

Indonesia International Institute for Life Sciences

# Rector's Annual Report

## 2022/2023



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## Profile

Indonesia International Institute for Life Sciences (i3L) is a premium life sciences higher education and research institute located in Jakarta, Indonesia. Currently, i3L offers eight undergraduate programs. The i3L School of Life Sciences offers undergraduate programs in Biomedicine, Bioinformatics, Biotechnology, Food Science and Nutrition, Food Technology, and Pharmacy. The i3L School of Business offers an undergraduate program in International Business Management and Master program in Bio Management.

## Vision

To be a leading and globally-connected interdisciplinary institution that impacts society through science and innovation.

## Missions

1. To deliver an inter-, multi-, and transdisciplinary education in life sciences at an international level, as well as to support the development of our students' scientific and entrepreneurship thinking in accordance to their disciplines.
2. To conduct collaborative research and development activities in life sciences and business with other higher education institutions, the business sector, and the government.
3. To develop innovations in life sciences and implement to improve Indonesia's quality of life.
4. To maintain a continued collaboration with the government and both local and international higher education institutions in order to implement the Tridharma activities.

## Values

1. Grit
2. Role-Model
3. Integrity

To realize its vision, i3L strives to harness national resources for accelerating Indonesia's competitiveness in the global landscape. With its top-quality faculty, state-of-the-art facilities, and global collaborations with academics, industries, communities, and governments, i3L is dedicated to offering a distinctive, interdisciplinary, and integrative learning environment aimed at cultivating a new generation of leaders and entrepreneurial scientists.

## i3L's Highlight

i3L has achieved remarkable milestones, cementing its status as a prominent institution in the field of life sciences. The dedication and commitment of the i3L community have resulted in significant accomplishments across various domains, including study program accreditation, faculties' research and community service activities, and student academic and non-academic competitions.

### **i3L's study programs have obtained accreditation from LAM**

First and foremost, i3L's study programs have obtained accreditation from LAM, highlighting the institution's commitment to providing high-quality education. These accreditations validate the rigorous academic standards and the exceptional curriculum offered by i3L, ensuring that students receive a comprehensive and industry-relevant education. The recognition further enhances the institution's reputation and sets a benchmark for excellence in life sciences education. Specifically, Biomedicine Bachelor's Program has obtained "Unggul" accreditation from Lembaga Akreditasi Mandiri Perguruan Tinggi Kesehatan [LAM-PTKes], as stated in the decision letter number 0968/LAM-PTKes/Akr/Sar/XI/2022. Meanwhile, Biotechnology Bachelor's program has been accredited "Unggul" by Lembaga Akreditasi Mandiri Sains Alam dan Ilmu Formal [LAMSAMA], as stated in the decision letter number 020/SK/LAMSAMA/Akred/S/XII/2022. Last but not least, Bioinformatics has obtained "Baik Sekali" accreditation from Lembaga Akreditasi Mandiri Informatika dan Komputer [LAM INFOKOM], as stated in the decision letter number 021/SK/LAM-INFOKOM/Ak/S/III/2023.

Furthermore, i3L's community has demonstrated exceptional academic and non-academic abilities through their participation and victories in various competitions. Whether it be national science olympiads, business plan competitions, or artistic endeavors, the i3L community has showcased their talent, intellect, and versatility. These accomplishments are a testament to the comprehensive and holistic education provided by i3L, which not only focuses on academic excellence but also nurtures students' personal and professional growth.



## Best New Participating University in Indonesia Award from the University of Indonesia's Greenmetric Ranking

i3L has been awarded as the Best New Participating University in Universitas Indonesia Greenmetric Ranking in December 2022. This emphasizes i3L commitment to become a major institute that will contribute to a better and more sustainable future.



## i3L Student Won the Silver Medal at KN-MIPA 2022

Joan Nadia from Biomedicine 2022 has won the Silver Medal at the Kompetisi Nasional Ilmu Pengetahuan Alam dan Matematika [KN-MIPA], Biology category. The national selection was held offline on September 19-25, 2022, at Brawijaya University.



## Pharmacy Students won the PHARMANOVA 2023 Competition

Three of the i3L students won the competition of PHARMANOVA 2023 held by HMF 'Ars Praeparandi' Institut Teknologi Bandung. Virlia, Clarabelin, and Kim Jung Yeu from Pharmacy 2020 won 2nd place in the competition.



i3L has proudly showcased its unwavering commitment to fostering collaborations with esteemed international and national partners, elevating education, research, and community service. With a steadfast focus on global engagement, i3L has forged impactful alliances to fuel academic excellence and extend its reach beyond borders. Through these fruitful partnerships, i3L has effectively bolstered its capacity to deliver outstanding educational programs, conduct groundbreaking research, and actively serve the community, strengthening its position as a leading institution at the forefront of innovation and international cooperation.

### **i3L - University of Dundee - Combiphar Partnership Launching**

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## A Visit from Leeds Beckett University

Joe Rossiter, Associate Director for International Recruitment and Partnership from Leeds Beckett University, visited i3L on November 28, 2022. Mr. Rossiter had an initial discussion with the i3L School of Business [iSB] about a potential collaboration in international programs.



## Powertalk: Risk Assessment, Management, and Communication for Consumer Products

Hailing from Procter & Gamble [P&G] Singapore, Principal Scientist Dr. Seok [Soga] Kwon, Ph.D. shared his expertise on toxicology and product safety at the lively hybrid Powertalk on November 29, 2022. His topic, “Risk Assessment, Management and Communication for Consumer Products”, touched upon the safety assurance of consumer products by applying a risk assessment-based approach and employing risk management measures and communication among stakeholders.





## Power talk: NGS from an Industry Perspective

On December 15, 2022, i3L had a chance to invite two professional experts from Vazyme Biotech Indonesia to deliver a Power Talk: Ms. Gu Shanshan [Head of Technical Support and R&D Director Engineer] and Ms. Lindi Trisno, MBBS [Technical Support]. They both discussed traditional sequencing, second-generation sequencing, and single-molecule sequencing as well as their application.



## Memorandum of Understanding Signing with Pusat Mikrobiologi Terapan, Badan Riset Inovasi Nasional (BRIN)

On Wednesday, October 26, 2022, Pusat Mikrobiologi Terapan, BRIN [Badan Ristek dan Inovasi Nasional] was represented by Ahmad Fathoni, Ph.D. and i3L was represented by Katherine, S.T., Ph.D. signed a collaboration agreement for the research “Bioassay Inhibisi 3CL Protease SARS Cov 2 oleh Herbal Hasil Uji In Silico i3L dan Rekayasa Protein Penicillin G Acylase Secara In Silico.”





## David Agustriawan, S.Kom., M.Sc., Ph.D., was invited as a speaker at an event held by LLDIKTI 3

On November 30, 2022, the Head of the Department of Bioinformatics, David Agustriawan, S.Kom., M.Sc., Ph.D., was invited as a speaker at an event held by LLDIKTI 3 titled "A Strategy for a New Lecturer to Write a Scientific Article, to Plan and Achieve a Lecturer Functional Position." This activity was conducted in hybrid, with about 190 online participants and 50 on-site participants from LLDIKTI 3.



## Ready for the World! - i3L Graduated 159 Graduates

After two years of holding the Graduation Ceremony online due to COVID-19 restrictions, i3L held its first onsite graduation, which took place on Saturday, December 10, 2022. The opening of the graduation ceremony was marked by the sounding of the gong by the Rector, Ms. Katherine, S.T., Ph.D. There are 159 graduates who managed to graduate on time. The graduation ceremony itself was held in two sessions on the same day.

Mr. Vidjongtius, President Director of PT. Kalbe Farma, Tbk. as Representative of the i3L Advisory Board, congratulated i3L and all graduates from the class of 2022 for the achievements obtained. He also expressed his support for the graduates to continue to be proactive when working. In addition, Mr. Vidjongtius hoped that i3L graduates would later become specialists who are truly experts in their fields and can create useful innovations in the future.



### Alumni Gathering 2022: i3L Alumni Reunion (iON) 2022

iLumni [i3L Alumni] Reunion [iON] 2022: The Beginning is an alumni gathering event held every 5 years to commemorate the growing community of i3L graduates. The event was held on Saturday, October 22, 2022, in the i3L Auditorium and was attended by alumni from 5 different cohorts, as well as the rector, deans, and faculties. The event was opened by social hour where the alumni can catch up with each other. This was followed by a greeting from the rector, a presentation of the token of appreciation to the iLumni Association 2020-2022, and performances from alumni as well as from i3L Club and Communities. The night was closed by a networking dinner and a photo session.



## i3L Recycle (i3R) Program

The “i3L Recycle (i3R)” was initiated by the Student Council of i3L (SCi), the program aimed to increase the recycling rate by accommodating the community with an easy-to-access recycling station. SCi also collaborates with a recycling company called Duitin. With a booking made on the Duitin Picker application, SCi scheduled a trash pick-up date and asked Duitin to get the recyclables cleared from the campus building.



The program was successful with a total of 90 donors, collecting recyclables that amount to 1,386 pcs of plastic containers, 134 kg of paper, 4,1 L of used cooking oil, 34 glass bottles, and other miscellaneous [21 pcs multilayer boxes, 15 kg of cardboards]. It has collected plenty of recyclables, given them second lives, and made remarkable progress in transforming i3L into a better solution for the community, Jakarta, and the world.

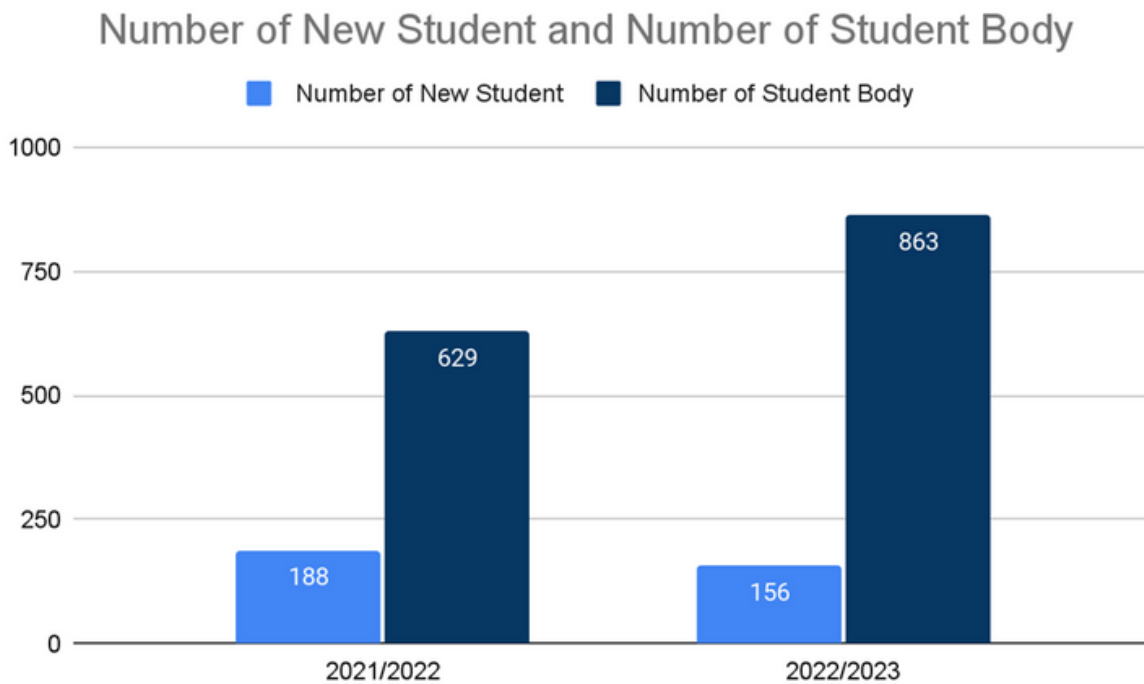
In summary, the academic year 2022/2023 has been marked by remarkable achievements for i3L. From study program accreditations to faculty and student accomplishments in research grants, academic competitions, and community service, i3L has demonstrated its commitment to excellence in the field of life sciences. These accomplishments exemplify the institution's dedication to fostering a conducive learning environment, cultivating research and innovation, and positively impacting society through education and community engagement.



## Student

### i3L's study programs have obtained accreditation from LAM

i3L proudly welcomed a significant number of new students, continuing its trend of steady enrollment growth over the past four academic years. The institution experienced a slide drop in student admissions, reflecting that prospective students often wrestle with the decision of whether to attend a public university or study abroad. Another challenge is the low of interest of prospective students in the Life Sciences and Business at i3L. The chart below shows the number of new students and the number of student body in the 2021/2022 and 2022/2023 Academic Years:

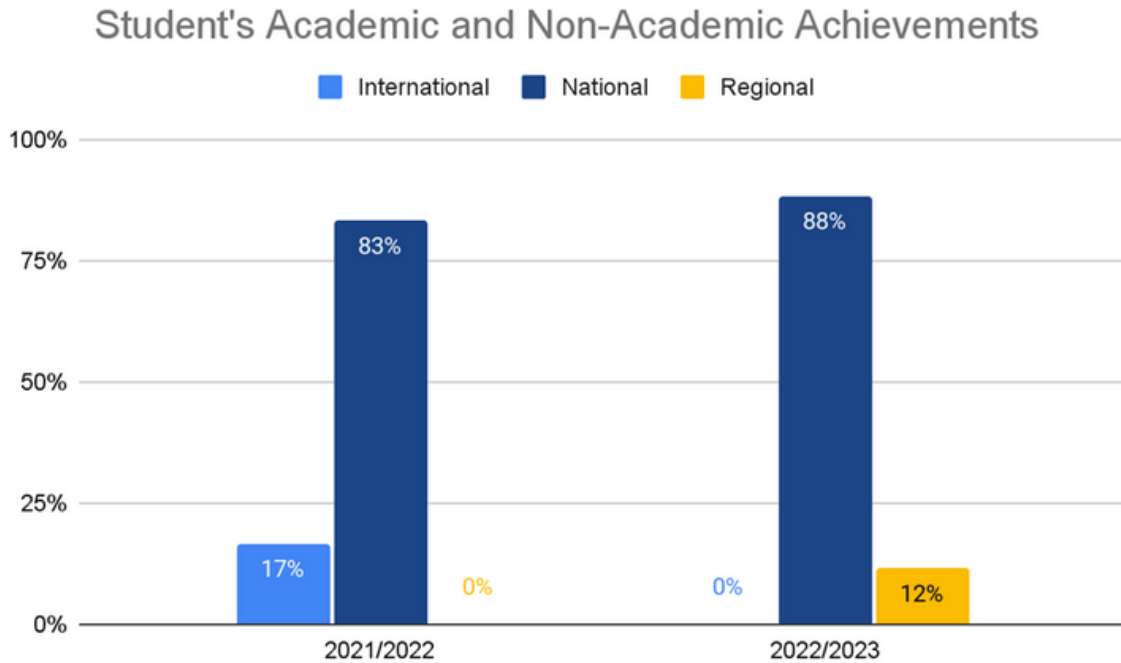


i3L experienced a notable influx of new students, reflecting the institution's growing reputation and appeal across various regions. Most enrolled students hailed from prominent cities such as Jakarta, West Java, DI Yogyakarta, East Java, and Sulawesi. This diverse geographical distribution highlights i3L's ability to attract talented individuals from different parts of Indonesia. Furthermore, i3L's commitment to internationalization is evident in the enrollment of students from various nationalities, underscoring its global reach and appeal. Over the past four academic years, i3L has consistently attracted a diverse student body, fostering a rich multicultural learning environment that enhances cross-cultural understanding and collaboration.



Over the past three academic years, i3L students have showcased exceptional academic and non-academic achievements, leaving an indelible mark on both the regional and national stages of competitions.

The chart below is a student's academic and non-academic achievements in the 2021/2022 and 2022/2023 Academic Years:



Regarding student academic achievements, Daphne Tan, a Food Science and Nutrition student from the cohort of 2021, demonstrated exceptional dedication and talent by achieving remarkable accolades. She was the First Winner in Sahid University's Food and Nutrition Festival 2023, from December 20, 2022, to February 11, 2023. Similarly, Richelle Bertly Josefano, a Bio Technology student from the cohort of 2020, emerged as the first-place winner in the University of Airlangga's Edusafe Patient Safety Competition, held from December 2022 to January 2023.

Switching to non-academic achievements, Muhammad Bagus Darmawan, a Business and Entrepreneurship student from the cohort of 2021, secured the second runner-up position in the Wapres Cup Pencak Silat Championship, held from December 23 to 25, 2022. Hilbert Siauwanda, a Bio Technology student from the cohort 2020, claimed the top spot as the favorite winner in the University of Brawijaya's ART Insorment 2023: Photography competition, which took place from December 2022 to February 2023.

i3L's students also have participated in the 2023 MBKM Program, with 14 students participating in the Indonesian International Student Mobility Awards (IISMA) program. They had the opportunity to study at host universities including Radboud University, the University of California, the University of Leeds, Korea University, National Taiwan University, the University of Melbourne, and so on. On a national level, 16 students successfully completed the MBKM program, which included Magang dan Studi Independen Bersertifikat [MSIB], Wirausaha Merdeka [WMK], Program Kreatif Mahasiswa [PKM], and internships at institutions like Badan Riset dan Inovasi Nasional [BRIN].

In addition to the MBKM program, 9 students are actively participating in the Outbound Mobility Program, generously supported by i3L. This includes engaging in the Taiwan Experience Education program at National Chung Hsing University in Taiwan. Furthermore, there are other programs hosted at UCSI in Malaysia and Taipei Medical University in Taiwan, offering non-credit internships and enrichment opportunities. Additionally, 38 students have successfully completed their thesis abroad programs at esteemed institutions such as Queen's University Belfast in the United Kingdom, the University of Dundee in Scotland, The Hong Kong University of Science and Technology [HSUST] in Hong Kong, the University of Tokyo in Japan, and Soonchunhyang University in South Korea.

These achievements underscore the effectiveness of i3L's educational programs in nurturing its students' intellectual capabilities and critical thinking skills. The consistent success of i3L students in competitive environments further exemplifies the institution's commitment to providing a supportive and conducive learning environment, equipping students with the necessary knowledge and skills to thrive in the global academic landscape.

## Lecturer

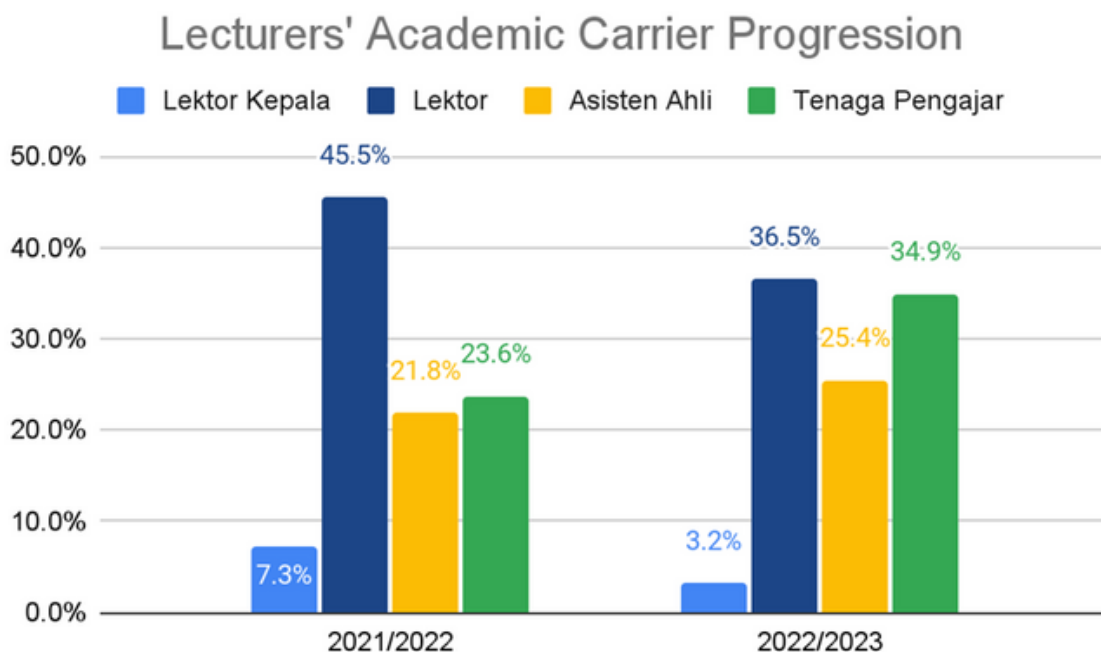
### i3L's study programs have obtained accreditation from LAM

i3L's lecturers have obtained advanced degrees from reputable universities both domestically and internationally, reflecting their commitment to continuous learning and academic excellence. Moreover, i3L emphasized the progression of lecturers' academic careers, providing support and opportunities for professional development and research. The table below is a percentage of the lecturers' qualifications based on last education in the 2022/2023 Academic Years:

	Doctoral	Master
2022/2023	56%	44%

The i3L's lecturers' last education is dominated by doctoral degrees. Moreover, i3L's lecturers need to have a combination of technical skills, good English language skills, soft skills, and organizational experience. In Indonesia, the number of universities continues to increase from year to year. This leads to an increasing demand for qualified and competent lecturers. However, there are challenges in finding suitable candidates for prospective lecturer positions, such as the limited talent pool to meet lecturer qualifications according to the needs of each college in realizing the tri dharma of higher education as a whole.

The chart below is a percentage of the lecturers' academic carrier progression [JJA] in the 2021/2022 and 2022/2023 Academic Years:



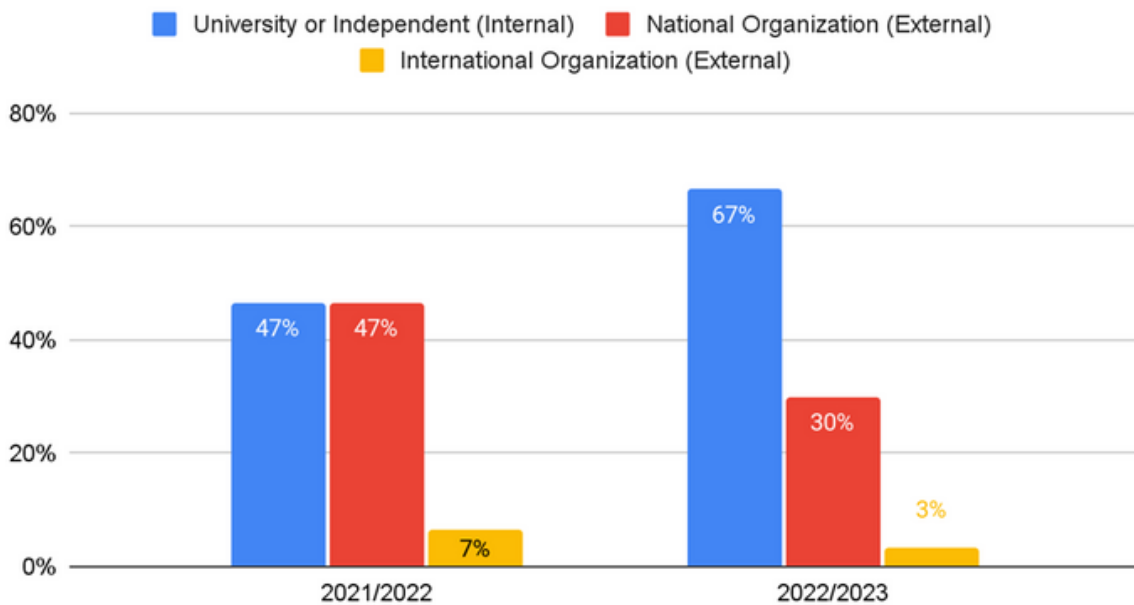
There is a decrease in the percentage of Lecturers' Career Progression (JJA) at the Lektor and Lektor Kepala levels, due to new faculties joining in the 2022/2023 academic year.



## Research and Community Service

i3L demonstrated a strong commitment to prioritize research output as a key focus area. Recognizing the crucial role of research in advancing knowledge and driving innovation, i3L dedicated significant resources and support to foster a vibrant research environment. The chart below is a percentage of the lecturers' research productivity based on the Funding Sources in the 2021/2022 and 2022/2023 Academic Years:

Lecturers' Research Productivity by Funding Source



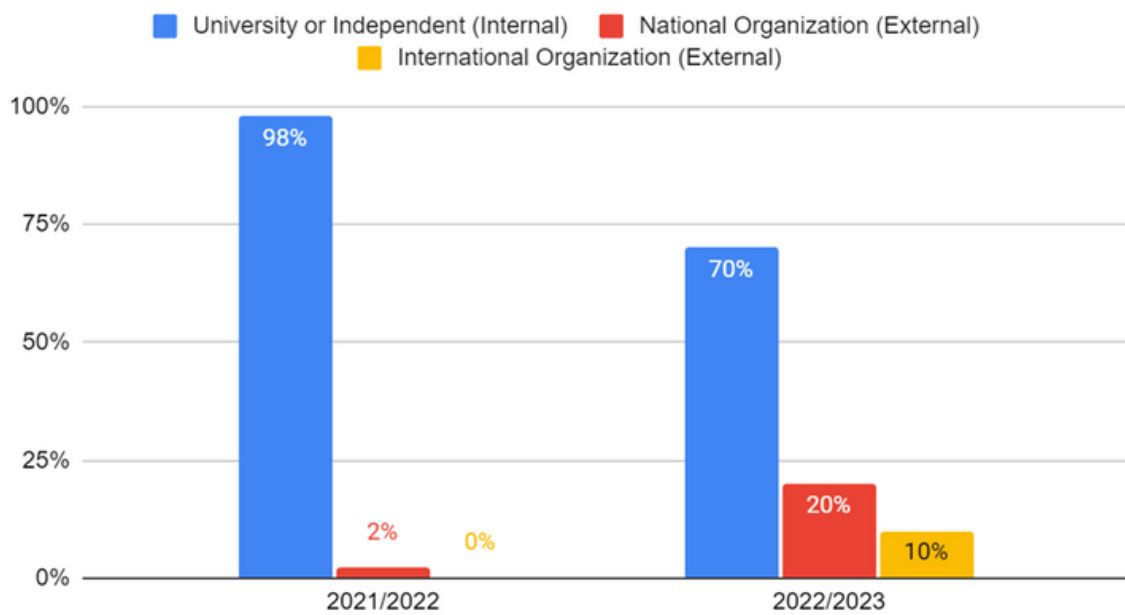
The data changes for the academic year 2022/2023 were instigated by several research funds implemented during the previous academic year and submitted for institutional accreditation purposes. Furthermore, due to the new faculty joining, new faculty members are required to allocate time for administrative tasks, such as NIDN [National Lecturer ID Number] and JJA [Lecturers' Academic Career Progression], before applying for national grants.

i3L has been a part of various worldwide joint initiatives during the AY 2022-2023. First off, we are pleased to report that SEA EU - JFS has provided funds for an international project that is being carried out in collaboration with Tuebingen University Hospital in Germany and Mahidol University in Thailand. Another research, which is being carried out in conjunction with Queen's University Belfast in England and the University of Indonesia, has also received funding from DIKTI.

Furthermore, two internal grant initiatives at I3L are underway and entail cooperation with prestigious foreign partners on both occasions. One project has a connection with the Osaka University, Japan while the other has one with the Kuang Tien General Hospital [KTGH] Cancer Center in Taiwan.

The chart below is a percentage of the lecturers' community service productivity based on the Funding Sources in the 2021/2022 and 2022/2023 Academic Years:

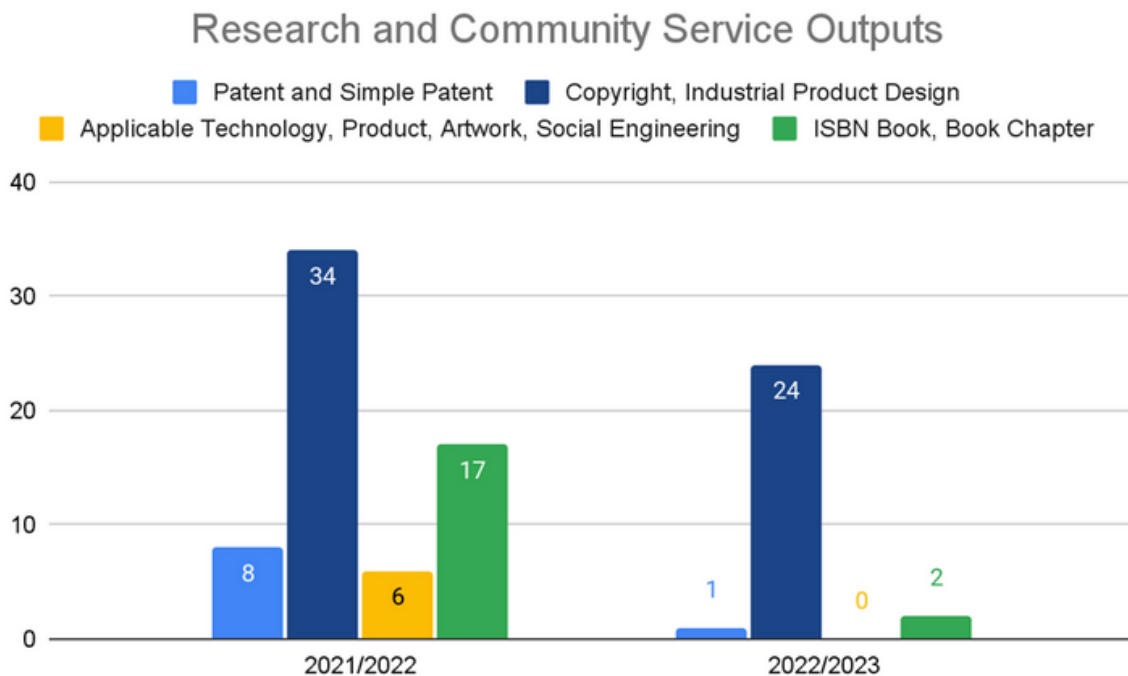
Lecturers' Community Service Productivity by Funding Source



i3L engages in community service initiatives that receive funding from two national sources, notably, the Biomanufacturing Training Program in collaboration with a prominent national company. These projects are facilitated by i3L lecturers who possess expertise in the fields of biotechnology, biomanufacturing, and pharmaceutical industries. Additionally, i3L collaborates with a national company to conduct a Sensory Evaluation Training program. A representative from i3L is designated to assist in delivering comprehensive insights to the panelists on topics such as 'Sensory Evaluation of Food and Beverage' and 'The Role of Smell Senses in Assessing Odor and Aroma'.

## Outputs

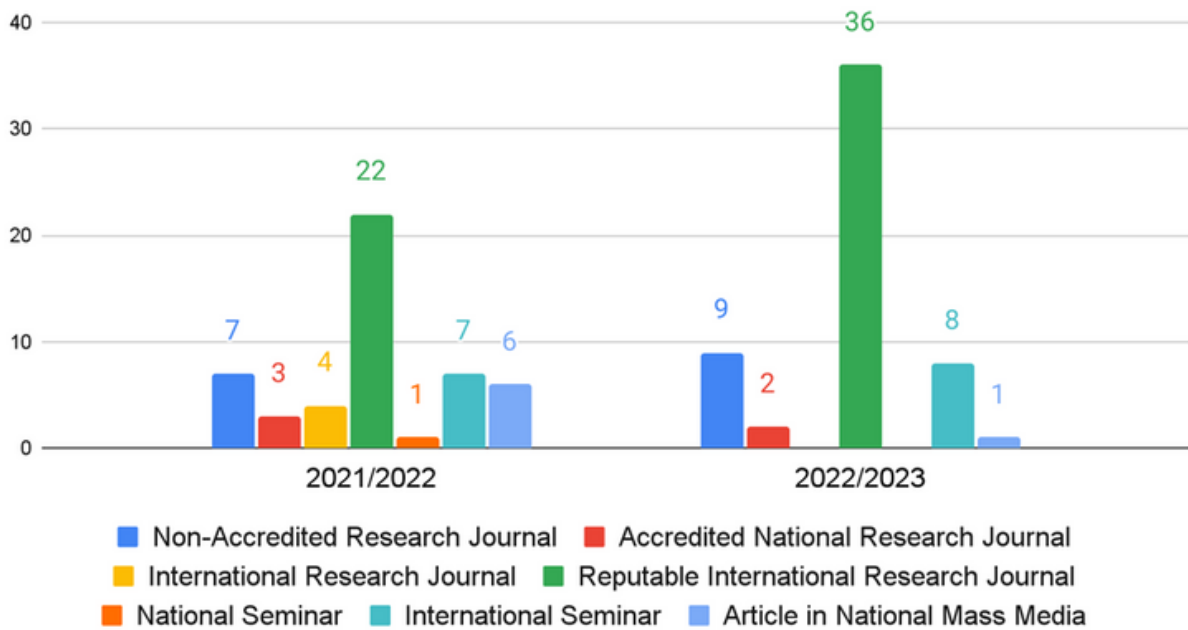
i3L demonstrated a strong focus on research and community service outputs, with a particular emphasis on patent copyrights and academic publications. The institution actively supported and encouraged its faculty and students to engage in innovative research projects that have potential commercial value and societal impact. By prioritizing patent copyrights and academic publications, i3L has reinforced its commitment to research excellence, innovation, and knowledge dissemination, further solidifying its position as a leader in the field of life sciences and business. The chart below is a number of the research and community service output in the 2021/2022 and 2022/2023 Academic Years:



i3L has contributed to a range of outputs during the AY 2022-2023, including 24 research outputs in copyright and industrial product design, comprising 16 research outputs and 8 Community Service outputs. Furthermore, two noteworthy titles have emerged: an ISBN Book and a Book Chapter, such as 'Guideline to Sustainable Water' for the Community Service output and 'Transcriptomics Computational' for the research output.

The chart below is a number of the academic publications in the 2021/2022 and 2022/2023 Academic Years:

## Academic Publications



As depicted in the chart above, it is evident that there has been a notable increase in the publication of reputable international research journal engaged in collaborations with both national and international partners.





Pulomas Barat Kav. 88  
Jakarta Timur, 13210, Indonesia

+6221 295 67899  
+6221 295 67888

i3L\_Official  
i3L Official  
i3L\_Official

admission@i3l.ac.id  
[www.i3l.ac.id](http://www.i3l.ac.id)