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Macroemulsions and Microparticles: Uncovered Mechanistic Insight and Nonconventional Application Potential

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The cover page contains a figure from the article of Dr. Tamilvanan Shunmugaperumal

EDITORIAL

Drug discovery is a challenging task, only a few venture in this direction. The profit margins are small, the recognition for work is rare, the success percentage is relatively small, in comparison to other sciences / technologies. Yet the requirement of drugs is ever increasing. Motivating scientists to take up pharmaceutical research is an important activity. The Department of Pharmaceuticals (DoP), Ministry of Chemicals and Fertilizers has taken up this task and successfully executing the same. Its efforts in promoting the fundamental as well as applied pharmaceutical sciences are increasing year-on-year. Publishing CRIPS is one such activity. Encouraging students to take up research is a pioneering effort of DoP. Recent advancement in this direction is in the form of increasing number of fellowships and increasing the fellowship amount.

The interplay between immune system metabolism and obesity is one of the poorly understood phenomenon in pharmacology. Out of the several efforts, xenoestrogens and metainflammation studies are pioneering efforts. In issue, Gena and coworkers explained the details of the research efforts in these topics. Normal metabolism in cells is disturbed by xenoestrogens. Macrophages surrounding adipocytes get activated during the onset of obesity. In this review, the roles of xenoestrogens in causing metainflammation, the connecting link between metainflammation and the immune system, the molecular basis of obesity, metabolic considerations in these topics have been explained in detail.

The article by Shanmugaperumal and coworkers discussed uncovered mechanistic insights into macroemulsions and microparticles. They proposed many non-conventional applications of these systems. In the abstract, the objectives of the review were elaborated. It was considered that the micron-level sizing is less-expensive and it is worth switching back to their production. The cases studies considered include – (i) indomethacin-ibuprofen loded polystyrene (ii) ornidazole loaded PEG. Methods of microemulsion formulations, stability analysis and their therapeutic potential are also included in this article.

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