

LIFE & HEALTH SCIENCES

Credit-Bearing Research Project Internships

PROGRAM TERM
Spring 2022

Build Your Resume/CV During the Spring Semester!

Research Internship Projects

- ✔ Machine Learning and Molecular Design of Self-Assembling Short and Ultra-Short Marine Peptides
- ✔ Development of a Database with Short Self-Assembled Peptides (Up To 5-8 AA) From Sea Invertebrates (Sea Cucumbers, Star Fishes, Sea Anemones, etc)
- ✔ Birds as Indicators of Microplastic Pollution
 - A literature review on the presence of microplastics in various bird species, and the impact on wildlife and the environment. Database searches, review of literature, data comparison between studies.
- ✔ The Minimal Dose of Exercise Needed to Induce Health Benefits:
 - The Project aims to review the Available Data on Small Doses of any Type of Exercise and their Effects on Health Parameters.
 - To search in scientific databases and review the available data regarding the effect of small doses of exercise on health parameters.
 - Requirements: BSc or MSc Students, Ability to Search in Scientific Databases, Good Knowledge of Exercise Physiology.
- ✔ Isolation and Biological Evaluation of Peptides and Proteins from Venomous endemic species (scorpions and snakes).
- ✔ Biological evaluation of extracts of endemic plants.

- ④ **Functional Capacity Assessment in Older Adults:** *Aging is associated with reductions in functional capacity. Even though functional capacity is associated with preservation of physical independence in older adults, it is rarely assessed in daily practice compared to other clinical or biochemical parameters. The project aims to review the available data on the methods of functional capacity assessment*

- To search in scientific databases and review the available data regarding functional capacity assessment in older adults

Requirements: BSc or MSc Students, Ability to Search in Scientific Databases, Good Knowledge of Aging and Exercise.

- ④ **Review of Zoonotic Diseases Transmitted from Birds to Humans**

- To review the published literature on zoonotic diseases transmitted from wild birds to humans. This will include database searches concerning zoonotic diseases; investigation of the categories and types of diseases and methods of transmission from vectors to hosts; assessment of seriousness of diseases and methods of control/containment.

- ④ **A Meta-Analysis of Songbird Poaching in the Mediterranean and Middle East**

- A systematic review of published literature; collation of published data in studies spanning more than 10 years; meta-analysis of the published data to determine overall trends.