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| Nama Lengkap (dengan gelar) | : | Dr. Sci. apt. Beni Lestari, S.Farm., M.Bio.Sci. |
| Tempat dan Tanggal Lahir | : | Boyolali, 4 Desember 1993 |
| Departemen/Jurusan/Fakultas | : | Departemen Farmakologi dan Terapi, FK-KMK |
| Perguruan Tinggi/Instansi | : | Universitas Gadjah Mada |
| Nama dan Alamat Kantor | : | Jl. Farmako Sekip Utara Yogyakarta, Indonesia |
| Alamat Email | : | beni.lestari11@gmail.com |
| Bidang Keahlian/Kepakaran | : | Biologi molekuler, Farmakologi molekuler |
| Sub bidang kepakaran | : | Biologi developmental, Etnofarmakologi, Drug Discovery  |

1. **Riwayat Pendidikan**

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| Jenjang | Nama Universitas | Negara | Bidang Studi | Judul Penelitian | Tahun Lulus |
| S1 | Fakultas Farmasi UGM | Indonesia | Etnofarmakologi, Nutrasetika | Supplementation with extract of pumpkin seeds exerts estrogenic effects upon the uterine, serum lipids, mammary glands, and bone density in ovariectomized rats | 2015 |
| Profesi | Apoteker, Fakultas Farmasi UGM | Indonesia | Farmasi klinikFarmasi sains dan teknologi |  | 2016 |
| S2 | Nara Institute of Science and Technology | Jepang | Tumor biology, Farmakologi dan Terapi | Pentagamavunon-1 (PGV-1) inhibits ROS metabolic enzymes and suppresses tumor cell growth by inducing M phase (prometaphase) arrest and cell senescence | 2019 |
| S3 | Tokyo Institute of Technology | Jepang | Biologi molekuler, biologi developmental, farmakologi molekuler | Placental mammals acquired functional region and domain in NRK for regulating the CK2-PTEN-AKT pathway and placental cell proliferation | 2023 |

1. **Kegiatan Penelitian dan Kerjasama Yang Sesuai dengan Usulan Rekacipta (5 tahun terakhir)**

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| --- | --- | --- | --- | --- |
| **No** | **Judul**  | **Sumber Dana** | **Peran** | **Tahun** |
| 1 | Doctoral student project:Exploring Mammalian-Specific Gene Function for Preventing Placenta Hyperplasia and Breast Cancer Development Efficacy Evaluation of Pharmacological USP8 Inhibition Therapy in Human Cushing’s Disease | Tokyo Institute of Technology (Tokyo, Japan) | Ketua | 2020-2023 |
| 2 | Master student project:Exploration of a New Curcumin Analog as an Anti-Tumorigenic Agent through the Cell Cycle and ROS Metabolic PathwaysExploring the Role of GSTO1 in Cellular Stress Pathway of K562 Cells | Nara Institute of Science and Technology (Nara, Japan) | Ketua | 2017-2019 |
| 3 | Research Assistant at CCRC:Pengembangan Produksi Bahan Baku ObatBerbasis Biosimilar Recombinant HumanErythropoetin | PPTI project with Biofarma Tbk. | Asisten peneliti | 2015-2017 |
| 4 | Research Assistant at CCRC, Faculty of Pharmacy, Universitas Gadjah Mada:Validasi Metode Uji Efek Genotoksik untuk Produk Herbal dan Bahan Tambahan Makanan | PDUPT project | Asisten peneliti | 2015-2017 |
| 5 | Bachelor thesis project:Supplementation with extract of pumpkin seeds exerts estrogenic effects upon the uterine, serum lipids, mammary glands, and bone density in ovariectomized rats | Faculty of Pharmacy, Universitas Gadjah Mada | Ketua | 2014-2015 |
| 6 | Research grant PKM-P:Inovasi Agen Antimetastasis Tertarget MMP-2 dan MMP-9 Berbasis Kombinasi Daun Jure (*Nerium indicum*) dan Kayu Manis (*Cinnamomum burmannii*) dalam Rangka Mengatasi Kanker Ganas | Directorate General of Higher Education of Indonesia (DIKTI) | Ketua | 2015 |

1. **Publikasi Ilmiah Dalam Tiga Tahun Terakhir Yang Sesuai dengan Usulan Rekacipta (5 tahun terakhir)**

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| --- | --- | --- | --- | --- |
| No | Judul Makalah/Buku | Penulis | Nama Jurnal dan Volume/penerbit | Tahun Terbit |
| 1. | Apoptotic and Non-Apoptotic Roles of Caspases in Placenta: Implications for Physiology and Therapy | Beni Lestari, Toshiaki Fukushima, Rohmad Yudi Utomo, Mae Sri Hartati Wahyuningsih | Placenta | In revision |
| 2. | The placental protein NRK promotes cell death through its plasma membrane-localizing CNH domain | Beni Lestari, Kohei Soda, Kei Moritsugu, Akinori Kidera, Yusuke 3.Suenaga, Yoshitaka Hippo, Edy Meiyanto, Masayuki, Komada, Mae Sri Hartati W., Toshiaki Fukushima | JBC | under review |
| 3. | Dense and Acidic Organelle-Targeted Visualization in Living Cells: Application of Viscosity-Responsive Fluorescence Utilizing Restricted Access to Minimum Energy Conical Intersection | Adachi, J., Oda, H., Fukushima, T., **Lestari, B**., Kimura, H., et. al | Analytical Chemistry (Q1, SJR 1.79, Impact Factor: 8.008) | 2023 |
| 4. | Placental mammals acquired functional region and domain in NRK for regulating the CK2-PTEN-AKT pathway and placental cell proliferation  | **Lestari, B.,** Naito, S., Endo, A., Nishihara, H., Kato, A., Watanabe, E., Denda, K., Komada, M., Fukushima, T.) | Molecular Biology and Evolution (Q1, SJR 5.34, Impact Factor: 16.24) | 2022 |
| 5. | CEP55 Inhibitor: Extensive Computational Approach Defining a New Target of Cell Cycle Machinery Agent | **Lestari, B**., Utomo, R.Y. | Advanced Pharmaceutical Bulletin (Q1, SJR 0.66) | 2021 |
| 6. | Preparation and cytotoxic evaluation of PGV-1 derivative, CCA-1.1, as a new curcumin analog with improved-physicochemical and pharmacological properties | Utomo, R. Y., Wulandari, F., Novitasari, D., **Lestari, B**., Susidarti, R. A., Jenie, R.I., Kato, J., Sardjiman, S., Meiyanto, E. | Advanced Pharmaceutical Bulletin (Q1, SJR 0.66) | 2021 |
| 7. | The Target Differences of Anti-Tumorigenesis Potential of Curcumin and Its Analogues Against HER-2 Positive and Triple-Negative Breast Cancer Cells  | Meiyanto, E., Husnaa, U., Kastian, R.F., Pamungkas, D.D.P., Jenie, RI., Kawaichi, M., **Lestari, B**., Yokoyama, T. and Kato, J.Y. | Advanced Pharmaceutical Bulletin (Q1, SJR 0.66) | 2021 |
| 8. | Pentagamavunon-1 (PGV-1) inhibits ROS metabolic enzymes and suppresses tumor cell growth by inducing M phase (prometaphase) arrest and cell senescence  | **Lestari, B**., Nakamae, I., Yoneda-Kato, N., Morimoto, T., Kanaya, S., Yokoyama, T., Shionyu, M., Shirai, T., Meiyanto, E., and Kato, J.Y. | Scientific Reports (Q1, SJR 1.01) | 2019 |
| 9. | Anti-Proliferative and Anti-Metastatic Potential of Pentagamavunon-1 (PGV-1) toward Highly Metastatic Breast Cancer Cells in Correlation with ROS Generation  | Meiyanto, E., Putri, H., Larasati, Y.A., Utomo, R.Y., Jenie, RI., Ikawati, M., **Lestari, B**., Yoneda-Kato, N., Yokoyama, T., Kawaichi, M., Kato, J.Y. | Advanced Pharmaceutical Bulletin (Q1, SJR 0.66) | 2019 |
| 10. | Supplementation with extract of pumpkin seeds exerts estrogenic effects upon the uterine, serum lipids, mammary glands, and bone density in ovariectomized rats  | **Lestari, B.,** Walidah, Z., Utomo, R. Y., Murwanti, R., Meiyanto, E. | Phytotherapy Research (Q1, SJR 1.05) | 2019 |
| 11. | *Caesalpinia sappan* L. heartwood ethanolic extract exerts genotoxic inhibitory and cytotoxic effects | Meiyanto, E., **Lestari, B.,** Sugiyanto, RN., Jenie, R.I., Utomo, R.Y., Sasmito, E., Murwanti, R.) | Oriental Pharmacy & Experimental Medicine (Q3) | 2018 |
| 12. | The Emerging Nutraceutical Potential of Pumpkin Seeds | **Lestari, B.,** & Meiyanto, E.) | Indonesian Journal of Cancer Chemoprevention | 2018 |
| 13. | Comparison of Antimetastatic Activity between *Nerium indicum* and *Cinnamomum burmannii* on 4T1 Cells | **Lestari, B.**, Muntafiah, L., Walidah, Z., Jenie, R. I | Indonesian Journal of Cancer ChemopreventionSinta 2 | 2018 |
| 14. | Reveal Cytotoxicity and Antigenotoxicity of *Piper nigrum* L. Ethanolic Extract and its Combination with Doxorubicin on CHO-K1 Cells | Sari, N. F., **Lestari, B.**, Saputri, D., Ahsani, A. F., Santoso, R. A., Sasmito, E., Meiyanto, E. | Indonesian Journal of Cancer ChemopreventionSinta 2 | 2018 |
| 15. | Evaluation of The Genotoxicity of Three Food Additives using CHO-K1 Cells under in vitro Micronucleus Flow Cytometry Assay | **Lestari, B.**, Novitasari, D., Putri, H., Haryanti, S., Sasmito, E., Meiyanto, E. | Indonesian Journal of Cancer ChemopreventionSinta 2 | 2017 |

1. **Pertemuan Ilmiah berupa Seminar, Konferensi, Lokakarya ( 5 Tahun Terakhir )**

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| **No** | **Tahun** | **Nama Seminar, Konferensi, Lokakarya** | **Penyelenggara dan keterangan** |
| 1 | 2023 | Oral PresenterTitle: Molecular mechanisms underlying tumor suppressor NRK promotes apoptotic cell death | Japan Cancer Association ConferenceYokohama, JapanInternasional |
| 2 | 2021 | Oral PresenterTitle: Rapid Molecular Evolution of NRK for Acquiring Function of Regulating Placental Cell Proliferation | The 2nd AsiaEvo Conference 2021Tokyo, Japan |
| 3 | 2021 | Oral PresenterTitle: Comparative Phylogenetic Analysis and Molecular Characterization Reveal Eutherian-Specific Role of NRK in Regulating Placental Development | The 44th Annual Meeting of MBSJ Japan 2021,Yokohama, JapanInternasional |
| 4 | 2020 | Oral PresenterTitle: CEP55 Inhibitor: Extensive Computational Approach Defining a New Target of Cell Cycle Machinery Agent | The 11th Annual ISCC Conference and CongressYogyakarta, IndonesiaInternasional |
| 5 | 2020 | SpeakerGoing deeply into the method of PGV-1 inhibits ROS metabolic enzymes and suppresses tumor cell growth by inducing M phase arrest and cell senescence | Cancer Chemoprevention Research CenterFaculty of Pharmacy, UGMYogyakarta, Indonesia |
| 6 | 2019 | Poster PresenterTitle: A Novel Curcumin Analog Inhibits Tumorigenesis by Inducing Prometaphase Arrest and Interfering Antioxidant System | NAIST Bio SummercampNara, JapanInternasional |
| 7 | 2019 | SpeakerTitle: Drug Discovery and Development in Indonesia | Indonesian Student Association SeminarOsaka, Japan |
| 8 | 2017 | Oral PresenterTitle: Anti-Migratory and Anti-Invasive Potential of *Nerium indicum* and *Cinnamomum burmannii* Toward 4T1 Metastatic Breast Cancer Cells | Indonesian Students Association Scientific Conference (ISASC-2017), Osaka UniversityInternasional |
| 9 | 2016 | Poster PresenterTitle: Anticancer Activity and Its Genotoxic Evaluation of *Caesalpinia sappan* through HER2 on Breast Cancer Cells | Japan Cancer Association ConferenceYokohama, JapanInternasional |
| 10 | 2016 | Oral PresenterTitle: Genotoxic Evaluation of Saccharin and Sodium Cyclamate as Food Flavorings: In Vitro Studies | Wahid Hasyim International Conference of Advanced Pharmaceutical SciencesSemarang, IndonesiaInternasional |
| 11 | 2015 | Oral PresenterTitle: Antimetastatic Effect of Sirih Merah (*Piper Crocatum* Ruiz & Pav.) Methanolic Extract on 4T1 Metastatic Breast Cancer Cells | Pontianak International Conference on Advanced Pharmaceutical SciencesPontianak, Indonesia |

1. **Lain-lain (Penghargaan, dan sebagainya dalam 5 Tahun Terakhir)**

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| **No** | **Tahun** | **Penghargaan/Perolehan KI** | **Pemberi Penghargaan** |
| 1 | 2022 | Candidate of Ikushi Prize | Tokyo Institute of Technology |
| 2 | 2022 | Ohsumi Journal Award | Prof. Yoshinori Ohsumi (Nobel Prize Winner Foundation) |
| 3 | 2020 | Award of Excellence, The Second Place of Tokyo Tech, Path Breaking Liberal Arts 2020 | Doctoral Liberal Arts Program Administrator |
| 4 | 2020 | Award of Excellence, The Third Place of Tokyo Tech, Path Breaking Liberal Arts 2020 | Doctoral Liberal Arts Program Administrator |
| 5 | 2017 | 1st Winner of RISTEKDIKTI-MTIC Award 2017 | RISTEKDIKTIMartha Tilaar Group |
| 6 | 2016 | Travel grant of the 74th Annual Meeting of Japan Cancer Association (JCA) | Japan Cancer Association |
| 7 | 2015 | KMFA Award for ‘The Best Young Scientist’ | Faculty of Pharmacy, Universitas Gadjah Mada |
| 8 | 2015 | Dean’s Award for ‘The Outstanding Student’ | Faculty of Pharmacy, Universitas Gadjah Mada |
| 9 | 2011-2015 | Grantee of 5 Proposal of PKM-P and PKM-AI | Directorate General of Higher Education of Indonesia (DIKTI) |
| 10 | 2011-2015 | Grantee of Bidik Misi Scholarship for Bachelor Degree | Directorate General of Higher Education of Indonesia (DIKTI) |
| 11 | 2017-2019 | Grantee of Indonesia Endowment Fund for Education (LPDP) Scholarship for Master Degree | LPDP |
| 12 | 2020-2023 | Grantee of MEXT Super Global University Scholarship for Doctoral Degree | MEXT, Japan |

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Yogyakarta, 26 Januari 2024

Dr. Sci. apt. Beni Lestari, M.Bio.Sci.