  78. Mazher Sultana and S **Ganesan**. **“Ultramorphological and Histopathological studies of Gill alteration in *Tilapia (Oreochromis mossambicus)* from polluted Chrompet Lake, Chennai, India”** - Greenomics “International Conference on The Key role of Life sciences of the Sustainable Development in the World” 30<sup>th</sup> & 31<sup>st</sup> August 2010 at Hindustan University, Chennai.
  79. S. Finny Monickaraj, **S. Ganesan**, C. N. Sathish Kumar, P. Prabhu, V. Mohan & M. Balasubramanyam. **“Novel link between Oxidative Stress-Induced senescence and Insulin resistance in Adipocytes”** - International Conference on “New Frontiers in Diabetes Research” Sri Sathya Sai Institute of Higher Learning, 13<sup>th</sup> & 14<sup>th</sup> August 2010, Andhra Pradesh.
  80. **Ganesan S**, Aafreen Nawresh A, Selvi Padmini V, Vasanthi V & Mazher Sultana. **“Physiological regulation of glucose transporter (*GLUT4*) protein content in *Tilapia (Oreochromis mossambicus)* skeletal muscle”** - National Seminar on Advances in Biological Sciences (ABS – 2010) held during 22<sup>nd</sup> & 23<sup>rd</sup>, January – 2010 at Department of Zoology, Annamalai University, Annamalainagar.
  81. Vasanthi R, **Ganesan S** & Mazher Sultana. **“Cytotoxicity of the Plant extracts – common Milkweed *Calotropis gigantean*”** - National Seminar on Advances in Biological Sciences (ABS – 2010) held during 22<sup>nd</sup> & 23<sup>rd</sup>, January – 2010 at Department of Zoology, Annamalai University, Annamalainagar.
  82. Gokulakrishnan K, Indulekha K, **Ganesan S**, Anuradha S and Mohan V. **“Adiponectin and Carotid Intimal Medial Thickness in subjects with and without Glucose Intolerance”** – RSSDI -2009 – 37<sup>th</sup> National Meeting of the Research Society for the study of the Diabetes in India, at Ahmedabad.

#### **Posters presented in National & International Conferences/Symposiums:**

1. T. Jayaseelan, R. Damodaran, **S. Ganesan**, P. Mani. ***Biochemical characterization, 16SrRNA sequencing of various Bacteria from textile dye effluent and its application.*** DBT sponsored International conference on Frontiers in Chronic Disease held on 19th February 2020 at Bishop Heber College (Autonomous), Tiruchirappalli.

2. Balakumar M, Prabhu D, **Ganesan S**, Sathishkumar C, Mohan V, and Balasubramanyam M. "*Metabolic memory- benefits of early glycemic control by Insulin on hyperalgesia in diabetic rats*" - 98<sup>th</sup> Indian science Congress 2011, Chennai.
3. **Ganesan S** & Mazher Sultana. "*MyoD protein expression in muscles and single cell gel electrophoresis (Comet) assay in liver cells of Tilapia mossambicus*" - **Greenomics** "International Conference on The Key role of Life sciences of the Sustainable Development in the World" 30<sup>th</sup> &31<sup>st</sup> August 2010 at Hindustan University, Chennai.
4. Suresh M, **Ganesan S**, Aafreen N A and Mazher Sultana. "*The Comet assay for evaluation of genotoxic impact in Oreochromis mossambicus from polluted water of Korattur Lake, Chennai, India*" - Greenomics "International Conference on The Key role of Life sciences of the Sustainable Development in the World" 30<sup>th</sup> &31<sup>st</sup> August 2010 at Hindustan University, Chennai.
5. Balasubramanyam. J, Balakumar.M, Prabhu.D, **Ganesan S**, Grover.M, Tatu.U, Mohan.V and Balasubramanyam.M. "*Elevated retinal Binding Protein-4 (RBP-4), A Novel Adipokine Biomarker in Insulin Resistance and Type 2 Diabetes*" - 2<sup>nd</sup> Indian Youth Science Congress. June 26-28, 2010, SRM University, Chennai.
6. **Ganesan S**, Aafreen N.A, Vasanthi R & Mazher Sultana. "*Barley frost resistance Gene (COR14-33b) analysis and simulation by Bioinformatics tools*" - Bioinformatics indica 2010, DBT-BIF Centre for Bioinformatics, University of Kerala, Keralam during January 11<sup>th</sup> to 13<sup>th</sup> 2010.
7. Dhandayuthapandi K, Selvipadmini V, **Ganesan S**, Indira V & Mazher Sultana. "*Bioinformatically Designed E. coli Plasmid Vector for Bioremediation of Organophosphate*" - Bioinformatics indica 2010, DBT-BIF Centre for Bioinformatics, University of Kerala, Keralam during January 11<sup>th</sup> to 13<sup>th</sup> 2010.
8. **Ganesan S**, Rameshthangam P and Mazher Sultana. "*Physicochemical and Microbiological water quality of Chrompet Lake in Chennai, India*" - "International Colloquium on Emerging Biotechnologies in agriculture, Animal Health and Productivity" (ICEB'09), Alagappa University, Karaikudi, India, 2009.

### Academic Projects:

- ✚ **M.Phil**, Project work in "Studies on the Biodiversity of Soil insects and protein profile of *Opatrum sp.* and *Probergrothious sanguinolent*". (2006-2007)
- ✚ **M.Sc.**, "A Study on the Diversity in Domain Architecture of Ferritins" - an *in silico* approach. (2004-2006)
- ✚ **B.Sc.**, "Biological Treatment of Textile Dye Effluent employing Egg Waste". (2001-2004)

### Awards and Honors:



- ✚ Awarded as “**Best Young Faculty Award -2019**” by Novel Research Academy, Pondicherry.
- ✚ Selected as '**Science Communicator**' in the 104th Indian Science Congress held at Shree Venkateshwara University, Tirupathi during January 2017.
- ✚ Awarded as **Research Associate in Indian Council for Medical Research (ICMR)**, Government of India (2012-2013).
- ✚ **Gold Medal** for securing **the first position** in **M.Sc.**, (2006).
- ✚ **Best Student Award** was awarded at Thiagarajar College for academic performance in **M.Sc.**
- ✚ **Best Poster Award:** Shiny A, **Ganesan S**, Anand C, Abirami G, Aravind S, Nagaraj M, Madhulikha D, Mohan V and Balasubramanyam M. Mitochondrial dysfunction and Oxidative stress contribute to hyperinsulinemia-induced migration and proliferation in Vascular Smooth Muscle Cells. "10th International Conference on Free Radical Research" (SFRR 2011) in Chennai, India, from January 9th-11th, 2011.
- ✚ **3<sup>rd</sup> prize for the poster presentation:** Finny Monickkaraj S, **Ganesan S**, Aravind S, Nandhini P, Mohan V & M.Balasubramanyam. Oxidative Stress Induced Accelerated Senescence and Telomere Shortening in Adipocytes. 37<sup>th</sup> National Meeting of the Research Society for the study of the Diabetes in India, 2009 at Ahmedabad.
- ✚ **First prize** in Coastal Cleaning Day organization by **SACEP**, United National Environmental Program (UNEP), Indian Coast Guard (ICG), and National Institute of Ocean Technology (NIOT) (Sep 16, 2006)
- ✚ **First Place** in State Level Inter Collegiate Literary & Cultural Fete for **Poster Presentation** organized by the Department of Biotechnology, Ayya Nadar Janaki Ammal College (ANJAC) Sivakasi, on 22<sup>nd</sup> September 2004.
- ✚ **First Place** in State Level Inter Collegiate Literary & Cultural Fete for **Dissection** Competition organized by the Department of Biotechnology, Ayya Nadar Janaki Ammal College (ANJAC) Sivakasi, on 22<sup>nd</sup> September 2004.
- ✚ **Second Place** in State Level Inter Collegiate Literary & Cultural Fete for Quiz Competition organized by the Department of Biotechnology, Ayya Nadar Janaki Ammal College (ANJAC) Sivakasi, on 22<sup>nd</sup> September 2004.

### **Responsibility at AVVMSPC**

Library Committee (2015-2016)  
 Training & Placement Cell (2016-2017)  
 Student's Welfare Committee (2017-2019)  
 Magazine Committee (2018 – till date)  
 IQAC member (2018- till date)  
 MOOC Coordinator (2021 – till date)  
 OBC Cell (2021 – till date)

### **Work/Project Involvement:**

- Work involvements in the project entitled "*Accelerated ageing in adipocytes – Role of glycemic variability and Oxidative stress*" from the Council for Scientific and Industrial Research (CSIR), Government of India.
- Work involvements in the project entitled "*Does oxidation/inflammation impose accelerated cellular Senescence in adipocytes and modify their secretory profile and function*" from Department of Biotechnology (DBT), Government of India.

### **Training/Workshop Attended:**

1. Participated in NABARD sponsored workshop on "**Applications of Statistical tools in Social Science Research**" held on 30<sup>th</sup> September 2022 at PG and Research department of Economics, A.V.V.M. Sri Pushpam College (Autonomous), Poondi, Thanjavur.
2. Participated in Two days NAAC sponsored National workshop on "**Preparation of Roadmap for quality assurance in higher education through NAAC assessment and accreditation**" held on 28<sup>th</sup> and 29<sup>th</sup> August 2022 at Erode Arts and Science College (Autonomous), Erode.
3. Participated in National workshop on "**Woody Plant Tissue Culture**" held on 3<sup>rd</sup> & 4<sup>th</sup> March 2022 at The Gandhigram Rural Institute, Gandhigram.
4. Participated in two days workshop on "**Enriching research and publication quality**" held on 14<sup>th</sup> & 15<sup>th</sup> March 2022 at A.V.V.M. Sri Pushpam College (Autonomous), Poondi, Thanjavur.
5. Participated in TNSCST & NCSTC sponsored workshop on "**Biomedical Waste Management**" held on 16<sup>th</sup> December 2021 at Bishop Heber College (Autonomous), Tirruchirappalli.
6. Participated in National Workshop on "**Snakes, Snake bites and Treatment**" held on 17<sup>th</sup> & 18<sup>th</sup> November 2021 at Government Arts College (Autonomous), Kumbakonam.
7. Participated in Four days Webinar on "**An effective Research Paper Writing Skills**" held on 13<sup>th</sup> -16<sup>th</sup> April 2020 at Bhagwan Mahavir University, Surat, Gujarat.
8. Participated in "**State level workshop on Question paper setting**" held on 03<sup>rd</sup> January 2020 at A.V.V.M. Sri Pushpam College (Autonomous), Poondi, Thanjavur.
9. Participated in **Science Academies' Lecture workshop on "Bioprospecting and Conservation of Bioresources"** held on 19<sup>th</sup> & 20<sup>th</sup> March, 2019 at PG and Research department of Botany & Microbiology, A.V.V.M. Sri Pushpam College (Autonomous), Poondi, Thanjavur.
10. Participated in "**National Workshop on Creating Insight on Poly Cystic Ovarian Disease & Smart Health Management Among Young Women – (CIPCOD-2017)**" held on 25<sup>th</sup> September 2017 at Bon Secours College for Women, Thanjavur
11. Participated in "**National seminar on Bioremediation of Hydrocarbon polluted soil and workshop on Vermicomposting**" held on 18<sup>th</sup> September 2017 at Idhaya College for Women, Kumbakonam.
12. Participated in "**National training programme on Biodiversity of Marine Molluscs (BOMM-2014)**" held on March 13 & 14, 2014 at Annamalai University.

13. Participated in the “**9<sup>th</sup> Indian Fisheries Forum**” held on 19-23 December 2011 at Chennai.
14. Attended a seminar on “**Cell Biology Techniques**” conducted by Lonza on 25<sup>th</sup> April 2011 at Bangalore.
15. Attended a seminar on “**xSAMPLES**” 2011 conducted by Luminex held on 10<sup>th</sup> Feb’2011 at Chennai.
16. Participated in the Third conference of Society for Toxicologic Pathology in India “**Continuing Education in toxicologic Pathology-Reproductive System**” held on 29-31, October 2010 at Bangalore.
17. MDRF-ICMR Sponsored Workshop on “**Techniques in Genomics of Type 2 Diabetics**” on February 18 – 23, 2010 at MDRF, Chennai.
18. Participated in DARWIN-200: The Bicentennial birth anniversary celebration of Charles Darwin “**Darwinism - the other facets of life**” organized by University of Madras & TNSCFST on 20<sup>th</sup> Jan 2010 at Chennai.
19. Attended a “Seminar cum Workshop on “**Wound Healing Assay**” using the new ECIS technology on 22<sup>nd</sup> Sep 2009 at the TICEL Bio-Park, Chennai.
20. Participated in a State level Workshop on “**Nono quantification of Biomolecules using NanoVue**” conducted on 27 & 28 August 2009, at Hindustan College of Arts & Science, Chennai.
21. MDRF-ICMR Sponsored Workshop on “**Techniques in Genomics in Relation to Diabetics & Related Disorders**” on Jan 03- 09 (2009) at MDRF, Chennai.
22. Attended a seminar on “**Cell Biology**” conducted by Lonza on 19<sup>th</sup> Nov 2008 at Bangalore.
23. Participated in a hands-on workshop on “**Confocal Microscopy**” (Slit Disc Scanning Unit) conducted by Olympus on 4<sup>th</sup> Feb 2009 at IIT Madras.
24. MDRF-UAB (University of Alabama, Birmingham) “**National Seminar on Prevention of Non-Communicable Diseases**” sponsored by National Institutes of Health, USA and Madras Diabetes Research Foundation (MDRF) 2008.
25. Participated in a National Symposium on “**Recent Trends in Insect Pest Management**” held on 1&2 February 2007, at ERI - Loyola College, Chennai.
26. Participated in a “**National Science Day Celebration**” held on 28<sup>th</sup> February and 1<sup>st</sup> March 2006, at Thiagarajar College, Madurai.
27. Workshop on “**IPR and Patent Awareness**” at Ayya Nadar Janaki Ammal College (ANJAC), Sivakasi on 16<sup>th</sup> September 2004.
28. “**Genetic Engineering & Plant Tissue Culture and Animal Cell Culture**” - The American College (2004) at Madurai.
29. “**Clinical Laboratory Technology (CLT)**” – The American College (2003-2004) at Madurai.
30. Department of women and child development, Food & Nutrition Board (Ministry of HRD) Training program of “**Domestic Preservation of Fruits and Vegetable Nutrition**” in 2002 at Madurai.

### **Research Skills**

## A. Tissue Culture:

- ✚ **Primary Cell Culture:** Human Skeletal Muscle Biopsy, Human Adipocyte Biopsy, Human Retinal Endothelial Cell Line (HREC), Lymphoblast Cell Line (LCL), Lymphocyte and Monocyte, Bone Marrow, Human Liver, Human Wharton's Jelly.
- ✚ **Cell Line Handled:** L6 Skeletal muscle cells, 3T3-L1 adipocytes, PC-1, RINm5F, THP, Jurkat T cells, HEK Cells, VSMC, ARPE, C2C12, HepG2, A431.

## Animal study:





- ✚ Whole body perfusion
- ✚ Dissect out Subcutaneous (SC) and Visceral Fat from animals
- ✚ Isolation of Macromolecules from various tissues & gene expression
- ✚ Intravenous Blood collection
- ✚ Dosing – Oral and IP injection

## B. Laboratory Techniques:

- ✚ Western Blot, Southern Blot
- ✚ DNA, RNA and Protein isolation from various tissues and cell lines.
- ✚ Cloning and expression in the eukaryotic system
- ✚ Radiolabelling and isotope techniques
- ✚ Semi-quantitative RT-PCR/ Real-time PCR (ABI 7000)
- ✚ Polymerase Chain Reaction (PCR) & Restriction Fragment Length Polymorphism (RFLP)
- ✚ 2-D Gel Electrophoresis
- ✚ Fluorescence-based measurement of  $iCa^{2+}$ ,  $iROS$ , and membrane potential (Fluorescence Spectrophotometer - Horiba) and Luminometry
- ✚ UV Spectrophotometry
- ✚ ELISA
- ✚ Scintillation Counter (Beckman)
- ✚ Bioanalyzer (6100)
- ✚ Confocal Microscopy (Carl Zeiss)
- ✚ Immunohistochemistry,
- ✚ Immunocytochemistry
- ✚ Flow Cytometry (Aria II BD)

## C. Software Knowledge:

- ✚ Comet assay for DNA damage

-  FISH Imager for cell lines observation
-  Image J for measurement of Molecular base pair
-  Debut for the capture of cell line
-  Statistical analysis using SPSS