

Name: **ANAND RAMAIAN SANTHA SEELA**
Date of Birth: July 18, 1989
City and Country of Birth: Chennai, INDIA
Citizenship: INDIAN
Office Address: 417 E 68th St, Z-2019, New York, NY 10065
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Licenced Physician: Not applicable
Board Certification: Not applicable

Education:

Doctor of Philosophy (PhD) in Biotechnology

Graduate school: Anna University, Chennai
Start date – End date: January 1, 2013 – January 19, 2021
Degree and discipline: PhD in Biotechnology
Place: Chennai

Master of Technology (M.Tech) in Biopharmaceutical technology

Graduate school: Anna University, Chennai
Start date – End date: September, 2010 – May, 2012
Degree and discipline: M.Tech in Biopharmaceutical technology
Place: Chennai

Bachelor of Technology (B.Tech) in Biotechnology

College: Sri Venkateswara College of Engineering
Start date – End date: August, 2006 – May, 2010
Degree and discipline: B.Tech in Biotechnology
Place: Sriperumbudur

Postdoctoral training:

- 1 Start date – End date: October 15, 2021 to Present
Title: Postdoctoral research scholar
Department: Chemical Biology Program, Sloan-Kettering Institute
Place: In the lab of Dr. Gabriela Chiosis, Chemical Biology Program, Sloan-Kettering Institute, New York, USA

Positions and Research Appointments:

- 1 Start date – End date: January 26, 2021 to July 30, 2021
Title: Project Associate
Department: Department of Biotechnology
Place: In the lab of Dr. Tamilselvan Jayavelu, Assistant Professor, Department of Biotechnology, Anna University, Chennai, INDIA.
- 2 Start date – End date: May 30, 2012 to December 31, 2012
Title: Project trainee
Department: Department of Biotechnology
Place: In the lab of Dr. Tamilselvan Jayavelu, Assistant Professor, Department of Biotechnology, Anna University, Chennai, INDIA.

Scientific and Medical societies:

- Member of Society for Neuroscience

Honors and Awards:

- Received **David Kritchevsky Graduate Student Award** with a prize money of \$1000 for the year 2020 by *Nutrition Research* journal sponsored by Elsevier for my publication in this journal. The winners for this award are selected by an editorial team based on creativity of the research and novelty of the research method.
- Awarded with **Senior Research Fellowship** for project titled **“Biotin cycle influences adipogenesis: A therapeutic avenue for insulin resistance”** by Indian Council of Medical Research (ICMR), Government of India (4th November 2016 to 3rd November 2019)
- Awarded with **Junior Research Fellowship** for project titled **“Dysregulation of autophagy influences mitochondrial function and biogenesis in adipocytes: A fundamental approach to insulin resistance”** by Department of Science and Technology, Government of India (16th August 2012 to 15th August 2015)
- Graduate Aptitude Test in Engineering (GATE) 2010 – **All India Rank 2131 out of 11276 in BIOTECHNOLOGY discipline.**
- Awarded **summer research fellowship sponsored by Indian Academy of Sciences** to carry out a summer research project (June – August 2009)

Other activities:

Conferences and workshop:

1. Attended the two-day National Institute on Aging virtual workshop on Microphysiological Systems to Advance Precision Medicine for Alzheimer’s disease (AD) and AD-Related Dementias (ADRD) Treatment and Prevention (July 2022)
2. Attended the talk on “Studying Protein Dynamics with An Eye to Molecular Design: From The Discovery of New Drugs to Applications in Immunology and Structural Vaccinology” by Giorgio Colombo (May 2022)
3. Attended seminar on Nanostring platform for spatial biology organized by Nanostring technologies held on (March 2022)
4. Attended webinar on “Advancing effective antibody-based therapeutics discovery assays” organized by Cell Press held (November 2021)
5. Participated in the 23rd National congress of Parasitology held at Centre for Biotechnology, Anna University, Chennai (November 2011)
6. Presented in International conference on natural products and biomedical technology, held at Annamalai University, a work titled “Development of marine compound based NF-κB antagonist using computer aided drug design” (January 2011)
7. Presented in the International conference on Challenging and Emerging Dimensions in Medicinal/Herbal plants and their products: A Global perspective, held at Chennai Trade Centre, a work titled “Development of curcumin based NF-κβ antagonist using computer aided drug design” (November 2010)
8. Participated in the workshop on “Recent trends in Industrial Bioprocess” held at Sri Venkateswara College of Engineering (September 2009)
9. Participated in the International conference on “Modern trends in Materials Technology” held at Sri Venkateswara College of Engineering (January 2009)
10. Presented in National conference on current trends in biomaterials, held at Sri Venkateswara College of Engineering - Chennai, a poster titled “Bioartificial heart – A future perspective in organ therapy for congestive heart failure” (July 2008)
11. Participated in the workshop on “Developing entrepreneurship skills in Biotechnology for students and parents” held at Sri Venkateswara College of Engineering (March 2008)

Additional activities:

1. Mentored more than fifteen undergrad and post-grad project students during my PhD towards developing their technical skills in the lab.
2. **Grant writing** – Secured Indian Council for Medical Research (ICMR) – Senior Research Fellowship through individual project proposal and assisted in multiple grant writings in the lab during my PhD.
3. **Lab management** – including consumable purchase, bill-filing, and equipment service follow-ups during my PhD.
4. Served as **placement representative** during postgrad (2011-2012).

5. Participated in organizing and hosting a stall on awareness on cardiovascular diseases at the Chennai Science Festival – 2011 conducted by the Department of Higher education, Government of Tamilnadu (February 2011).
6. Served as the **Joint Secretary of Students' Biotech Forum** and organized the Technical Symposium "Omics '08" during undergrad (2008).
7. Served as **Organizing Committee member** for National Level Conference on "Current trends in Biomaterials" during undergrad (July 2008).
8. Participated in a telephonic conversation with **Dr. A.P.J. Abdul Kalam** (late president of India) regarding an Eco - friendly idea named "Genshakthi" selected and organized by All India Radio, Chennai (Broadcasted on 15th August 2008)
9. Served in **National Cadet Corps** (NCC) in school and passed NCC – 'A' Certificate exam (2003) conducted by the Ministry of Defense, Government of India.

Languages:

Spoken and written: English and Tamil

Publications:

1. **Anand RS**, Jayavelu T. Does mTORC1 inhibit autophagy at dual stages?. *Bioessays* 2021;43(2)
2. **Anand RS**, Ganesan D, Rajasekaran S, Jayavelu T. Astrocytes resolve ER stress through mitochondrial fusion facilitated by biotin availability. *Cell Stress Chaperones* 2020; 25:945-953.
3. **Anand RS**, Ganesan D, Selvam S, Rajasekaran S, Jayavelu T. Distinct utilization of biotin in and between adipose and brain during aging is associated with a lipogenic shift in Wistar rat brain. *Nutr Res* 2020; 79:68-76.
4. Ganesan D, **Ramaian Santhaseela A**, Rajasekaran S, Selvam S, Jayavelu T. Astroglial biotin deprivation under endoplasmic reticulum stress uncouples BCAA-mTORC1 role in lipid synthesis to prolong autophagy inhibition in the aging brain. *J Neurochem* 2020; 154:562-575.
5. Ramamoorthy K, Raghunandhakumar S, **Anand RS**, Paramasivam A et al. Anticancer effects and lysosomal acidification in A549 cells by Astaxanthin from *Haematococcus lacustris*, *Bioinformation*. 2020; 16(11), 965-973.
6. Selvam S, **Santhaseela AR**, Ganesan D, Rajasekaran S, Jayavelu T. Autophagy inhibition by biotin elicits endoplasmic reticulum stress to differentially regulate adipocyte lipid and protein synthesis. *Cell Stress Chaperones* 2019; 24:343-350.
7. Somasundaram S, **Anand RS**, Venkatesan P, Paramasivan CN. Bactericidal activity of PA-824 against *Mycobacterium tuberculosis* under anaerobic conditions and computational analysis of its novel analogues against mutant Ddn receptor. *BMC Microbiol* 2013; 13:1-3.
8. **Anand RS**, Somasundaram S, Doble M, Paramasivan CN. Docking studies on novel analogues of 8 methoxy fluoroquinolones against GyrA mutants of *Mycobacterium tuberculosis*. *BMC Struct Biol* 2011; 11:1-3.
9. Subramanian K, **Ramaian AS**. Development of a less toxic dichloroacetate analogue by docking and descriptor analysis. *Bioinformation*. 2010; 5:73.