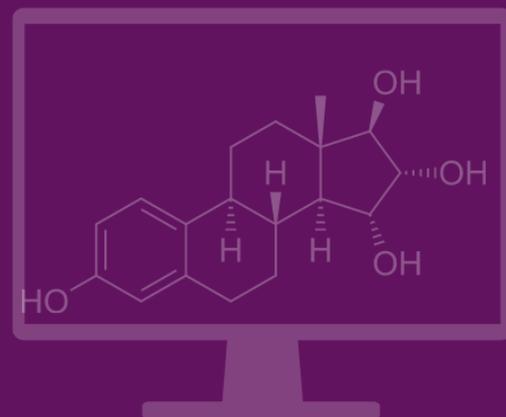


# GUIDE BOOK

INTERNATIONAL PHARMACY SUMMER  
SCHOOL 2022



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## INTRODUCTION

International Pharmacy Summer School 2022 (IPSS 2022) is the 8th pharmacy summer school in Indonesia and an annual event organized by Faculty of Medicine and Health Sciences of Universitas Muhammadiyah Yogyakarta, Indonesia. It will be held on July 16th until July 20th 2022 at the Universitas Muhammadiyah Yogyakarta. It is a unique summer school program combining the academic and student activities. It aims to make participants able to interact and work together with related professionals, get more information about Technology of Drug Discovery and memorable Indonesian cultural learning. IPSS 2022 has so much exciting activities, including academic and non-academic. The academic activities involve “Utilization of Technology in Drug Discovery for Pharmacy in Post Pandemic Era”. Participants will get lectures by experts and professionals. Participants also have other academic activities, such as tutorials (Case discussion), practice of Bioinformatics in Drug Discovery, interprofessional education, and Bioinformatic Company virtual visit,. The non-academic activities involve culture session, games, and virtual medical tour. It is hoped that this activity can introduce the Indonesian education curriculum, especially education at Universitas Muhammadiyah Yogyakarta and can also introduce Indonesian culture to all participants of the International Pharmacy Summer School (IPSS 2022).

Best Regards,

Comitte of IPSS 2022

## INDONESIA DAN YOGYAKARTA

Republic of Indonesia is a country in Southeast Asia, located on the equator and between the Asia and Australia continents and between the Pacific and Indian oceans. Indonesia, since it lies between two continents and two oceans, is also known as the Archipelago Islands. Consisting of 17,508 islands, Indonesia is the largest archipelago in the world that spreads from Sabang to Merauke. The country is passed by the equator line, making it has a tropical climate with two seasons, dry and rain season. The tropical climate makes Indonesia has one of the greatest biodiversity in the world, the second after Brazil. You can find some biodiversities, anything from rain forests, great lakes, long rivers, high mountains, amazing under-water corals, etc., in Indonesia.

Each corner in Indonesia has a lot of exciting things. Indonesia, with a population of 260 million people in 2010, is the fourth most populous nation and the most populous Muslim country in the world, although not officially an Islamic state. Jakarta is the Indonesian capital city. The borders of the country include Malaysia on Borneo Island, Papua New Guinea on Papua, and East Timor on Timor Island. Other neighboring countries include Singapore, Philippines, Australia, and the union territory Andaman and Nicobar Islands in India. Indonesia, from Sabang to Merauke, consists of distinct ethnics, linguistics, and religious groups. Java is the largest tribe and most politically dominant. Indonesian national motto, "Unity in Diversity", represents the country.

Indonesia has 34 provinces, including Yogyakarta (or locally called Ngayogyakarta Hadiningrat). Yogyakarta is one of famous provinces in Indonesia, not only known well by local, but also international tourists because of its nature and culture. Yogyakarta was founded by Prince Mangkubumi (Sultan Hamengku Buwono I) in 1755 as a result of Giyanti Agreement. It grew up into a city rich in Javanese cultures and arts.

The centerpiece of the development of art and culture is the empire. A variety of classical Javanese arts, such as dances, songs, geguritans, gamelans, paintings, literatures, and carvings, were developed from the palace. Later, the arts IPSS International Pharmacy Summer School 4 become folklores.

The unity of the community and artistic values is strong, making Yogyakarta never runs out of trained artists. In addition to cultures, ancient architectural treasures, such as Water Castle, Sultan Palace, Pakualaman Palace, Prambanan Palace, and various Museums, also have their own magical things for the tourist, both local and international. These entire exciting things make Yogyakarta becomes the second primary regional tourism destination in Indonesia.



## UNIVERSITAS MUHAMMADIYAH YOGYAKARTA

Universitas Muhammadiyah Yogyakarta (UMY) is a university in Yogyakarta, one of the most beautiful cultural cities in Indonesia. UMY is one of universities owned and managed by “Center of Muhammadiyah Council”, one of the religious mass organizations in Indonesia. UMY was founded on March, 26th, 1981. It has 7 major faculties, including Faculty of Islamic Religion, Faculty of Economy, Faculty of Law, Faculty of Social and Political Sciences, Faculty of Medicine and Health Sciences, Faculty of Agriculture, and Faculty of Engineering.

UMY offers a number of facilities for its students. The facilities include Knowledge Learning Center (KLC) Library coming with a lot of journal collections from PROQUEST and EBSCO, Center of Language Training of UMY having qualified English programs (e.g. English for Public Speaking, English for Learning Purpose, English for Paper Writing, and TOEFL Preparation), UMY First allowing you to connect with internet in a simple way with hotspot and Wi-Fi facilities, futsal, and jogging tract along university area.

Universitas Muhammadiyah Yogyakarta is one of the best private universities in Indonesia, according to Webometrics (July 2011). Universitas Muhammadiyah Yogyakarta is also in the fourth position of the world’s top islamic university as a result of UniRank in 2021. With its tagline “Muda Mendunia”, UMY is ready to be a qualified university to think globally and act locally.

## IPSS PROGRAMS

### EDUCATIONAL PROGRAM

#### A. COMMUNITY BASED

##### 1. Inbio-Indonesia Company in Virtual Visit

The primary aim of this activity is to give knowledge about bioinformatics, namely the process of drug discovery and development through computational techniques. In this activity, participants will be introduced to a bioinformatics company, Inbio-Indonesia, about how to utilize technology in the drug recovery process.

##### 2. SYN BIO.ID Company in Virtual Visit

The primary aim of this activity is to give knowledge about bioinformatics, namely the process of drug discovery and development through computational techniques. In this activity, participants will be introduced to a bioinformatics company, Indonesia Synthetic Biology Foundation about how to utilize technology in the drug recovery process.

#### B. CAMPUS BASED

##### 1. Tutorial

Tutorial is a small-group discussion. Each participant will gain one perception among other participants and lecturers. This discussion is based on a problem that had been lectured by tutors. The result of this discussion brings conceiving think about the issues in herbal medicine. This activity will invite some lecturers from The School of Pharmacy of Universitas Muhammadiyah Yogyakarta

##### 2. Lecture

Participants will get four main lectures that will be delivered by experts on topic material related to the theme of this activity, namely “Utilization of Technology in Drug Discovery for Pharmacy in Post Pandemic Era”

##### 3. Practice of Bioinformatics in Drug Discovery

This practice activity will present a video about take advantage of computational technology molecular docking method as an alternative predicting affinity the bond between one compound ligand and a target protein molecule. Participants can watch the video together at the large forum and then hold a discussion together

#### 4. Interprofesional Education

Interprofessional Education (IPE) is a process in which a group of students or healthcare professionals who have different professional backgrounds study together in a certain period, interacting as a primary objective, and to collaborate in promotive, preventive, curative, rehabilitative, and any other type of health services.

Through Interprofessional Education, various health professionals are expected to increase the ability of interprofessional and to give the ability in collaborating, improving the practice in order to complement each other, forming an action together to improve service and trigger changes; applying critical analysis to collaborative practice, improving outcomes for individuals, families, and society; responding fully to their needs, students can share their experiences and contribute to the progress and mutual understanding in the interprofessional learning in responding to questions, at conference and through professional and interprofessional literature.

#### 5. Assesment

For all education programs, there will be an assessment process in the form of Pretest, post test, and Multiple Choice Question (MCQ). The questions are from some of the materials that have been given in the stadium general.

### **NON EDUCATIONAL PROGRAMS**

#### 1. Culture Session

participant will be given the opportunity to introduce the culture of their respective country or region of origin. The culture that is introduced can be in the form of traditional clothes, traditional houses, special foods, songs, traditional dances and many more.

## REGISTRATION

Pharmacy students and fresh graduates with the background of bioinformatics and biotechnology can enroll in International Pharmacy Summer School (IPSS) 2022, which is held by HIMFA (Pharmacy Student Association), School of Pharmacy of Faculty of Medicine and Health Science, Universitas Muhammadiyah Yogyakarta (UMY).

IPSS is not only about collecting score, but it is about gaining knowledge and experience about “Utilization of Technology in Drug Discovery for Pharmacy in Post Pandemic Era”. Regarding to this mater, it is fine if you are the 1st semester students or you have no idea about what is bioinformatic and biotechnology. IPSS will be a perfect opportunity for you to learn about bioinformatic and biotechnology. IPSS also welcomes you, the fresh graduate pharmacy students, who are already familiar with bioinformatic and biotechnology and still want to gain more knowledge. You can see more information about the application forms, documents, terms and conditions, and other things you should prepare in IPSS 2022. In short, IPSS is available for all students and fresh graduates, who want to learn about bioinformatic and biotechnology.

International Pharmacy Summer School

## DETAILS AND PAYMENT

1. Visit our website on <http://linktr.ee/ipssumy>
2. Click on registration
3. Fill out the form in the registration section
4. At the end of the form there will be a whatsapp group link so you can join
5. **FREE REGISTRATION** for all pharmacy students



## CONTACT INFORMATION

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