

SELLIN LEONY

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SUMMARY

A Pharmaceutical Science and Technology student at Institut Teknologi Bandung (ITB) with experience in cosmetic R&D, formulation development, and natural ingredient research. Passionate about developing innovative and effective products through research-driven approaches, combining scientific knowledge with consumer needs in the beauty and healthcare industry.

RELEVANT EXPERIENCE

- Research and Development Intern — Nayue Kosmetik Indonesia****Aug 2025 - Sept 2025**
- Supported cosmetic R&D activities by developing laboratory-scale prototypes across skincare, makeup, body care, personal care, and hair care categories through formulation trials, ingredient evaluation, and product optimization.
 - Conducted product quality evaluation and raw material documentation, including assessment of texture, viscosity, pH, and stability, to support product development, regulatory compliance, and scale-up readiness.
- Research and Development Intern — EBM Scitech****Jul 2025 - Aug 2025**
- Supported the development of natural-based cosmetic products through skincare formulation trials, prototype preparation, formulation optimization, and laboratory evaluation to achieve desired product performance.
 - Conducted extraction and isolation of natural bioactive compounds and assisted R&D documentation to explore their potential as functional cosmetic ingredients for innovative skincare formulations.
- Sterile Dosage Forms Practicum Assistant — Institut Teknologi Bandung****Feb 2026 - Jun 2026**
- Assisted pharmaceutical formulation and quality evaluation activities for sterile and semisolid dosage forms, applying GMP and aseptic processing principles.
- Phytochemistry Practicum Assistant — Institut Teknologi Bandung****Feb 2026 - Jun 2026**
- Assisted extraction, screening, isolation, and characterization of plant-derived bioactive compounds for potential cosmetic and pharmaceutical applications.

LEADERSHIP EXPERIENCE

- Director of Kekeluargaan, Minat, dan Bakat Division — HMF 'AP' ITB****Jun 2025 - Mar 2026**
- Director of Sponsorship — ITB Fair 2024****Jan 2024 – Jun 2024**
- Head of MSDM Subdivision — Aku Masuk ITB 2024****Dec 2023 – Apr 2024**
- Head of MSDM Division & Mentor — PPAB KMB ITB 2023****Jul 2023 – Oct 2023**

EDUCATION

- Institut Teknologi Bandung****2022 - 2026**

Pharmaceutical Science and Technology
- SMA Maitreyawira Batam****2019 - 2022**
 - Final Grade : 90.02

HONORS AND AWARDS

1st Winner of Research and Development — Pharmacopeia UNPAD 2025 Nov 2025

- Developed **tasea**, a marine-based acne spot repair and calming cream using algae bloom-derived fucoidan and sea lettuce extract as sustainable bioactive ingredients.
- Designed the formulation concept by integrating skin-soothing benefits, active ingredient innovation, and sustainable refillable packaging for green beauty applications.

2nd Winner of Herbal Cosmetic Competition — Science Competition Universitas Sanata Dharma (USD) 2024 Oct 2024

- Developed **Limora**, a herbal sunscreen emulgel formulation for sensitive skin using *Moringa oleifera* leaf extract and *Citrus aurantifolia* peel extract as natural active ingredients.
- Evaluated the product concept by integrating antioxidant properties, skin protection benefits, and consumer demand for plant-based cosmetic solutions.

3rd Winner of Industrial Skills Event — IPSF PharmaOlympics 2025 Jul 2025

- Reformulated a liposomal-based night cream, **LipoRet-B**, by integrating advanced delivery technology with skincare formulation principles.
- Developed product positioning and marketing strategy based on consumer needs in the dermocosmetic market, emphasizing efficacy, innovation, and user experience.

Top 5 Finalist of Industrial Case Competition — Pharmacious UGM 2025 Aug 2025

- Developed **Darling**, a hydrogel-based moisturizer gel utilizing galactomannan extracted from kolang-kaling (*Arenga pinnata*) byproducts and dragon fruit peel (*Hylocereus polyrhizus*) extract.
- Proposed an innovative green beauty concept by transforming agricultural waste into functional cosmetic ingredients with moisturizing and antioxidant potential for tropical skin conditions.

1st Winner of Industrial Case Competition — Pharmadays UGM 2025 Aug 2025

- Developed **MomoBear**, a 2-in-1 functional snack innovation, Herbal Tea Gummy, combining a chewable gummy format with instant herbal tea functionality. Designed the product concept through herbal ingredient selection, encapsulation strategy, and consumer-oriented product development to improve convenience and acceptance of herbal products.

2nd Runner-Up of Industrial Skills Event — 24th IPSF APPS 2025 Jul 2025

- Presented an end-to-end pharmaceutical product development strategy for Rifaxenta 150 mg Enteric-Coated Tablets, covering manufacturing, quality, regulatory, and marketing role-play to demonstrate integrated pharmaceutical industry understanding.

1st Winner of Pharmaceutical Industrial Case Study — Pharmanova ITB 2026 Feb 2026

- Developed a biosimilar atezolizumab strategy by evaluating bioprocess optimization and PD-L1 biomarker stratification approaches to improve production efficiency and accessibility of biologic therapies in Indonesia's healthcare system (JKN).

Top 5 Finalist of Pharmaceutical Industrial Case Study — Pharmanova ITB 2025 Feb 2025

- Developed a gene therapy strategy for Brugada Syndrome by proposing cardiac-targeted lipid nanoparticle delivery systems to improve precision in delivering genetic therapeutics for inherited cardiovascular disorders.

1st Winner of National English Genetic Essay Competition — GENOME Indonesia International Institute of Life-Sciences (i3L) Mar 2025

- Proposed a biotechnology-based therapeutic strategy for Duchenne Muscular Dystrophy (DMD) through CRISPR-Cas9 gene editing combined with biomaterial-based delivery systems to improve targeted and personalized treatment approaches.

Ganesha Karya Awardee (5x) — Anugerah Citra Ganesha Nov 2025

- Received 5 Ganesha Awards across five competitions, including Pharmaceutical Industrial Case Competition (3x), Herbal Cosmetic Innovation, and Genetic Scientific Essay Competition.