

Curriculum Vitae

Name: Dr. Atish Kumar Sahoo
Designation: Senior Scientist
Division: Medicinal & Aromatic Plant Division

(A) Major thrust areas of research of RPRC:

Medicinal and Aromatic Plant Division of Regional Plant Resource Centre, Bhubaneswar undertakes the study of biomarker profiling of medicinal plants which are ethnobotanically used against many ailments, or diseases. Based on my expertise and domain on Pharmacological research, our Lab. undertakes such kind of unexplored botanicals and explore the presence of bioactive and bio-prospecting molecules by High Throughput Screening (HTS). Standardised, Fingerprint, Validation, Spectral characterisation by different instrumental techniques such as UV-Vis, FT-IR, ¹H & ¹³C-NMR, GC/LC-Mass spectroscopy, HPLC, and HPTLC are followed to establish and validate the bioactive molecules. In order to establish the bioactivities, the molecules are tested by *in vitro*, *ex vivo*, Acute toxicity study, Dose fixation and *in vivo* experimentation on animals to validate the therapeutic intervention against different ailments such as Liver cirrhosis, Diabetes, Inflammatory diseases, Cancer and Alzheimer diseases, Diabetes-induced neurodegenerative disorders etc.

(B) Major grants received

a) External grants received: 07

Department of Bio-Technology (DBT), Govt. of India:	02
NMPB; Govt. of India;	01
Science & Technology, Deptt. of Biotechnology, Govt. of Odisha:	01
Department of Science & Technology (DST), Govt. of India:	01
BPRF, Science & Technology, Deptt. Of Biotechnology, Govt. of Odisha:	02

b) Institutional projects funded by Forest & Environment Deptt., Govt. of Odisha: 16

c) Total no. of projects handled: 23

d) Total project cost solely handled: >2.5 Crores

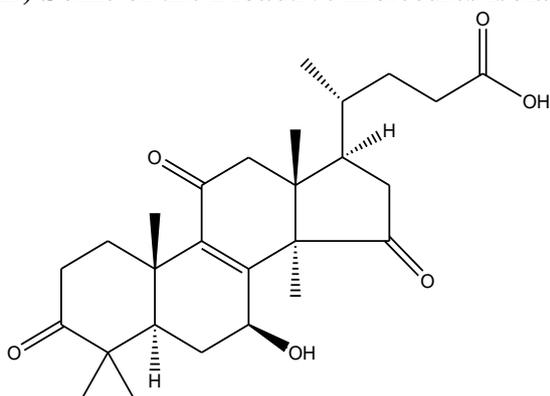
(C) Major publications in peer-reviewed International Journals

Natural Product Research, 2015, 29 (22), 2112–2116.	2.861 (Taylor & Francis)
Toxicology Reports, 2017, 4, 274–281.	1.884 (Elsevier)
Journal of Integrative Medicine, 2017, 15 (3), 231-241.	3.034 (Elsevier)
Carbohydrate Polymers, 2017, 157, 1657-1665.	9.381 (Elsevier)
International Journal of Biological Macromolecules, 2017, 95, 1037-1048.	6.953 (Elsevier)
Journal of Ethnopharmacology, 2018, 215, 42-73.	4.360 (Elsevier)
Biomedicine & Pharmacotherapy, 2018, 103, 903-914.	6.529 (Elsevier)
Biomedicine & Pharmacotherapy, 2019, 111,305-314.	6.529 (Elsevier)
Bioorganic Chemistry, 2019, 88, 102947.	5.275 (Elsevier)
Journal of Ethnopharmacology, 2020, 247, 112257.	4.360 (Elsevier)
Journal of Separation Science, 2020;1–10.	3.645 (Willy)
International Journal of Biological Macromolecules, 2020, 151, 305-311.	6.953 (Elsevier)
Journal of Ethnopharmacology, 2020, 260, 113099.	4.360 (Elsevier)
J. Young Pharm, 2021, 13(3), 214-219.	0.689
Journal of Ethnopharmacology, 2022, 282, 114637.	4.360 (Elsevier)
Journal of Ethnopharmacology, 2022, 283, 114649.	4.360 (Elsevier)
Biocatalysis and Agricultural Biotechnology, 2021, 37, 102173	1.037 (Elsevier)
Advances in Cancer Biology-Metastasis, 2022, 4, 100027	1.00 (Elsevier)

Pharmaceutical Biology, 2011, 49(2), 111-117 2.971 (Taylor & Francis)
 Expert Opinion on Drug Discovery 2009, 4 (5), 545-576 4.887 (Taylor & Francis)
 Journal of Complementary and Integrative Medicine 2010, 7 (1). 0.724 (De Gruyter)
 Oriental Pharmacy and Experimental Medicine, 2009, 9(2), 101-105 0.71 (Springer)
 Journal of Complementary and Integrative Medicine, 2009, 6 (1) 0.724 (De Gruyter)
 Natural Product Communications, 2008, 3(9), 1495 0.986 (SAGE)

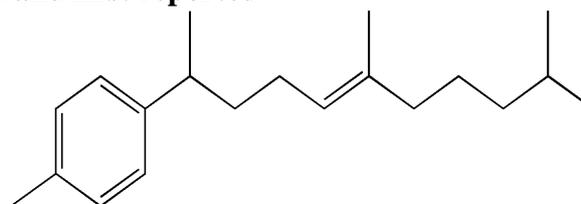
b) Total cumulative Impact factor accumulated: 87.883

(D) Some of the Bioactive molecules isolated and first reported



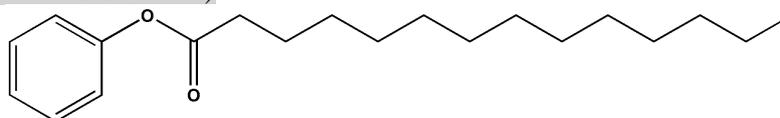
Lucidenic acid A

Toxicology Reports, 2017, 4, 274–281
 (IF-1.552 Elsevier)



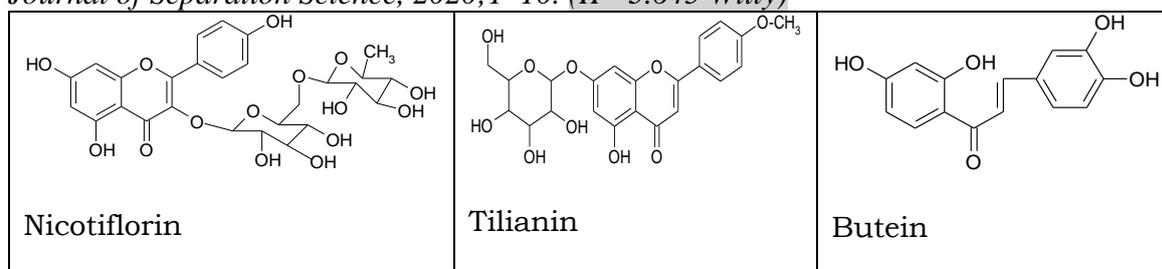
Pentylcurcumene

Bioorganic Chemistry, 2019, 88, 102947
 (IF-5.275 Elsevier)



Phenylmyristate

Journal of Separation Science, 2020;1–10. (IF- 3.645 Willy)



(E) Books Published: 01

“Inhibitant Drugs from Plants to treat Alzheimer’s disease”. Atish Kumar Sahoo. Published by Regional Plant Resource Centre (RPRC), Forest & Environment Deptt., Govt. of Odisha, Nayapalli, Bhubaneswar-751015. ISBN 978-81-940707-0-2, 2019.

(F) Monographs Published: 02

“Quality Standards of Indian Medicinal Plants and the Preparation of Monograph Thereof..”. ICMR Project, Govt. Of India. Published in Vol. 8 and Vol. 9, 2010.

(G) Abstract publications: 18

(H) Invited speaker/ Resource person/ Keynote speaker: 08

(I) Students enrolled/ guided

a) Ph. D.: 5 students enrolled/ guided: 05

- b) Ph. D. thesis submitted: 02
- c) M. Sc. dissertation submitted: 12

(J) Ph. D. Examination evaluator

- a) Jawaharlal Nahru University and Technology, Anantpur, AP: 02
- b) Suresh Gyan Vihar University, Jaipur: 01

(K) Invited Reviewer to International Journals

Pharmaceutical Biology, Journal of Functional Foods, Microchemical Journal, Journal of Food Biochemistry, PlusONE etc.

(L) New set up and add on to the infrastructural facilities

- a) Procurement of new high-end sophisticated equipment

UV-Vis spectrophotometer (UV-1800, Shimadzu, Japan), Multiplate microplate reader (Synergy H1MF, BioTek, USA), -80° deep freezer (U410-86, Eppendorf, Germany), CO₂ Incubator (Galaxy 48R, Eppendorf, Germany), Rota Evaporator (R-100, Buchi, German), Melting point Apparatus (FMP30, Stuart, UK), Lyophiliser (Lyodel, Delvac, India), Cooling Centrifuge (5424 R, Eppendorf, Germany) from different funding agencies like NMPB; Govt. of India, DST, Govt. of India, DBT, Govt. of India, DST, Govt. of Odisha, F & Env Deptt., Govt. of Odisha.

- b) New set up the Animal House Keeping Facility of the Centre to carry out Preclinical trails/ experimentation on small animals (Regd. No. 1807/GO/R/S/15/CPCSEA).

- c) Facility created for drug sample analysis

(M) Responsibility to organise the Conference, Exhibitions

- a) Organised and participated in the National conference on “Biodiversity Assessment, Monitoring and Conservation: Applications of Biotechnological Tools”, 22nd-23rd February, 2015, Regional Plant Resource Centre, Bhubaneswar.
- b) Exhibition of Medicinal plants conducted by State Medicinal Plant Board, F & Env Deptt., Govt. of Odisha at IDDCO ground, Bhubaneswar.