

Faculty Profile



Dr.A.Swarnambiga
Associate Professor/BME
Bioinformatics(CoE)

HIGHLIGHTS:

- Number of Journal Publications: 9
- H-Index: 5
- Project Funding Received: 3,50,000
- Patents Published: 7
- Patents Granted: 2

PROFESSIONAL LINKS:

- Scopus ID: 55932969300
- Scopus Link:
<https://www.scopus.com/authid/detail.uri?authorId=55932969300>
- Google Scholar ID:
<https://scholar.google.ca/citations?user=V7M3nM4AAAAJ&hl=en>
- Anna University Faculty ID: 280180
- AICTE Faculty ID: 1-27109498121
- Anna University Supervisor ID: 2540050
- LinkedIn: <https://www.linkedin.com/in/swarnambiga-ayyachamy-7aa08a144/>
- Teaching Experience till date: 10 Years 1 Months
- Industrial Experience: Nil

INTERNATIONAL EXPOSURE:

International Conferences and Recognition:

- Presented cutting-edge research at global platforms such as the SPIE Medical Imaging Conference (USA) and Europe 2023 Congress (Europe).
- Ranked 10th in the HEROHE ECDP2020 Challenge, part of the European Congress on Digital Pathology.

Global Consultancy Projects:

- Led consultancy projects for PMX Inc. (USA)

AREA OF SPECIALIZATION:

- Bioinformatics
- Imaging Genomics
- Computational and System Biology

SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:

SPONSORED RESEARCH

1. Travel Grants

- Europe Congress 2023: ₹3,00,000, funded by PMX Inc.
- SPIE 2019: 1,25,000 Funded by IIT Madras (IITM).

2. 10AciousX : (2024)

- Amount: ₹50,000.

PATENTS PUBLISHED/GRANTED:

PUBLISHED

S.No	Title	Application No.
1	Nasogastric Insertion of Tuboscope with Virtual and NBSP; Guidance	202341061520
2	Graviola(Annona Muricata) nanoparticle derived anti-inflammatory gel	202341061526A)
3	Tridax Daisy nanoparticle derived anti-bacterial gel composition	202341061515A)
4	Nanoparticle based gel formulation of turmeric and clove for enhanced topical delivery and anti-inflammatory	202341061514A)
5	Garcinia Indica Nanoparticle Derived anti-Inflammatory Gel	202341061512A)
6	Antimicrobial nanaogel with bentonite clay and rosarubiginosa extract	202341061518A)
7	Oryza and Biotic milk infusion nanogel for skin revitalizing	202341061510A)

Design Patents Granted

1. Safe Travel Urobag for Elderly People-410952-001(DeignNo.)
 - Granted Date: 19/3/24
2. Double Barred Ostomy Refeeding Prosthesis-411008-001(Design No.)
 - Granted Date: 19/3/24
3. Visual Aided Intubation of Endotracheal Tube
 - Status: Waiting for Grant.

ACHIEVEMENTS AND AWARDS:

1. Thomson Reuters Highest Impact Factor:

- 2 Publications in *Annals of Oncology* (Impact Factor: 50).

2. HEROHE ECDP 2020 Challenge:

- Ranked 10th in a grand challenge focused on high-sensitivity HER2-positive BC identification.

SPECIAL SESSIONS DELIVERED:

1. SPIE Medical Imaging Conference (2019)
2. Europe Congress (2023)

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

SPIE Medical Imaging Conference (2019)

- Presented multiple papers, including topics on ResNet-18 for medical image retrieval and clinical analysis of tumors.

European Congress on Digital Pathology (ECDP 2020)

- Participated and competed in challenges related to HER2-positive BC identification.

OTHER DETAILS (If any):

1. Alumni of IITM
2. Alumni of CEG(Guindy)

Editor Roles:

- Journal of Health and Medical Informatics.
- Journal of Health and Medical Economics.
- Journal of Rough Sets and Data Analysis.

Research Supervisor:

- Anna University Chennai (2014–Present).