

Pharmacy

BACHELOR'S PROGRAM



Improving the Quality of Life



Pharmacy

OVERVIEW

Pharmacy is one of the most interesting and well known majors in Indonesia that focuses on medicines, drug discovery and development, clinical trial, drug delivery and management, and also patient counseling. Pharmacy is the bridge between biomedical scientists and medical doctors and is highly related to biomedical science, chemistry, pharmacology, pharmaceutical engineering, social science, and public health. Pharmacists are among the most respected professions in the world, whether in a governmental institute, research institute, pharmaceutical industry, or clinical pharmacy.

Pharmacy Uniqueness

Discovery-Based Learning



The Pharmacy Program at i3L is designed very closely to other life-science fields, which allows the creation and discovery of novel drugs, and the optimization of existing drugs.

Next Generation Pharmaceuticals



There are many drugs that can be created by pharmacy graduates which belong to next generation drugs, such as biopharmaceuticals, vaccine/antibody, protein recombinant, New Chemical Entity [NCE], etc.

Vast Array of Career Options



Students are trained in order to develop their careers in various fields, such as in community service/development, industry, clinical settings, research, etc.



Pharmacy

STUDY PROGRAM AT A GLANCE

Research

> 90%



of our students are actively involved in faculty research and community service activities.

Textbooks for major subjects are provided



Internship

100 %



of our students are responsible of securing their own internship placements abroad (UK, Australia, Singapore, Taiwan & Thailand) and locally, at international companies/research institutes.

Faculty



- Australia
- UK
- Singapore
- Netherlands
- Japan
- USA

Partners



KALBE

Waters

MERCK

SARTORIUS



PERDANA
UNIVERSITY



SKINOVATION



KROMTEKINDO
UTAMA



Indonesia
Chromatography
Centre



Pharmacy

FACILITIES



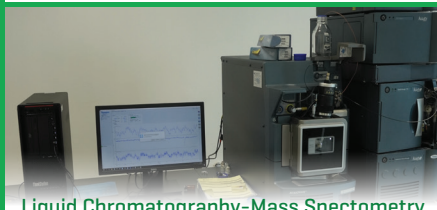
Protein Purification



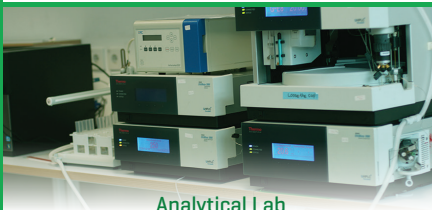
Tableting Equipment



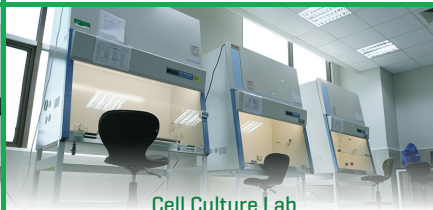
Bioreactor for Cell Culture



Liquid Chromatography-Mass Spectrometry



Analytical Lab



Cell Culture Lab

Research

Life Science for Health and Well-Being

This research cluster is initiated by Pharmacy and Biomedicine departments, which focuses on studying and developing therapies for human diseases and well-being.

Research Highlights:

- Cosmetic product development in collaboration with leading cosmetic industries
- Drug delivery system development from natural and synthetic products
- Natural product development for drug candidates of non-infectious and infectious diseases
- Development of decision support system for prescribers and pharmacy in local hospitals



Skinovation

Skinovation is a research center focusing on the development and testing of personal care and cosmetic products. We aim to help develop innovative products and evaluate their safety and efficacy. We offer a wide variety of services such as product development, evaluation of product active ingredients, formulations through in vitro assays, as well as customized study design according to clients' specific needs. Skinovation is also able to help companies to test their product claims [e.g. hypoallergenic, tear-free product, gentle free product for babies, etc.] and conduct consumer product testing to test the efficacy of a product through real consumer in-use tests. This center is led by experts who have a good understanding in clinical study design and product formulations, and our laboratories are well-equipped with modern lab instruments that allow us to perform a wide range of analyses.

Indonesia Chromatography Center

Indonesia Chromatography Centre is a collaboration between PT. Kromtekindo Utama and Indonesia International Institute for Life-Sciences [i3L], which provides educational services empowering scientist to maximize their skills in HPLC, UPLC, LC MS/MS and Advance Chromatography Software.

We offer tailored services for your needs – starting from basics, intermediate, and advance level, through several methods such as method development assistance, training center, workshop, and webinar.



Pharmacy

STUDENT'S PROJECT



Cosmetic Products

The future of beauty with the i3L Pharmacy Student Project, featuring a line of cosmetics enriched with the power of herbs. The collection includes a sunscreen foundation, gel facial cleanser, tinted lipstick, cleansing toner, and a convenient sunscreen stick, all infused with herb extracts, including Centella Asiatica and Rose. These natural ingredients have been selected for their nourishing and skin-loving properties, ensuring that the cosmetics not only enhance your beauty but also care for your skin.

Pharmaceutical Products

The Coriander Effervescent Tablet is a product that has been developed by the pharmacy students to address a pressing health concern - reducing oxidative stress. Packed with the natural power of coriander, these effervescent tablets are designed to help you combat oxidative stress and promote overall well-being. Moreover, the effervescent tablet helps you consume the supplement more easily.

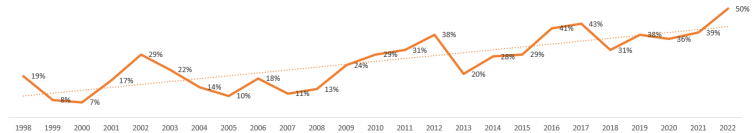


Pharmacy

PHARMACEUTICAL INDUSTRY TRENDS

The pharmaceutical industry grows and changes rapidly, creating significant educational pressure on the workforce. Indonesia International Institute for Life Sciences (i3L) is committed to closing the skill gap by providing industry-relevant training programs.

Global pharmaceutical trend



Percent of Newly Approved Biopharmaceutical Products

OUR PROGRAM'S CURRICULUM IS THE FIRST IN INDONESIA TO ALIGN ITSELF WITH THE NEEDS OF THE BIOPHARMACEUTICAL INDUSTRY

What are biopharmaceuticals?

Unlike typical drugs made from synthetic chemicals (conventional pharma), biopharmaceuticals are produced from living organisms.



Why are biopharmaceuticals important?

Biopharmaceuticals can treat cancer, chronic kidney disease, and autoimmune disease [such as rheumatoid arthritis and inflammatory bowel disease].

THIS MEANS MORE TREATMENT OPTIONS FOR PEOPLE WITH CRITICAL AND DIFFICULT-TO-TREAT ILLNESSES



Top biopharmaceutical companies

WORLDWIDE

AbbVie

Amgen

Novo Nordisk

Pfizer

Roche

Sanofi

SOUTHEAST ASIA

Kalbe

Siam Bioscience



Pharmaceutical industry market size





Pharmacy

INTERNATIONAL INTERNSHIP AND THESIS PLACEMENT PROGRAMS



 **UCSI University**

Gina Aqnesia
Internship at **UCSI Malaysia,**
Malaysia



 **NANYANG
TECHNOLOGICAL
UNIVERSITY**
SINGAPORE

Andre
Internship at **Nanyang Technological
University, Singapore**



 **NANYANG
TECHNOLOGICAL
UNIVERSITY**
SINGAPORE

Beatrice Elmund
Internship at **Nanyang Technological
University, Singapore**

 **THE UNIVERSITY
OF QUEENSLAND**
AUSTRALIA



Gisella Edny
Internship at **University of
Queensland, Australia**

 **SUNGKYUNKWAN
UNIVERSITY**



Virlia
Internship at **Sungkyunkwan University,**
South Korea

 **서울대 학교**
SEOUL NATIONAL UNIVERSITY



Kim Jung Yeu
Internship at **Seoul National University,**
South Korea



 **國立中興大學**
**NATIONAL
CHUNG HSING UNIVERSITY**

Angeline salim
Internship at **Taiwan National Chung
Hsing University (NCHU), Taiwan**



 **QUEEN'S
UNIVERSITY
BELFAST**

Jeannifer Rebecca
Internship at **Queen's University
Belfast, United Kingdom**



 **臺北醫學大學**
TAIPEI MEDICAL UNIVERSITY

Celestine J. T, Andrea B. W & Erika M. K
Internship at **Taipei Medical University,**
Taiwan



Pharmacy

ACHIEVEMENTS



Three i3L students won the **Green Track L'Oreal Brandstorm 2022** and will be advancing to the international round representing Indonesia.



Our Faculty, apt. Pietradewi Hartrianti, M.Farm., Ph.D. with two our students Erika Chriscensia and Carlos Suwono [both from Pharmacy 2018] got **2nd place at Merck Young Scientist Award 2021**.



Our students passed the selection process for an **internship at L'Oreal's STRAD** (Scientific, Technico, and Regulatory Affairs Division).



Five students, Beatrice Elmund, Theodore Leonard, Elsabda Shiratan, Shakila Angjaya Adiyanto, Giovanni Batista Christian Daeli, Hillary, Andre, have published their review papers or research articles in reputable international journals.



Four Pharmacy students have **won first place at Indonesian Pharmaceutical Students Science Week (PIMFI) 2021**. Dandy Felix Kristianto [PHA 2019] won the formulation competition, while Celine Chelovna, Cecilia Ashley, and Putri Avanny [all from PHA 2019] won the educational video competition.



Kim Jung Yeu, Clarabelin, Virilia Pharmacy 2020 **2nd winner of pharmaceutical industrial case study competition, pharmanova ITB 2023**.



Queen Saint Monica Vannessa Liu [2022] - **3rd winner national avicenna competition** [held by Udayana University].



Azura Luna Widiyanto - **Runner Up Winner Nutrition Expo 12 (2022)**- [Held by Indonesia University].

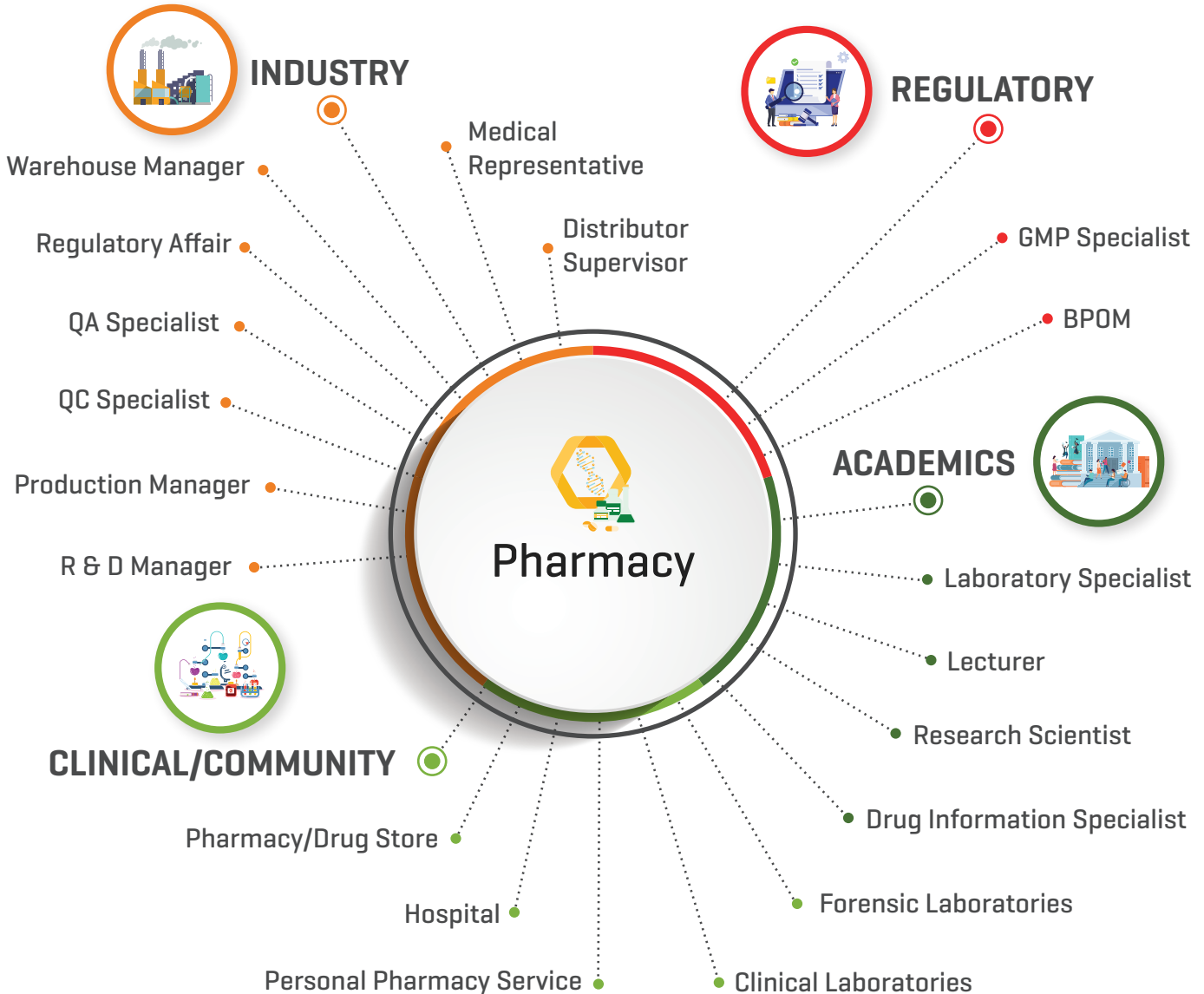


Fenny Soetanto, Janice Evita S, Putri Avanny J, Priska Anastasya G. Celine C., receive PKM [Pekan Kreativitas Mahasiswa] **funding from Ministry of Education, Culture, Research, and Technology** for their research proposal on creating novel of wound dressing.



Pharmacy

POTENTIAL CAREER PATHS





Pharmacy

TESTIMONIALS



Giovanni Batista Christian Daeli

Alumnus of Pharmacy 2017

Medical Science Liaison - PT Merck Tbk



i3L provides an innovative curriculum and an emphasis on practical learning that gives me the skills and knowledge needed to excel in my career. The supportive community and personalized educational approach made my time at i3L fulfilling and enjoyable.



Shakila Angjaya Adiyanto

Alumna of Pharmacy 2018

Management Trainee at L'Oreal Indonesia



Attending i3L turned out to be one of the best decisions I've ever made, difficult yet rewarding! I've met fantastic people, especially the pharmacy lecturers, who have helped me not only with my academics but also soft skills, leadership, and mindset development. My university years will truly be missed as i3L provided entertaining student activities, serving as a nice break from all academic challenges and inspiring me to be more adventurous! "Explore every opportunity you're interested in, as failure is what makes you grow!" are my words of advice to individuals who desire to study at i3L.



Sheryl

Alumna of Pharmacy 2017

Research & Development Staff at Lion Wings



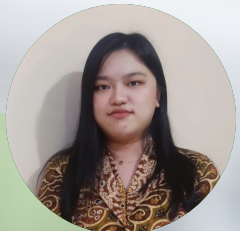
I am honored to be a product of this esteemed institution. i3L provides a platform to enrich both academics and real experience that prepared me well for my current career. The institution gave me a chance to learn from leading scientists and pioneers in life sciences specialists in Indonesia. Moreover, i3L provides the best facilities and has an education-friendly environment. Being surrounded by helpful lecturers and supportive friends were one of the unforgettable moments I had during my study in i3L. Thank you i3L for making my college years wonderful!



Evelyn Jeanette Wijaya

Alumna of Pharmacy 2018

Clinical Research Associate at Equilab International

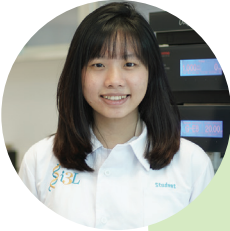


i3L is a great institution that provides us with not only the facilities needed to deepen our acknowledgment in the pharmaceutical industry but also helps us with planning our future careers. This is because our pharmacy lectures can give us deep explanations and pictures regarding the choice of industry that we desire.



Pharmacy

TESTIMONIALS



Gisella Edny

Alumna of Pharmacy 2017

Research & Development at PT. Lion Wings; Ph.D. Scholarship, The University of Queensland [2023]



Not only is i3L a great institution, it is the perfect community to hone the skills necessary for our future professional work. i3L motivates whilst providing opportunities which would highly benefit students as they progress into becoming world-renowned scientists. The pharmacy program at i3L is like no other; it specializes in promoting practical-based projects and laboratory techniques.



i3L provides us not only with facilities needed to further deepen our understanding about science, but also with international connections within our desired field of research. It is because of the broad connection of our faculty members and their dedication to bring forward pharmaceutical research in Indonesia.

Andre

Alumnus of Pharmacy 2016

Business Development Officer at Enseval Medika Prima



Raymond Christanto

Alumnus of Pharmacy 2016

Clinical Research Associate at PT. Daewoong Biologics Indonesia



i3L provides you with the necessary knowledge and education for your future careers in Indonesia and abroad. i3L also offers internship and double degree programs at top universities abroad.

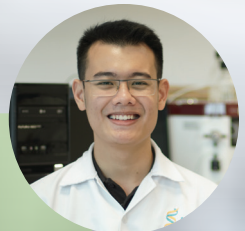


Theodore Ebenezer Leonard

Alumnus of Pharmacy 2017


Production Staff at PT. Bifarma Adiluhung [Kalbe Stem Cell]; Ph.D. Scholarship, The University of Queensland [2023]




I did enjoy my study here at i3L. The laboratory facilities are outstanding and the faculty members are very supportive. During the summer break I took an internship program at Walailak University, Thailand. It was a project from the Royal Family Grant and it was funded by Royal Highness Princess Maha Chakri Sirindhorn. I learned a lot there, especially about the axenification and also the purification of a parasite called *Acanthamoeba triangularis*. I'm also glad to have this international exposure in a workplace in the second year of my study here at i3L.





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