PHARMACEUTICAL TECHNOLOGY AND QUALITY ASSURANCE

Universidade do Vale da Itajaí (UNIVALI)

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Área: Ciências da Vida
Linhas de Pesquisa: Pharmaceutical applications of biopolymers; Development of herbal medicines; Development of dosage forms and controlled drug delivery systems; Development and validation of analytical methods and processes; Research and development of cosmetic and nutraceuticals products

Breve descrição das atividades de pesquisa

The research group is investigating new technologies for developing drug delivery systems based on microencapsulation, nanoemulsions, solid lipid nanoparticles, and bioadhesive systems, among others. The active compounds are based on medicinal plants, food residues, and synthetic drugs. In addition, we investigate unstable active substances, developing stability-indicative methodologies to monitor the systems. We also act in the characterization of ozonized vegetable oils and their incorporation into cosmetic formulations, and bioadhesive films for various purposes, including dental applications.

Impacto das pesquisas desenvolvidas para a sociedade e ciência

The group has carried out research and development projects for analytical methods and pharmaceutical, food, and cosmetic products, many in partnership with companies and also with researchers from Perugia University, such as Prof. Maurizio Ricci and his group. Such results have led to the qualification of such products, contributing to the portfolio of partner companies and the formation of qualified human resources. The group has published scientific articles, and abstracts at events, as well as participated in the filing of patents and incubation projects for companies focused on innovation, especially in the cosmetics area. FAPESC, CNPq, CAPES, and FINEP are among the funding agencies supporting these projects.