CURRICULUM VITAE

Mounika Aila
c/o **Dr. Ch Raji Reddy**
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Objective: To continuously enhance my educational & professional skills, knowledge abilities and utilize them for your organizational growth and to secure a challenging position.

Education:

Qualification	University/Board	Year of passing	Grade/Class
PhD (Submitted Thesis)	AcSIR	2021	-
M.Sc	OSMANIA University	2012	FIRST
B.Sc	OSMANIA University	2010	DISTINCTION
INTERMEDIATE	Board Of INTERMEDIATE	2007	DISTINCTION
SSC	BOARD OF SECONDARY EDUCATION	2005	DISTINCTION

- **PhD** (Organic Chemistry), CSIR-IICT, Hyderabad, India **(Submitted the Thesis).**
- **M.Sc** (Organic Chemistry), St. Pious X Degree College, Habsiguda. Hyderabad **(67.4%).**
- **B.Sc (**Biotechnology, Zoology, Chemistry), Begumpet Women's College. Begumpet, Hyderabad, India. **(74.02 %).**
- **Intermediate (**Physics, Chemistry, Biology), Sri Chaitanya Junior College, Kukatpally, Hyderabad, India. **(89.9 %).**
- **Matriculation** (Science, Mathematics, Social Science), Sagar High School, JNTU, Hyderabad **(83.16 %).**

Research Experience:

- **PhD**: (**May 2018 to December 2021**) under the supervision of **Dr. Ch. Raji Reddy, (Senior Principal Scientist)** CSIR-IICT, Hyderabad entitled '**Alkyne Assisted Annulations towards the Synthesis of Fused Benzofurans & Indoles, *β*- Carbolines and Pyrrolo-quinolones.**'

- (**March 2016 to April 2018**), 26 months as Project Fellow at CSIR-IICT, Hyderabad.
- (**Oct-2013 to Feb-2016**), 36 months as Project Fellow at CSIR-IIP, Dehradun.

Awards & Fellowships:

- (**April 2018 to May 2021**), **CSIR-Senior Research Fellow** by Council of Scientific and Industrial Research, Govt. of India, India.
- (**July 2018**), Best Poster Presentation at 25th CRSI-National symposium, IIT-Kanpur.

Professional Competence:

- Synthesis of biologically active natural products and expertise in multi-step synthesis.
- Profound efficiency in handling of hygroscopic, air sensitive reagents and reactions.
- Analysis by spectroscopic data ^{1}H NMR, ^{13}C NMR, IR and Mass spectra.
- Capable of performing collaborative and independent work.
- Expertise in making project reports, proposals & PowerPoint presentations.

Personal Biodata:

Female, Married, Indian, born on March 29th, 1990.

Present Address: Boduppal, Hyderabad, 500039.

Permanent Address: Kukatpally, Hyderabad, 500072.

Presented/Participated Symposia:

- **August 2016**, Participated in A Tributary Symposium on 100 years of Chemical Bonding (By G.N. Lewis), CSIR-IICT, Hyderabad.
- **September 2016,** Participated in International Conference on Nature Inspired Initiatives in Chemical Trends, CSIR-IICT, Hyderabad.
- **August 2018,** Presented poster at 25th CRSI-National symposium, IIT-Kanpur in chemistry. "Sequential propargylation/annulation approach to facile access β-carbolines, naphthofurans and naphthopyrroles."

REFERENCES :

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3. Dr. P. Srihari,
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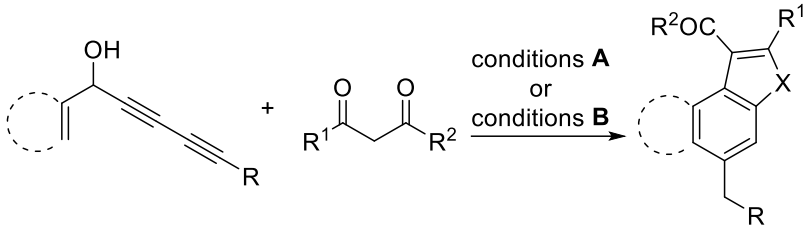
Research Summary

List of Publications

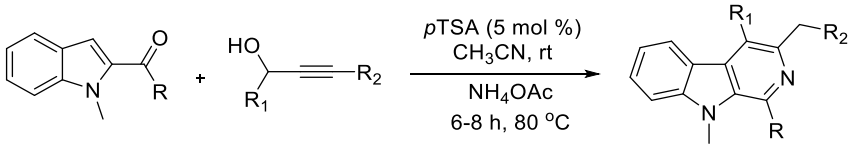
1. Domino Reaction of 2, 4-Diyn-1-ols with 1,3-Dicarbonyl Compounds: Direct Access to Aryl/Heteroaryl-Fused Benzofurans and Indoles. Raji Reddy, Ch; **Aila, M**; Subbarao, M; Kamalkishor, W; Gree, Rene. ***Org. Lett.*** **2021**, 12, 4882–4887.



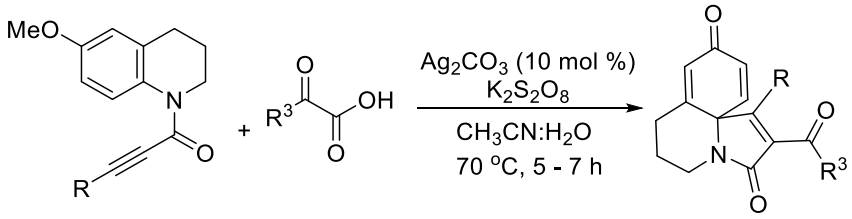
(A): $BF_3.Et_2O$ (10 mol%), CH_3CN, then K_2CO_3 - **X = O**

(B): $BF_3.Et_2O$ (10 mol%), toluene, then R^3NH_2 and DBU - **X = NR^3**

2. Metal-free One-pot Propargylation/aza-Annulation Approach to Substituted β-Carbolines and Evaluation of their Photophysical Properties. Raji Reddy, Ch; **Aila, M**; Sathish, P; Mrinalini, M; Giribabu, L; Seelam, P; Gree, R. ***Org. Biomol. Chem.,*** **2019,** 17**,** 9291-9304.



3. Ag-Catalyzed Oxidative ipso-Cyclization via Decarboxylative Acylation/Alkylation: Access to 3-Acyl/Alkyl-spiro[4.5]trienones ; **Aila, M**; Subbarao, M; Kamalkishor, W; Gree, Rene. ***Org. Lett.*** **2020,** 14**,** 5342-5346.



4. Algae-based biorefinery-How to make sense? Trivedi J, **Aila, M**., Bangwal, D. P.; Kaul, S.; Garg M. O., ***Renew. Sust. Energ. Rev***. **2015**, 47, 295–307.

5. Clean synthesis of biolubricant range esters using novel liquid lipase enzyme in solvent-free medium. Trivedi J, **Aila, M**., Sharma, C. D.; Gupta P.; Kaul S., ***Springer Plus.*** **2015**, 4,165.

6. Immobilized oxo-vanadium Schiff base on graphene oxide as an efficient and recyclable catalyst for epoxidation of fatty acids and esters. Verma, S.; **Aila, M**.; Kaul, S.; and Jain S. L. ***RSC Adv.*** **2014**, 4, 30598–3060.