



**Dr.Raghu, Assistant Professor
Department of Chemistry**

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

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(54) Title of the invention : ANTI-TB NAPHTHYRIDINE DERIVATIVES AND THEIR SYNTHESIS THEREOF

(51) International classification :A61K 314375, A61P 250800, A61P 252800, A61P 310600, C07D 710400
 (86) International Application No :PCT//
 Filing Date :01/01/1900
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 Filing Date :NA

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(57) Abstract :

Abstract: The present invention relates to development of novel naphthyridine derivatives as potential anti-TB agents. It particularly relates to the development of novel compounds of 3-(7-oxo-5,6,7,8-tetrahydro-1,8-naphthyridin-3-yl) acrylic acid derivatives as potential anti-TB agents against the H37Rv strain of Mycobacterium tuberculosis. The synthesized a series of novel 3-(7-oxo-5,6,7,8-tetrahydro-1,8-naphthyridin-3-yl) acrylic acid derivatives of formula I (11a-j) and characterized by spectroscopic methods like ¹H-NMR, LCMS and elemental analysis. All the synthesized derivatives were evaluated for their anti-tubercular activity against H37Rv. All the test compounds exhibited anti-tubercular activity in the range of 7.81-256 µg/mL against H37Rv. The compounds 11f, 11h, and 11j emerged as the most promising anti-TB agent against H37Rv at 31.25 µg/mL, 15.62 µg/mL, and 7.81 µg/mL respectively. Docking studies were also carried out to investigate the binding affinities as well as interactions of these compounds with the target proteins.

No. of Pages : 29 No. of Claims : 12



Dr.Sophia D, Assistant professor , Department of Biochemistry received Kamarajar Institute of Education and Research Award (KIER AWARD 2023) for "Dedicated Teaching Professional National Award 2023"


VISION GROUP ON SCIENCE AND TECHNOLOGY
Department of Electronics, IT, Bt and S & T, Government of Karnataka

List of proposals recommended by VGST for funding during the year 2021-22

Scheme: Karnataka Fund for Infrastructure Strengthening in Science & Technology (K-FIST L1)

Sl. No.	Details of Principal Investigator	Title of the Project	Subject	Funds to be released during the 1st year (Rs. in lakhs)	Funds to be released during the 2nd year (Rs. in lakhs)	Total Amount (Rs. in lakhs)
1	Dr. Krishnamurthy Bhat, Professor and Head, Department of Electronics and Instrumentation Engineering, B V V Sangha's Basaveshwar Engineering College, Nijalingappa Road, Bagalkot - 587 102.	Infrastructural development for designing and developing portable biodiesel production unit	Bio Technology	7.50	7.50	15.00
2	Dr. M Manjunatha, Professor and Head, Department of ICAR-AICRP on PHET, University of Agricultural Sciences, Bellary Road, Vignana Kendra, Bengaluru North - 560 065.	Development of IoT based fully functional multi-task bioprocessor facility for production of fermented designer batter from nutri-cereals	Biological and Agricultural Sciences	7.50	7.50	15.00
3	Dr. Ayyanagouda Patil, Assistant Professor & Head, Department of Molecular Biology & Agril. Biotechnology, University of Agricultural Sciences, UAS Campus, Raichur - 584 104.	Establishment of infrastructure facility for bioinformatics and its utilization in knowledge discovery for crop improvement	Biological and Agricultural Sciences	7.50	7.50	15.00
4	Dr. Raghu, Asst. Professor, Department of Chemistry, Jyoti Nivas College, Hosur Road, Bengaluru South - 560 095.	A Novel Drug Design & Development to save People's lives from Snake bite.	Chemistry	7.50	7.50	15.00
5	Dr. Anil Rao, Assistant Professor, Department of Chemistry, Siddaganga Institute of Technology, B H Road, Tumkuru - 572 103.	DABCO-Piperidinium based dual Ionic Liquids: A new class of polymer electrolyte materials for alkaline fuel cell applications.	Chemistry	7.50	7.50	15.00
6	Dr. M. P. Sadashiva, Associate Professor DOS in Chemistry, University of Mysore, Manasa Gangothri, Mysuru - 570 006.	Design and Synthesis of Potential JAK2 inhibitors via Organic Substrates from Dithioesters	Chemistry	7.50	7.50	15.00
7	Dr. Rekha H B, Associate Professor, Department of Civil Engineering, Bangalore University, Mysore Road, Jnana Bharathi Campus, Bengaluru South - 560 056.	Experimental study on methane gas sequestration from land fill using inventive Biogeochemical soil cover	Civil Engineering	7.50	7.50	15.00
8	Dr. Ashoka S. B., Chairman, Department of Data Science and Artificial Intelligence, Maharani Cluster University, 39, Off Sheshadri Road, Palace Rd, Opposite Freedom Park, Racecourse Road, Gandhi Nagar, Bengaluru North, Bengaluru Urban - 560 001.	ADVANCED AI WITH MACHINE LEARNING APPLICATIONS IN DATA SCIENCE RESEARCH LAB	Computational and Mathematical Sciences	7.50	7.50	15.00
9	Dr. Chethan B K, Assistant Professor, Department of Information Science and Engineering, Sri Siddhartha Institute of Technology, Tumkur-Kunigal Road, Saraswathipuram, Tumakuru - 572 105.	Securing Mobile Agents Communication using trust correlation and dynamic passphrases in Mobile Adhoc Networks.	Computer Science/Information Science Engineering/Information Technology	7.50	7.50	15.00

Prof. M.R.S. Rao 
Chairman, VGST Sub-Committee
JNCASR, Jakkur
Bengaluru - 560 064

Prof. C.N.R. Rao, F.R.S., 
Chairman
Vision Group on Science and Technology
Jakkur Campus, Bengaluru-560 064

Page 1 of 3



Congratulations to Dr. Raghu Dept. of Chemistry for securing a Research grant of Rs.15 lakhs from VGST Govt. of Karnataka for Infrastructure Strengthening in Science and Technology. Jyoti Nivas College Autonomous is very proud of Dr. Raghu.



Dr. Vasudha

Department of Sociology

**Was sanctioned Rs 1,25,000/-
by the ICSSR for a minor
research project on “Coping
with COVID Pandemic: Social
Determinants of Awareness,
Acceptance and Access to**

DEPARTMENT OF COMMERCE & MANAGEMENT



Dr. Tamil Arasu
“A Case study on
Technology up-

Dr. Gracy Mathan
” A Case study of startup
of transportation

1. Capt. H K Roopa Rani was awarded the 'Best Paper Award



JGI JAIN CENTER FOR DISTANCE EDUCATION AND VIRTUAL LEARNING
J-Opus Synergia
presents
NATIONAL CONFERENCE ON INNOVATIONS IN EMERGING AREAS AND SUSTAINABILITY
29 March 2023 to 31 March 2023
BEST PAPER AWARD

This certificate is presented to

Roopa Rani HK

for the paper titled

भारतीय साहित्य में विविध विमर्श : संदर्भ : स्त्री विमर्श

Bala Subramanya

Prof. Bala Subramanya
Convenor

Dr. H. Muralidharan

Dr. H. Muralidharan
Conference Chairperson

Honoured with 'Rashtrabhasha Sevaratna Puruskar' by Kasturi Sirigannada Vedita



Ms. Capt. H. K.
Roopa Rani



Dr. Sarita
Rawat

कस्तूरी सिरिगन्नड वेदिके(पंजी.)
बेलगावी, कर्नाटक, भारत-५९१२२२
०१ अप्रैल २०१९

राष्ट्रभाषा सेवा रत्न पुरस्कार

प्रतिश्रुत,
डॉ. सरिता रावत
राष्ट्रवक्ता प्राध्यापिका
उच्चशिक्षण विभाग, कर्नाटक विश्वविद्यालय, बैंगलूर

आदरणीय,
शिक्षा के क्षेत्र में अथर्वत आपकी शैक्षिक सेवा साधना श्रेणीय है। आपकी शिक्षा और शैक्षणिक कार्य पद्धति सर्वत्र सराहनीय है। हमें आप जैसे सर्वज्ञ शिक्षक पर वास्तव में गर्व है। आपने अपने अपार ज्ञान बाण्डार से संभलत मानव समाज तथा समूल शिक्षा जगत को आलोकित किया है। आपकी साधना और तपस्या से अपने क्षेत्र को हम फलम करते हैं। निःसंदेह आपकी यह साधना अभिर्बन्दीय है।

कस्तूरी सिरिगन्नड मंच द्वारा दिनांक १४ सितंबर २०१९ बुधवार को राष्ट्रीय स्तर पर आयोजित 'हिंदी दिवस समारोह' के शुभ अवसर पर ऐसे अद्वितीय प्रतिभा के धनी शिक्षक की पहचान करते हुए मंच आपको ससम्मान 'राष्ट्रभाषा सेवा रत्न पुरस्कार' से अलंकृत कर, स्वयं को गौरवान्वित महसूस कर रहा है तथा मंच आपसे यह भी उम्मीद करता है कि आपकी श्रेष्ठ शैक्षणिक सेवा ध्वनि में भी अथर्वत जारी रहेगी। हम आपके वास्तवी एवं दीर्घवृ जीवन की कामना करते हैं।

'आपकी श्रेष्ठ शैक्षणिक सेवा को हमारा सलाम'

संस्थापक डॉ. एन. के. पट्टा पूर्व निदेशक, कर्नाटक विश्वविद्यालय, बैंगलूर	अध्यक्ष डॉ. एन. के. पट्टा पूर्व अध्यक्ष, कर्नाटक विश्वविद्यालय, बैंगलूर	मुख्य अतिथि डॉ. शिवाजी शंकर का. अर्थशास्त्र, कर्नाटक विश्वविद्यालय, बैंगलूर	मुख्य वक्ता डॉ. जति वर्मा का. अर्थशास्त्र, कर्नाटक विश्वविद्यालय, बैंगलूर	संयोजक डॉ. एन. के. पट्टा पूर्व निदेशक, कर्नाटक विश्वविद्यालय, बैंगलूर
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बैंगलूर विश्वविद्यालय, कर्नाटक विश्वविद्यालय, बैंगलूर

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Capt H K Roopa Rani and JUO Jaishree B N were honoured for their outstanding service in NCC during the TVS Eurogrip , Brunch and Biking Bike Rally on the occasion of

World



Department of MCA



Major research Project- Design and Development of the College Management Information System (CMIS) and Automatic Answer script Valuation system

Dr. Vinutha R Bhatta
Department of Zoology & Genetics



“The Women Scientist Award”

from the Society for Climate change and Sustainable Environment
for her research contributions in the field of Urban Bee conservation

Dr Priyadarshini Pillai
Department of Botany



**“Best Academician Award” from Mother Theresa
Digital University for her project on
Sustainability of ecosystem in urban spaces : Tree**

Dr Priyadarshini Pillai Tree Census Media coverage

City BangaloreMirror

Tree census: An app to check tree's health

QR code on trees will contain details about trees that can be seen on app



Saumyangi Yadav
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TWEETS @BangaloreMIRROR

With the BBMP Forest Department's tree census going on in full flow, authorities say that currently, the app is in the trial phase and is being tested in a few areas.

As part of the project, a QR code is affixed to each tree. The QR code would be connected to an app that would provide key information like the name, and health status of the tree among other details.

Sareena Sikkaligar, BBMP Deputy Conservator of Forest told Bangalore Mirror, "The pilot project is going on and we are doing app testing now. We have done a census in Malleswaram's ward 61 where we've recorded nearly 5,000 trees. Now we are working in Mahadevapura, AECS Layout with the help of an NGO. However, we have not come to any conclusion yet since it is just a pilot project."

"There are still some minor issues in the app, for example, if there is an issue with the network connectivity in certain areas, the app might not work. So, in some

There are some minor issues with the app; we are working on it

- an official

areas like near Vidhana Southa and some restricted areas, the app will have difficulty functioning, similarly in the outskirts as well. So, we are working to fix that and after that, if it is successful, we will call a tender for tree census and get it done," an official added.

Currently, an NGO, The People's Corp, is working with the students of Jyoti Nivas College to carry out BBMP's pilot project in the AECS Layout area.

Indira Belde, Founder of The People's Corp, added that she was a resident of the AECS Layout so she decided to take up the project for this ward. "I spoke to the Botany Department of several colleges including Presidency College, REVA University, Azim Premji University, and a few government colleges are also in line. But I decided to start with the students of Jyoti Nivas college and have entered into an MoU as well with the institute."

The students will be getting internship certificates from the forest department of BBMP and The People's Corp/NGO on the completion of the project, Dr Pillai added.

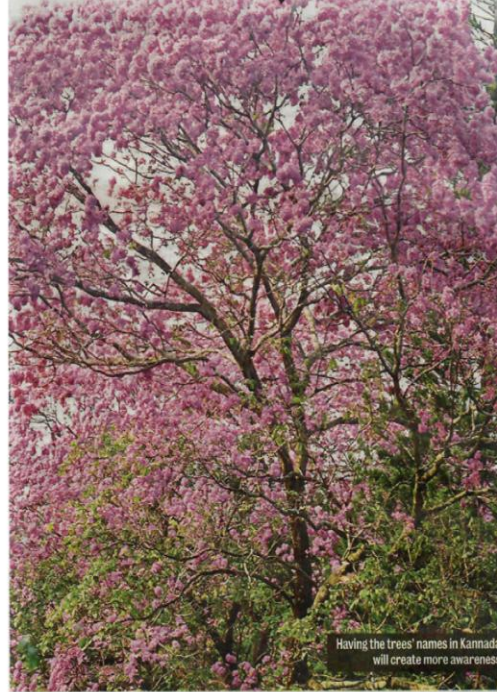
Belde added: In 1979, the green cover was around 78 per cent which has now depleted to just 3 per cent. The population of AECS Layout is 32,000 with 2.4 square km and the number of trees might be around 3,000. The ratio is expected to be 1:10 but we will find out only when the census has been completed. We have already mapped around 700 trees.

Dr Priyadarshini Pillai, HOD, Department of Botany, Jyoti Nivas College added that 35 female students from the college are currently working on the field for the tree census project.

"We have collaborated with BBMP and The People's Corp for this purpose. We had first given the training to our students on December 19 at the college campus. Upon the completion of the training, now they are working in the field and sticking the QR codes on the trees. They are also updating the information like the common name, botanical name, and vernacular names of the plant's species, they also need to student the entire morphology of the plants," she explained.

The students will be getting internship certificates from the forest department of BBMP and The People's Corp/NGO on the completion of the project, Dr Pillai added.

Tree names, now in Kannada



Having the trees' names in Kannada will create more awareness

BBMP introduces option for Kannada nomenclature of all city trees in its app developed to record tree census

Garima Prasher
c-garimaprasher@timesgroup.com
TWEETS @BangaloreMIRROR

The Bruhat Bengaluru Mahanagara Palike (BBMP), through its upcoming tree census of the city, is planning to create a Kannada guide for tree lovers and nature enthusiasts of Bangalore. The objective is to

so by introducing an option for the Kannada nomenclature of all the city trees in the app that will be used to record the census.

"We have added this feature in the app that is currently being used in the ongoing tree census pilot project in Mahadevapura. Under the project, we are affixing a QR code on every tree, which can be used to access key information such as the health status and scientific name of any tree in the city," said Sareena Sikkaligar, BBMP Deputy Conservator of Forest.

With this newly added feature, a user can now see the name of the tree in the local language as well, she added.

According to the officials, the decision was taken to fill the gap

of such resources in the local language, which is expected to create awareness about the trees among the local population.

The complexity of the scientific names of the trees stems from the combination of languages such as Greek and Latin, which are alien to most people.

"Tree nomenclature usually in-

This feature in the app is currently being used in the ongoing tree census pilot project in Mahadevapura

-Sareena Sikkaligar, Deputy Conservator, BBMP

voles common English and scientific names. There are many tree lovers and nature enthusiasts in the city who are not familiar with the English or scientific names of the trees. However, having the trees' names in Kannada will create more affinity towards the trees," she explained.

Technical glitches mar the pace

While the forest cell of BBMP has started the second pilot project of the much awaited tree census in Mahadevapura, technical glitches continue to mar the process.

The census is being conducted in AECS Layout by over 30 graduating students of Jyoti Nivas College in association with The People's Corp, a city-based NGO.

According to Indira Belde founder of The People's Corp, while they started the project on December 23, they have been able to map only about 1,300 trees so far. This is because the application developed by the BBMP is not up to the mark.

"We had to take a long break of 10 days in between as the app was collapsing every time students attempted to record information," she said.

However, even after the app was worked on, they are not able to map more than 70 to 80 trees every day. This is despite the fact that students are spending around eight hours daily on the census, she added.

The app has been developed by BBMP's internal team to conduct the census of the city as directed by the High Court in 2019.

Meanwhile, some of the students have dropped out of the census process due to the delay.

"Many come from off-campus to participate in the process and delay of more than 20 minutes just to enter one piece of information in the app was becoming difficult to manage," said Dr Priyadarshini Pillai, HOD, Department of Botany, Jyoti Nivas College.

The first pilot project of tree census was conducted in Malleshwaram, ward number 161 and the civic body mapped 5,000 trees in the area. The pilot projects are being done to assess the cost of conducting the survey before the civic body can float tenders for carrying out the tree census.

Lady of the trees is tagging them all



There are 1,000+ varieties of trees around the Ambalajoula Lake

Resident of area near Ambalajoula Lake numbers, GIS tags each tree locals planted nearby

Melvin Mathew
-melvin.mathew@timesgroup.com
TWEETS @BangaloreMIRROR

In a bid to protect the existing trees near lower Ambalajoula Lake, a resident of SIR Redwood is numbering and GIS (Geographic Information Systems) tagging them. The trees, with their classification, location, north-south and with hard barbs were considered eligible for the database. Most trees in the area are 15-20 years old.

Around the 7-acre lake are over 1,000 varieties of trees. After the lake was rejuvenated in 2010 with the help of residents, they carefully maintained the area and planted more than 1,000 saplings. They conducted plantation drives almost every year. However, one problem was that aerially nurtured trees would disappear and there would be no proof of their existence. That is when Karitha Kishore started this project to document every tree.

"I have been living here for the last 18 years and the lake is very dear to us. I have been planting saplings and have been able to observe

the growth of the trees. Apart from this, I have conducted plantation drives in various locations and have noticed that trees would be lost to road-widening or would get chopped off in apartments. When the lake was turned to sewage, the trees in the periphery withered away. Almost all the trees were planted after the lake's rejuvenation. The project has been envisioned to protect trees under the rules and regulations prescribed by the BBMP Forest Department in protected spaces like a lake," said Kishore.

Residents from nearby apartments also assisted with the plantation drive. Kishore noted that a photo with GIS coordinates along with the taxonomy of the trees could be highly beneficial for educational purposes. According to data collected by the residents, only trees that were 2.5 feet high and with hard barbs were considered eligible for the database. Most trees in the area are 15-20 years old.

"For the past 1 month, we have been working tirelessly with students of Jyoti Nivas College, painting numbers on the trees and noting down details about the trees to be fed into the digital database. We have officials from Lal Bigh coming to help us identify some of the lesser-known trees," she informed.

The project is in talks with BBMP and Biodiversity Society is seeking permission to upload the database on their public server. The tree census is part of a larger project titled 'Sustainability of ecosystem in urban spaces', which explores the impact of lake

ecosystems on nearby areas. "GIS tagging will allow for authentication of trees. If there is no count, we will keep losing trees

- Karitha Kishore, Resident

ecosystems on nearby areas.

"GIS tagging will allow for authentication of trees. If there is no count we will continue to lose trees. We have divided the lake into four quadrants - north, east, south, and west. The trees have been planted in a scattered fashion and it is hard to have access to the latitude and longitude of the tree and other data. This makes it severely difficult for inconsistent tree-cutting practices. Currently, none of the lakes have data like this," she further said.

For GIS tagging, the team used a simple camera app that allows you to take pictures along with their locations. The data being authenticates by officials from Lal Bigh helped the team curate more data on their botanical name, common name and species.

About the initiative, Head of Botany, Jyoti Nivas College, Dr Priyadarshini, said, "We collaborate with the horticulture department and identified the trees. The task was carried out with the assistance of 2 students from Jyoti Nivas College. Students were involved in the project for the last 2 months during their semester break."



CERTIFICATE OF APPRECIATION



is awarded to

MANJUNATHA S

of

JYOTI NIVAS COLLEGE AUTONOMOUS

BENGALURU, KARNATAKA

for his/her instrumental role as SPOC for the **SWAYAM-NPTEL** Local Chapter.
Thank you for being NPTEL's brand ambassador at your esteemed institution.



Active SPOC based on Performance & Participation of
Candidates for the JAN-APR 2022 semester

PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras

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Filing Date : NA

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Filing Date : NA

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(57) Abstract
Artificial intelligence based approach to Predict the Emotional Quotient of Employees by analysing their Facial Expression is the proposed invention. The invention focuses on identifying the emotional quotient and the factors corresponding to them on the employees of an organization. The proposed invention will utilize the algorithms of artificial intelligence for analysing the facial expressions of employees at various situations.

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