

## CHAPTER 1

### Introduction

#### 1.1. Host Institution Description

Indonesian International Institute for Life Sciences (i3L) is a private institution which provides university-level education and is located in East Jakarta, Indonesia. The institute was established in 2014 as a result of a collaboration between the Karolinska Institute and Swedish University of Agricultural Sciences. Provided education focuses mainly on life sciences with several departments falling under the category – pharmacy, biotechnology, biomedicine, food sciences and nutrition, food technology, and bioinformatics. i3L poses certain values which are grit, role-model, and integrity, aligning with its vision of becoming a leading and innovative life science faculty with direct impact in improving national competitiveness through global practices and academic connections. The missions of i3L include delivering international standards of inter-, multi-, and trans-disciplinary education focusing on life sciences, as well as collaborating with international institutions, businesses, and government to perform research which will benefit Indonesia's quality of life.

#### 1.2. Department Description

The project falls under the pharmacy department of i3L and in this department, studies focusing on pharmaceuticals such as cosmetics and medicines are offered. Several aspects are covered in cosmetic studies such as differentiating APIs from excipients, as well as utilizing suitable ingredients and instruments for formulation and evaluation of the cosmetic products. Under medicine, studies focusing on drug design and development, *in-vitro* and *in-vivo* clinical testing, drug delivery systems, and patient counselings are offered.