

## BIOLOGICAL EVALUATION OF NATURAL AND SYNTHETIC PRODUCTS

*Universidade do Vale do Itajaí (UNIVALI)*

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**Área:** Ciências da Vida

**Linhas de Pesquisa:** Anti-inflammatory and antinociceptive activity; Antidiabetogenic Activity; Antimicrobial activity; Antiparasitic Activity; Toxicity ; Activity on Tumor Growth and Immune Response; Activity on the Cardiovascular and Renal System; Activity on the Central Nervous System; Activity on Inflammatory and Ulcerative Processes of the Gastrointestinal Tract

### Breve descrição das atividades de pesquisa

The "Biological Evaluation of Natural and Synthetic Products" Research Group consists of a multidisciplinary team involving researchers from the fields of biochemistry, pharmacology, immunology, microbiology, and parasitology, which emerged from the Nucleus of Chemical-Pharmaceutical Investigations (NIQFAR ) in 1995, the consolidation of partnerships between professors of undergraduate and postgraduate courses at the Faculty of Health Sciences of UNIVALI, other courses of this institution and other national and international courses, in order to promote preclinical studies with active ingredients of natural origin as well as with products derived from organic synthesis. The scientific production of the group is well-known in the institution and contributes to the overall production of NIQFAR. The group includes scientific initiation projects, undergraduate theses, master's and Ph.D. projects, as well as projects related to CNPq, FAPESC, the pharmaceutical industry, etc.

### Impacto das pesquisas desenvolvidas para a sociedade e ciência

This research group contributes to the expansion of knowledge about bioactive compounds that may give rise to future drugs or phytotherapeutics by investigating the medicinal potential of compounds of natural and synthetic origin, focusing on the search for molecules with anti-inflammatory, healing, and anti-ulcer potential, antihypertensive, antimicrobial, and with effects on the central and peripheral nervous systems. This group contributes to the regional and scientific development of the state and increases intellectual production, as this team provides scientific data that can be used as a platform for subsequent studies in the production chain of the pharmaceutical industry. Finally, this group strengthens the UNIVALI as a research institution and contributes to training human resources for the state and the country.