

**CURRICULUM VITAE**  
**Nagarajan A, M.Sc., Ph. D**

Professor and Director (Research& Development)  
Karpagam College of Pharmacy  
Coimbatore-641 032  
Mobile No.: (91)9443419476  
E-mail: naga63@yahoo.com

**EDUCATIONAL PROFILE:**

SI. No.	Degree	Year of Passing	University	Subjects
1	PhD	1992	Bharathidasan	Organic Chemistry
2	MSc	1985	Bharathiyar	Chemistry
3	BSc	1983	Madras	Chemistry

**Academic/Research Experience/Employment**

From	To	Name of Organization	Position held
09/2020	present	Karpagam College of Pharmacy	Professor & Director-Research
09/2012	05/2020	PSG College of Pharmacy	Professor
11/2011	08/2012	SASTRA University	Associate Professor
12/2010	11/2011	SYNTHITE & AVT Natural Products	General Manager & Consultant
02/2007	11/2010	Connexios Life Sciences P Ltd Bangalore	Head-Discovery Chemistry
09/2004	02/2007	General Electric Company	Lead Scientist
02/2003	08/2004	SPIC Pharma and Science Foundation	Senior Scientist
02/2002	01/2003	Natl. Chung Cheng Univ., Taiwan	Post Doctoral Fellow
01/2000	11/2001	Kangwon Natl. University, S. Korea	Post Doctoral Fellow
10/1998	09/1999	Bharathidasan University	Pool Officer
08/1997	07/1998	Natl. TsingHua University, Taiwan	Post Doctoral Fellow
08/1994	07/1997	Natl. School of Biol. Sciences, Mexico	Post Doctoral Fellow & Assoc. Professor

**Honors/Awards received:**

College Chess Champion (1983)  
CSIR-UGF JRF Awardee (1987)  
CSIR Pool officer Awardee (1998) School  
First rank holderin SSLC (1978).  
College First rank Holder in B.Sc.(1983)  
College Third rank in M.Sc, (1985)

**Professional Affiliations:** American Chemical Society  
Co-Ordinator-Research Board, Karpagam College of Pharmacy, Coimbatore  
Editorial Board Member-Computational Chemistry;  
Editorial Board Member-Journal of Natural Remedies

Reviewer for many scientific journals

**Top 25 Hottest articles in Chemistry-published in Carbohydrate Research** in October to December 2005- **Carbohydrate Research** 2005, 340, 2457-2468.

**Number of Research Publications: 26**

**Top 10 publications:**

1. S Mohan, J Dharani, R Natarajan, A Nagarajan. Molecular docking and identification of G-protein-coupled receptor 120 (GPR120) agonists as SARS COVID-19 MPro inhibitors. *Journal of Genetic Engineering and Biotechnology* **2022**, 20 (1), 1-23.
2. Sasikala M, Mohan S, Swarnakumari S, Nagarajan A, Evaluation of the Role of Merremoside from *Ipomoea aquatica* Forsskal hydroalcoholic extract in the downregulation of Inflammatory cytokines, Pgp efflux and ROS species in overcoming MDR in breast cancer, *Asian Pacific Journal of Cancer Prevention*, **2022 (in press)**
3. M Sasikala, S Mohan, S Swarnakumari, A Nagarajan, Isolation and in vivo evaluation of anti-breast cancer activity of resin glycoside merremoside from *Ipomoea aquatica* Forsskal in overcoming multi-drug resistance, *Phytomedicine Plus*, **2022**, Volume 2, Issue 4, 100359.
4. Karuppiah, A., Rajan, R., Ramanathan, M., Nagarajan, A. (2020). 'Cytotoxicity and Synergistic Effect of Biogenically Synthesized Ternary Therapeutic Nano Conjugates Comprising Plant Active Principle, Silver and Anticancer Drug on MDA-MB-453 Breast Cancer Cell Line', *Asian Pacific Journal of Cancer Prevention*, 21(1), pp. 195-204. doi: 10.31557/APJCP.2020.21.1.195
5. Isolation and in silico evaluation of anti diabetic molecules of *Cynodon dactylon* (L.) Hasthi Annapurna V , BabuApoorva, NatesanRavichandran, KallurPurushothamanArun, PemaiahBrindha, SethuramanSwaminathan, MahadevanVijayalakshmiand Arumugam Nagarajan -*Journal of Molecular Graphics and Modelling*, **2013**, 39, 87–97.IF: 2.022
6. Efficient synthesis of enantiomerically pure dihydropyrans Bor-Cherng Hong, Zhong-Yi Chen, Arumugam Nagarajan, KottaniRudresha, Vishal Chavan, Wei-Hung Chen, Yea-Fen Jiang, Shuo-Cang Zhang, Gene-Hsiang Lee and Sepehr Sarshar, *Tetrahedron Letters*, Volume 46, Issue 8, 21 February **2005**, Pages 1281-1285.IF: 2.295
7. Efficient and Stereodivergent Synthesis of Deoxyimino Sugars, Bor-Cherng Hong, Zhong-Yi Chen, Arumugam Nagarajan, KottaniRudresha, Vishal Chavan, Wei-Hung Chen, Yea-Fen Jiang, Shuo-Cang Zhang, Gene-Hsiang Lee, and Sepehr Sarshar, *Carbohydrate Research* **2005**, 340, 2457-2468.IF: 2.148
8. Regio- and Stereoselectivity of Captodative Olefins in 1,3-Dipolar Cycloadditions: A DFT/HSAB Theory Rationale for the Observed Regiochemistry of Nitrones, Rafael Herrera, A.Nagarajan, Miguel A. Morales, Francisco Méndez, Hugo A. Jimenez-Vazquez, L. Gerardo Zepeda, and Joaquin Tamariz, *Journal of Organic Chemistry*, **2001**, 66(4) 1252-1263.IF: 4.638

9. Synthesis of Regioselectively Brominated, Asymmetric Porphyrins via '2+2' Condensation, Nagarajan Arumugam, Chang-Hee Lee, J. Porphyrins and Phthalocyanines, **2002**, 479.IF: 1.364
10. Convenient Route to Super-Expanded Calixpyrroles: Synthesis of Calix[n]furano[m]-pyrroles (n=3,4,6,8 and m = 2,4), A.Nagarajan, Yong-Sung Jang and Chang-Hee Lee, Org.Lett. **2000**, 2 (20) 3115 - 3118.IF: 6.324

### **Number of Patents**

#### **5 granted patents filed for NCE's (three targets)**

1. WO/2012/011125 AGONISTS OF GPR40", JagannathMadanahalliRanganathRao, Nagarajan Arumugam, MohdMudabbir Ansari, Chandrasekhar Gudla, ShanmugamPachiyappan, ManivannanRamalingam, , Jenson George , George Fernanda Arul , Y KenchegowdaBommegowda , Sathesh Kumar Angupillai, RamamoorthyKottamalai, PradeepJidugu and D ShivanageshwaraRao
2. WO 2013128465 A1 Cyclic amide derivatives as inhibitors of 11 - beta - hydroxysteroid dehydrogenase and uses thereof, JagannathMadanahalliRanganathRao, UppalaVenkatesham, Jenson George, George Fernand, SivanageswaraRaoDoppalapudi, G R Madhavan, Nagarajan Arumugam, Mohammed Ansari, K Murugavel, JiduguPradeep, SulthanAllavuddeen, K Vijayaramalingam, Hampelingaiah Shiva Prasad, Augustine Michael Raj, S Gnanavel, RamamoorthyKottamalai, Naresh M P S Babu, BommegowdaYadaganahalliKenchegowda.
3. US 7550607-Method of preparation of heterocyclic molecules with pharmaceutical, pharmaceutical excipient, cosmeceutical, agrochemical and industrial uses- Hong, Borcherng, Chen, Zhong-Yi, Nagarajan, Arumugam, Rudresha, Kottani, Chavan, Vishal P., Sarshar, Sepehr
4. US737517-Polymers, polymer compositions and method of preparationArumugam, Nagarajan, AS, Radhakrishna, Lens, Jan Pleun, Raj, Tilak Sahoo, Binod , Scindia, Subash
5. US7183431-Dihydroxy aromatic compounds and methods for preparationArumugam, Nagarajan, AS, Radhakrishna, Lens, Jan Pleun, Raj, Tilak Sahoo, Binod

### **13. Dissertations supervised:**

#### **4 B.Tech final year projects;**

#### **Ph.D. 1-PhD degree awarded-Acharya Nagarjuna University;**

#### **5 B. Pharm Projects**