THE HINDU

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## University research makes it to cover of international journal

It was published in the Journal of Organic Chemistry

M. DINESH VARMA
PUDUCHERRY

A research paper by C. Sivasankar, chemistry professor at Pondicherry University, on an organic compound widely used in modern medicine and food processing applications, has been featured on the cover of the prestigious Journal of Organic Chemistry, published by The American Chemical Society, U.S.

The research paper titled "Carboxylic acid functionalization using sulfoxonium ylide as a carbene source", made it to the cover of the journal's March issue. While carboxyl acids, which are naturally prevalent and synthetically produced, are used in a variety of pharmaceutical, cosmetic, food processing and adhesive applications, the significance of the research is that it provides an alternative methodology and a new, safer catalyst for the process.

"Essentially, we have charted out a new methodology with a bio-compatible catalyst that can be used to make different drug molecules or cosmetic products, in which the diester compound is a key component,"



Pondicherry University Vice-Chancellor Gurmeet Singh felicitating C. Sivasankar for his work. \*SPECIAL ARRANGEMENT

said Mr. Sivasankar.

It is also an economically viable method as the catalyst is relatively cheap and, at the same time, stable. "Additionally, the catalyst used in the methodology will not not entail any toxicity. So, unlike the conventional use of catalysts like palladium or iridium to make drug molecules, where there are likely to be residual metal content that could cause side-effects, our work shows that the use of vanadyl bis compound as a catalyst through this methodology is bio-compatible and relatively risk-free," Mr. Sivasankar said.

The methodology involving vanadyl bis (acetylacetonate) as an inexpensive, stable and biologically active catalyst, provided an economic way for synthesis of diesters in mild reaction conditions. The research team, with Mr. Sivasankar as

lead investigator, comprised Fathima Febin Koothradan, Anusree Suresh Babu, Krishnendu P. Pushpakaran and Arumugam Jayarani.

According to a press note from Pondicherry University, the methodology depicted synthesis of \alpha-Acyloxy esters, an essential class of diesters having various biological applications, and making of drugs for treatment of disorders like multiple sclerosis, plaque psoriasis, gonorrhea, bronchitis, Kawasaki disease, pericarditis, and rheumatic fever. They have also been used as the building blocks of poly (propylene fumarate) (PPF), used in several regenerative medicinal applications, particularly bone tissue engi-

Pondicherry University Vice-Chancellor Gurmeet Singh felicitated Mr. Sivasankar for the achievement. DINAKARAN

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## PONDICHERRY UNIVERSITY (A CENTRAL UNIVERSITY) KALAPET, PUDUCHERRY-605 104

The Pondicherry University invites "Expression of Interest" from Licensed and experienced caterers of repute with proven capability of providing good quality hygienic food for providing catering services to the University llango Adigal Mess (Boys) and Madame Curie Mess (Girls) Hostel residents, maximum numbering about 330 and 250 respectively at the rate of Rs.76/- per student per day (for Boys Mess) and Rs.71/- per student per day (for Girls Mess) with a list of separate menu and other terms & conditions, which can be downloaded from our University website www.pondiuni.edu.in.

Those who are meet the above criteria may submit their "Expression of Interest", in person, to the Chief Warden (Boys' Hostels) of Pondicherry University in the presence of a committee constituted by the University for the purpose up to 11.00 AM on 08.04.2022 in the Executive Council Hall, Dr.B.R.Ambedkar Administrative block, Pondicherry University, Kalapet, Puducherry – 605 014.

The process of selection of caterers will take place immediately after 11.00 AM and will be over on the same day. Till such time, the Caterers, who have submitted their "Expression of Interest", are required to be present with all their supporting documents.

The selected caterers would be required to commence the catering services in our University llango Adigal Mess (Boys) and Madame Curie Mess (Girls) immediately.

Date: 29.03.2022
Place: Puducherry.