DR. ADITI NAIK

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AREAS OF SPECIALIZATION:

In-vitro culture studies for biological applications; Medicinal plants & their secondary metabolites; Medical pharmacology; Applied Sciences & toxicology.

RECENT AWARDS / FELLOWSHIPS:

- * Recipient of DST INSPIRE Fellowship granted by Department of Science and Technology, New-Delhi, Government of India.
- * Recipient of CCRT Scholarship to young artist in the field of dance granted by Ministry of Culture, Government of India.
- * Recipient of Young Scientist Award at 'New Vistas in Botany' conference organized by Department of Botany, Goa University during 13th-14th February 2020.
- * Best Poster Award (1st position) at International Conference on Natural Science and Green Technologies for Sustainable Development (NTSD-2022) organized by School of Biological Sciences and Biotechnology, Goa University during 30th November-2nd December 2022.

PAPERS PRESENTED AT SEMINARS/CONFERENCES (Selected listed):

- 1. Naik Aditi Venkatesh and S. Krishnan 2016. "Role of anti-proliferative Annonaceous acetogenins from medicinal plant *Annona muricata* a Review". Poster presentation at 7th International conference on Stem cells and Cancer held during 21-23rd October 2016 at Margao, Goa organized by International Centre for Stem Cells, Cancer and Biotechnology (ICSCCB), Pune, India.
- 2. Naik Aditi Venkatesh and S. Krishnan 2016. "Anatomical characterisation and localization of primary metabolites of medicinal plant *Annona muricata* L. (Annonaceae)". Oral presentation at XXVI Annual conference of Indian Association for Angiosperm Taxonomy and International seminar on 'Conservation and Sustainable Utilization of Biodiversity' held during 7- 9th November 2016 at Shivaji University, Kolhapur, Maharashtra.
- 3. Naik Aditi Venkatesh and S. Krishnan 2017. "Morphoanatomical characterization and physico-chemical studies of *Annona muricata* L. (Annonaceae) seeds" <u>Poster presentation</u> at National Conference of Young Researchers held during 16-17th March 2017 at Goa University.
- 4. Naik Aditi Venkatesh and S. Krishnan 2018. "Evaluation of Antioxidant Potential of Plant Parts of *Annona muricata* L. (Annonaceae)" <u>Poster presentation</u> at the 3rd Annual International Conference to be held during 15-16th November 2018 Goa College of Pharmacy, Panaji Goa.
- 5. Naik Aditi Venkatesh and S. Krishnan 2019. "Phytochemical characterization and in-situ localization of secondary metabolites in medicinal plant *Annona muricata* L.

- (Annonaceae)" <u>Oral presentation</u> at the 29th IAAT Annual Conference and National Symposium on Modern Trends in Biosystematics of Angiosperms held during 11th November-13th November 2019.
- 6. Naik Aditi Venkatesh and S. Krishnan 2020. "Preclinical genotoxic assessment of *Annona muricata* L. leaf and pulp extracts as DNA Damaging Anti-cancer Agent in the Management of Breast Cancer". <u>Poster presentation</u> at the Plant Genetics and Genomics Conference 2020 organized by Genetic Engineering Association, Department of Genetic Engineering, SRMIST, Kattankulathur- Tamil Nadu held during 23rd and 24th January 2020.
- 7. Naik Aditi Venkatesh and S. Krishnan 2020. "Preclinical cytotoxic and genotoxic appraisal of *Annona muricata* L. as DNA Damaging Anti-cancer agent in the management of breast cancer". <u>Young Scientist Award</u> for <u>Oral presentation</u> at the UGC-SAP National Seminar on 'New Vistas in Botany, 2020' held during 13th February-14th February 2020.
- 8. Naik Aditi Venkatesh and S. Krishnan 2022. "Exploring the Callus of *Annona muricata* as a Potential Source of metabolites with Anti-oxidant and Anti-cancer Activity". <u>Oral presentation</u> at Recent trends in Plant Sciences & Biotechnology (RTPSB, 2022) organized by School of Biological Sciences and Biotechnology, Goa University held during 3rd November-4th November 2022.
- 9. Naik Aditi Venkatesh and S. Krishnan 2022. "Assessment of Cellular DNA Damage *via* Comet Assay on Human Breast Cancer (MCF-7) Cells Exposed to Annonacin and *Annona muricata* L. extracts". <u>Best Poster Award (1st position)</u> for <u>Poster presentation</u> at International Conference on Natural Science and Green Technologies for Sustainable Development (NTSD-2022) organized by School of Biological Sciences and Biotechnology, Goa University held during 30th November-2nd December 2022.

SCIENTIFIC PUBLICATIONS (National and International):

- 1. Naik, A. V., & Sellappan, K. (2019). Physicochemical and Phytochemical Analysis of Different Plant Parts of *Annona muricata* L. (Annonaceae). Pharmaceutical methods, 10(2).
- 2. Naik, A. V., & Sellappan, K. (2020). Chromatographic fingerprint of essential oils in plant organs of *Annona muricata* L. (Annonaceae) using HPTLC. Analytical chemistry letters, 10(2), 214-226.
- 3. Naik, A.V., Cardozo, J., Fernandes, R., Khan, A. & Bhandari, R. (2020). Photosynthetic pigments, lipids and phenolic compounds of three green alga isolated from freshwater ecosystem. Journal of Algal Biomass Utilization, 11(1), 68-83.
- 4. Naik, A. V., & Sellappan, K. (2020). Assessment of Genotoxic potential of Annonacin and *Annona muricata* L. extracts on human breast cancer (MCF-7) cells. Advances in Traditional Medicine, 1-11.
- 5. Naik, A. V., & Sellappan, K. (2020). *In vitro* evaluation of *Annona muricata* L. (Soursop) leaf methanol extracts on inhibition of tumorigenicity and metastasis of breast cancer cells. Biomarkers, 25(8), 701-710.

- **6.** Naik, A. V., Dessai, S. N., & Sellappan, K. (2021). Antitumour activity of *Annona muricata* L. leaf methanol extracts against Ehrlich Ascites Carcinoma and Dalton's Lymphoma Ascites mediated tumours in Swiss albino mice. Libyan Journal of Medicine, 16(1), 1846862.
- 7. Naik, A. V., & Sellappan, K. (2021). Screening antioxidant activity by in-situ HPTLC-DPPH assay and in-vitro cytotoxic assessment of *Annona muricata* L. plant organ extracts on MCF-7 and SCC-40 cell lines. Vegetos, 1-10 (Impact Score: 0.47)
- 8. Naik, A. V., & Sellappan, K. (2021). Volatile Oil Profiles of Aerial and Underground Plant Parts of *Annona muricata* L. (Annonaceae) Grown in Goa, India. *Journal of Essential Oil Bearing Plants*, 24(4), 683-694.

PATENT:

• Granted 'Australian Innovation Patent' for the invention entitled, 'A method for treating cancer cells using anti-cancer treating plant extract' (Patent no. 2021104280, dated: 4th May 2022).