

CURICULLUM VITAE



Name : **Dr. Deiske Adeliene Sumilat**
Job : Associate Professor
Office address : Faculty of Fisheries and Marine Sciences
Sam Ratulangi University
Kampus Unsrat Bahu 95115. Manado
Indonesia
Phone/Fax : +62 431 868027/ +62 431 868027
Home address : Lingkungan 3, Malalayang 1.
Malalayang Manado 95162 Indonesia
Email : deiske.sumilat@unsrat.ac.id;
deiske.sumilat@gmail.com
Mobile : +62 81212446391

Links

SINTA : <http://sinta.ristekbrin.go.id/authors/detail?id=45186&view=overview>
Google Scholar : <https://scholar.google.co.id/citations?user=CsHKDB4AAAAJ&hl=en>
Scopus : <https://www.scopus.com/authid/detail.uri?authorId=55889871200>
ORCID : <https://orcid.org/0000-0001-9942-7001>
Publons : <https://publons.com/researcher/1809285/deiske-adeliene-sumilat/publications/>

Research Interest

- Marine natural products: marine invertebrates, marine derived fungi

Educations

- **Tohoku Medical and Pharmaceutical University**, Sendai, Japan
2010–2013: Ph.D. at the Marine Pharmaceutical Sciences
- **The University of the Ryukyus**, Okinawa, Japan
1992–1994: M.Sc. in Marine Sciences
- **Sam Ratulangi University**, Manado, Indonesia
1984–1989: Bachelor's in Fisheries Science: Management Resources Aquatic

Teaching Subjects

1. Marine Natural Products Chemistry (Bachelor's Program)
2. Analysis of Marine Natural Products (Bachelor's Program)
3. Marine Pharmacognosy (Bachelor's Program)
4. Marine Bio Pharmacy (Master's Program)
5. Biodiversity of Marine Tropical (Master's Program)
6. Marine Pharma-Nutraceutical (Doctor's Program)

Publications (Sumilat, DA)

International

1. **2021**. Three Bioactive Compounds Against Colony Formation of Chinese Hamster V79 Cells from An Indonesian Ascidian *Didemnum* sp. *Chemistry of Natural Compounds*, **57** (3): 1-2. <https://doi.org/10.1007/s10600-021-03427-6>
2. **2021**. Inhibitory effects of sesquiterpene lactones from the Indonesian marine sponge *Lamellodysidea* cf. *herbacea* on bone morphogenetic protein-induced osteoblastic differentiation. *Bioorganic & Medicinal Chemistry Letters* **35**: 127783. doi: 10.1016/j.bmcl.2021.127783.
3. **2020**. Screening for small molecule inhibitors of BMP-induced osteoblastic differentiation from Indonesian marine invertebrates. *Marine Drugs* **8** (12): 606. doi:10.3390/md18120606.

4. **2020**. Data on percentage coral reef cover in small islands Bunaken National Park. *Data in Brief* **31** (105713). doi: 10.1016/j.dib.2020.105713.
5. **2020**. Antimicrobial activities of *Rhopalaea*-associated fungus *Aspergillus flavus* strain MFABU9. *Pakistan Journal of Biological Science* **23** (7): 911-916. doi:10.3923/pjbs.2020.911.916.
6. **2020**. Production of an α -pyrone metabolite and microbial transformation of isoflavones by an Indonesian *Streptomyces* sp. *Journal of Asian Natural Products Research* **22** (8): 754-761. doi: 10.1080/10286020.2019.1635588.
7. **2019**. Inhibition of interleukin-8 production in interleukin-1-stimulated human monocytic THP-1 cells *N,N*-didesmethylgrossularine-1 obtained from an ascidian *Polycarpa aurata* collected in North Sulawesi. *IOP Conference Series: Materials Science and Engineering* **567** (1): 1-8. doi: 10.1088/1757-899X/567/1/012021.
8. **2019**. The potential of marine ascidians as sources of natural antioxidant and antibacterial agent from Manado, North Sulawesi. *AACL Bioflux* **12** (1): 373-377.
9. **2018**. Absolute structures of wedelolide derivatives and structure-activity relationships of protein tyrosine phosphatase 1B inhibitory ent-kaurene diterpenes from aerial parts of *Wedelia* spp. collected in Indonesia and Japan. *Chemistry and Pharmaceutical Bulletin* **66** (6): 682-687. doi : 10.1248/cpb.c18-00117.
10. **2018**. Antioxidant and photoprotective activity of brown seaweed from North Sulawesi coast. *International Journal of ChemTech Research* **11** (06): 121-133. doi: 10.20902/IJCTR.2018.110617.
11. **2018**. Cladosporamide A, a new protein tyrosine phosphatase 1B inhibitor, produced by an Indonesian marine sponge-derived *Cladosporium* sp. *Journal of Natural Medicines* **72** (3): 779-783. doi: 10.1007/s11418-018-1193-y.
12. **2018**. Callyspongiamides A and B, sterol *O*-acyltransferase inhibitors, from the Indonesian marine sponge *Callyspongia* sp. *Bioorganic & Medicinal Chemistry Letters* **28** (10): 1911-1914. doi: 10.1016/j.bmcl.2018.03.077.
13. **2018**. Bioactivity of extracts from ascidians collected in North Sulawesi as seeds of marine-derived drugs. *AACL Bioflux* **11** (2): 516-524.
14. **2018**. Protein tyrosine phosphatase 1B inhibitory polybromobiphenyl ethers and monocyclofarnesol-type sesquiterpenes from the Indonesian marine sponge *Lamellodysidea* cf. *herbacea*. *Phytochemistry Letters* **24**, 10-14. doi: 10.1016/j.phytol.2017.11.016.
15. **2017**. Oleanane triterpenes with protein tyrosine phosphatase 1B inhibitory activity from aerial parts of *Lantana camara* collected in Indonesia and Japan. *Phytochemistry* **144**, 106-112. doi: 10.1016/j.phytochem.2017.08.020.
16. **2017**. A new biphenyl ether derivative produced by Indonesian ascidian-derived *Penicillium albobiverticillium*. *Journal of Natural Medicines* **71** (4): 776-779. doi: 10.1007/s11418-017-1094-5.
17. **2017**. Anti-mycobacterial alkaloids, cyclic 3-alkyl pyridinium dimers, from the Indonesian marine sponge *Haliclona* sp. *Bioorganic & Medicinal Chemistry Letters* **27** (15): 3503-3506. doi: 10.1016/j.bmcl.2017.05.067.
18. **2017**. An anti-mycobacterial bisfunctionalized sphingolipid and new bromopyrrol alkaloid from the Indonesian marine sponge *Agelas* sp. *Journal of Natural Medicines* **71** (3): 531-536. doi: 10.1007/s11418-017-1085-6.
19. **2017**. A 2,4'-linked tetrahydroxyxanthone dimer with protein tyrosine phosphatase 1B inhibitory activity from the Okinawan freshwater *Aspergillus* sp. *Journal of Antibiotics* **70** (9): 967-969. doi: 10.1038/ja.2017.72.
20. **2017**. Eudesmanolide Sesquiterpenes and ent-kaurene diterpenes with protein tyrosine phosphatase 1B inhibitory activity from aerial parts of Indonesian *Wedelia prostata*. *Phytochemistry Letters* **20**, 191-195. doi: 10.1016/j.phytol.2017.04.018.
Corrigendum in: *Phytochemistry Letters* **24**, 131. doi: 10.1016/j.phytol.2018.02.001
21. **2017**. Furanoterpenes, new types of protein tyrosine phosphatase 1B inhibitors, from two Indonesian marine sponges, *Ircinia* and *Spongia* spp. *Bioorganic & Medicinal Chemistry Letters* **27** (5): 1159-1161. doi: 10.1016/j.bmcl.2017.01.071.
22. **2017**. A tetramic acid derivative with protein tyrosine phosphatase 1B inhibitory activity and a new nortriterpene glycoside from the Indonesian marine sponge *Petrosia* sp. *Bioorganic & Medicinal Chemistry Letters* **27** (4): 999-1002. doi: 10.1016/j.bmcl.2016.12.077.

23. **2017**. Lissoclibadin 1, a polysulfur aromatic alkaloid from the Indonesian ascidian *Lissoclinum* cf. *badium*, induces caspase-dependent apoptosis in human colon cancer cells and suppresses tumor growth in nude mice. *Journal of Natural Products* **80** (2): 499-502. doi: 10.1021/acs.jnatprod.6b01051.
24. **2017**. Biphenyl ether derivatives with protein tyrosine phosphatase 1B inhibitory activity from the freshwater fungus *Phoma* sp. *Journal of Antibiotics* **70** (3): 331-333. doi: 10.1038/ja.2016.147.
25. **2015**. Verruculide and preverruculide, two new protein tyrosine phosphatase 1B inhibitors from Indonesian ascidian-derived *Penicillium verruculosum*. *Bioorganic & Medicinal Chemistry Letters* **25** (16): 3087-3090. doi: 10.1016/j.bmcl.2015.06.026.
26. **2015**. Absolute structures and bioactivities of eurypongins and eurydiene obtained from the marine sponge *Euryspongia* sp. collected at Iriomote Island. *Bioorganic & Medicinal Chemistry* **23** (4): 797-802. doi: 10.1016/j.bmc.2014.12.049.
27. **2013**. A polybromodiphenyl ether from an Indonesian marine sponge *Lamellodysidea herbacea* and its chemical derivatives inhibit protein tyrosine phosphatase 1B, an important target for diabetes treatment. *Journal of Natural Medicines* **67** (4): 730-735. doi: 10.1007/s11418-012-0735-y.
28. **2013**. Eurypongins A–C, three new unique sesquiterpenes from a marine sponge *Euryspongia* sp. *Bioorganic & Medicinal Chemistry Letters* **23** (7): 2151-2154. doi: 10.1016/j.bmcl.2013.01.102.
29. **2013**. Bioactive Secondary Metabolites from Tropical and Sub-Tropical Marine Invertebrates. Dissertation. Tohoku Pharmaceutical University. 86 p. Sendai Japan.

National

30. **2021**. Profile asam amino kecap ikan Tongkol (*Euthynnus affinis*) yang difermentasi dengan penambahan nenas. *Media Teknologi Hasil Perikanan*, 2021. **Accepted**. <https://ejournal.unsrat.ac.id/index.php/jmthp>
31. **2021**. Pengaruh fase bulan terhadap hasil tangkap pancing Cumi-cumi menggunakan lampu LED berkedip. *Samakia: Jurnal Ilmu Perikanan* **12** (2): Oktober 2021. **Accepted**. <https://journal.ibrahimy.ac.id/index.php/JSAPI/home>
32. Screening antibacterial activity ODS fractions of marine sponges against bacteria tuberculosis *Mycobacterium smegmatis*. *Journal Aquatic Science and Management* **9** (1): 26-31. doi: 10.35800/jasm.9.1.2021.32692 .
33. **2021**. Potensi anti bakteri jamur *Aspergillus nomius* yang disolasi dari alga hijau *Bornetella* sp. *Jurnal Ilmiah Platax*, **9** (1): 49-54. doi: 10.35800/jip.9.1.2021.33781
34. **2021**. The relationship between El Niño Southern Oscillation (ENSO) and oceanographic parameters in North Sulawesi waters. *Journal Aquatic Science and Management* **9** (1): 17-25. doi: 10.35800/jasm.9.1.2021.32494.
35. **2021**. Isolasi jamur simbiosis ascidia *Schizophyllum commune* yang memiliki aktivitas antibakteri. *Jurnal Pesisir dan Laut Tropis* **9** (1): 22-29. doi:10.35800/jplt.9.1.2021.33569
36. **2021**. Management of scad fisheries (*Decapterus* spp.) in Sulawesi Sea Waters, North Sulawesi Province, using EAFM. *Journal Aquatic Science and Management* **9** (1): 7-16. doi: 10.35800/jasm.9.1.2021.32468
37. **2021**. Accumulation of heavy metals (As, Cd, Pb, Hg) on brown algae, *Padina australis*, cultivated in Kima Bajo Waters, North Minahasa Regency. *Journal Aquatic Science and Management* **9** (1): 1-6. doi: 10.35800/jasm.9.1.2021.32470
38. **2021**. Karakterisasi bakteri simbiosis *Thrudilla lineolata* dan *Phyllidiella pustulosa* serta pengujian aktivitas antibakteri. *Jurnal Pesisir dan Laut Tropis* **8** (3): 27-37. doi: 10.35800/jplt.8.3.2020.32242.
39. **2020**. Struktur komunitas zooplankton di perairan Kampung Ambong Likupang Minahasa Utara. *Jurnal Ilmiah Platax* **8** (2): 274-283. doi:10.35800/jip.8.2.2020.31629.
40. **2020**. Analisis fenomena upwelling berbasis citra satelit pada Wilayah Pengelolaan Perikanan (WPP) 716. *Jurnal Ilmiah Platax* **8** (2): 242-250. doi:10.35800/jip.8.2.2020.31213.
41. **2020**. DNA isolation and amplification of the RBCL (ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit) gene of *Caulerpa* sp., *Gracilaria* sp., and *Sargassum* sp. *Jurnal Ilmiah Platax* **8** (2): 214-220. doi: 10.35800/jip.8.2.2020.30003.

42. **2020.** Efek suhu dan waktu simpan terhadap kualitas bagian tengah yellowfin tuna segar (*Thunnus albacares*). *Media Teknologi Hasil Perikanan* **8** (3): 100-106. doi:10.35800/mthp.8.3.2020.29537.
43. **2020.** Analysis of bacteria community in the plastic waste. *Jurnal Ilmiah Platax* **8** (2): 188-195. doi: 10.35800/jip.8.2.2020.29877.
44. **2020.** Banggai Cardinalfish (*Pterapogon kauderni*) potential as bioaccumulator of tributyltin contamination in the water of Bitung. *Jurnal Ilmiah Platax* **8** (2): 178-187. doi. 10.35800/jip.8.2.2020.29713.
45. **2020.** Diversity of crustacean isopod in Bangka Island of North Sulawesi. *Jurnal Ilmiah Platax*, **8** (2): 167-177. doi: 10.35800/jip.8.2.2020.29688.
46. **2020.** Development strategy of hygienic fish marketing in samudra fishing port of Bitung. *Jurnal Ilmiah Platax* **8** (2): 159-166. doi: 10.35800/jip.8.2.2020.29694.
47. **2020.** Potensi penyerapan karbon hutan mangrove di desa Serawet, dusun Kuala Batu Kecamatan Likupang Timur Kabupaten Minahasa Utara. *Jurnal Ilmiah Platax* **8** (2): 152-158. doi: 10.35800/jip.8.2.2020.28916.
48. **2020.** Isolasi bakteri yang bersimbion dengan ascidian *Herdmania momus* yang memiliki aktivitas antibakteri. *Jurnal Pesisir dan Laut Tropis* **8** (2): 21-26. doi: 10.35800/jplt.8.2.2020.28766.
49. **2020.** Marine fungi *Aspergillus flavus* from Ascidian *Eudistoma* sp. collected in Bunaken Island. *Jurnal Pesisir dan Laut Tropis* **8** (2): 11-20. doi: 10.35800/jplt.8.2.2020.28765.
50. **2020.** Struktur komunitas ascidia perairan Mike's Point Bunaken Kota Manado Provinsi Sulawesi Utara. *Jurnal Ilmiah Platax* **8** (1): 61-70. doi: 10.35800/jip.8.1.2020.27827.
51. **2020.** Analisis sampah laut dan kelimpahan gastropoda di ekosistem mangrove Tongkaina, Sulawesi Utara. *Jurnal Ilmiah Platax* **8** (1): 16-23. doi: 10.35800/jip.8.1.2020.27597.
52. **2019.** Antibacterial screening activity of several sponges against *Staphylococcus aureus*, *Escherichia coli*, *S. saprophyticus*, dan *Pseudomonas aeruginosa*. *Jurnal Ilmiah Platax* **7** (2): 455-461. doi: 10.35800/jip.7.2.2019.26026.
53. **2019.** Aktivitas antibakteri dan anti-UV beberapa Ascidian dari perairan Pangalisang Bunaken. *Jurnal Pesisir dan Laut Tropis* **7** (3): 271-285 doi: 10.35800/jplt.7.3.2019.26019.
54. **2019.** Uji antibakteri ekstrak dan fraksi spons terhadap *Escherichia coli* dan *Staphylococcus aureus* serta potensinya terhadap aktivitas anti-UV. *Jurnal Pesisir dan Laut Tropis* **7** (3): 196-207. doi: 10.35800/jplt.7.3.2019.24459.
55. **2019.** Predation intensity in mangrove ecosystem in Marine Protected Area, North Sulawesi. *Jurnal Ilmiah Platax* **7** (2): 413-420. doi: 10.35800/jip.7.2.2019.24415.
56. **2019.** Antibacterial activity ODS fractions of marine sponge *Auletta* sp. against *Mycobacterium smegmatis*. *Jurnal Ilmiah Platax* **7** (1): 329-334. doi: 10.35800/jip.7.1.2019.23369.
57. **2019.** Struktur komunitas dan persentase tutupan mangrove di desa Gamtala Kecamatan Jailolo Kabupaten Halmahera Barat. *Jurnal Ilmiah Platax* **7** (1): 284-293. doi: 10.35800/jip.7.1.2019.23377.
58. **2019.** Pemanfaatan ekstrak kasar spons untuk meningkatkan pertumbuhan dan respon imun non spesifik ikan Nila (*Oreochromis niloticus*). *Jurnal Ilmiah Platax* **7** (1): 256-264. doi: 10.35800/jip.7.1.2019.23228.
59. **2019.** Kajian bakteri probiotik untuk meningkatkan kinerja pertumbuhan dan kelangsungan hidup ikan Mas (*Cyprinus carpio*). *Jurnal Ilmiah Platax* **7** (1): 243-255. doi: 10.35800/jip.7.1.2019.23216.
60. **2019.** Isolasi dan amplifikasi gen 16s rRNA isolat mikroba asosiatif pada alga merah *Kappaphycus alvarezii* dari perairan desa Belang, Kabupaten Minahasa Tenggara, Sulawesi Utara. *Jurnal Ilmiah Platax* **7** (1): 220-226. doi: 10.35800/jip.7.1.2019.22808.
61. **2019.** Biospropeksi antibakteri spons dari pantai pulau Bunaken. *Jurnal Pesisir dan Laut Tropis* **1** (1): 7-12. doi: 10.35800/jplt.7.1.2019.22813.
62. **2019.** Skrining antibakteri ekstrak beberapa species spons terhadap bakteri *Escherichia coli* dan *Bacillus megaterium*. *Jurnal Ilmiah Platax* **7** (1): 1-8. doi: 10.35800/jip.7.1.2019.21435.

63. **2018.** Isolasi DNA alga *Kappapichus*. *Jurnal Pesisir dan Laut Tropis* **1** (1): 107-112. doi: 10.35800/jplt.6.1.2018.20589.
64. **2018.** Potensi antibakteri karang lunak *Lobophytum* sp. dari perairan Pangalisang Pulau Bunaken terhadap bakteri *Pseudomonas aeruginosa* dan *Staphylococcus aureus*. *Jurnal Ilmiah Platax* **6** (2): 89-97. doi: 10.35800/jip.7.1.2019.20638.
65. **2018.** Uji aktivitas antibakteri fraksi *n*-heksana, metanol dan air dari ascidian *Lissoclinum* sp. *Jurnal Pesisir dan Laut Tropis* **1** (1): 69-80. doi: 10.35800/jplt.6.1.2018.20566.
66. **2018.** Penapisan (skrining) aktivitas antibakteri beberapa ekstrak spons dari Teluk Manado. *Jurnal Pesisir dan Laut Tropis* **1** (1): 52-60. doi: 10.35800/jplt.6.1.2018.20198.
67. **2018.** Uji aktivitas antibakteri spons *Plakortis* sp. yang dikoleksi dari perairan Bunaken. *Jurnal Pesisir dan Laut Tropis* **1** (1): 44-51. doi: 10.35800/jplt.6.1.2018.20192.
68. Inhibitory activities of ascidian *Herdmania momus* on the colony formation of Chinese Hamster V79 cells, collected in Manado North Sulawesi, Indonesia. *Jurnal of Asean Studies and Maritime Issues* **3** (5): 13-19. ISSN: 2477-6319.
69. **2017.** Aktivitas spons laut *Lamellodysidea herbacea* dari perairan Malalayang. *Jurnal LPPM Bidang Sains dan Teknologi* **4** (1): 1-7. ISSN: 2407-6074.
70. **2017.** Bioaktivitas antibakteri fraksi ODS spons *Agelas* sp. dari perairan Pangalisang Pulau Bunaken. *Jurnal Pesisir dan Laut Tropis* **2** (1): 22-30. doi: 10.35800/jplt.5.3.2017.16936.
71. **2017.** Antibacterial substances of sponges, *Agelas tubulata* and *Phyllospongia* sp., from Manado Bay, against the growth of several bacterial strains. *Journal Aquatic Science and Management* **5** (1):23-28. April 2017. doi: 10.35800/jasm.5.1.2017.24253.
72. **N2016.** Uji aktivitas antibakteri dari spons *Dictyonella funicularis* dan *Phyllospongia lamellosa* yang diambil pada perairan Bunaken. *Jurnal Pesisir dan Laut Tropis* **2** (1): 10-16. doi: 10.35800/jplt.4.2.2016.13035.
73. **2014.** Cytotoxic activity of ascidian *Eudistoma* sp. from Mantehage island Manado. *Jurnal LPPM Bidang Sains dan Teknologi* **1** (1):1-6. ISSN: 2407-6074.
74. **2014.** Efek toksisitas polutan tributiltin terhadap sel alga laut, *Kappaphycus alvarezii*. *Jurnal LPPM Bidang Sains dan Teknologi* **1** (1): 37-46. ISSN: 2407-6074.
75. **2014.** Karakterisasi dan bioaktif antibakteri senyawa spons *Haliclona* sp. dari teluk Manado. *Jurnal LPPM Bidang Sains dan Teknologi* **1** (1): 71-85. ISSN: 2407-6074.
76. **2014.** Sitotoksitas ekstrak kasar ascidian dari pulau Bunaken. *Jurnal LPPM Bidang Sains dan Teknologi* **1** (1): 86-89. ISSN: 2407-6074.
77. **2009.** The life cycle and sensitivity of the local copepod, *Apocyclops* sp. to tributyltin exposure. *Jurnal Biota* **14** (2): 125-129. ISSN: 0853-8670.

HKI

- 2021. Metode Sampling Struktur Komunitas Ascidia di Perairan Pulau Bunaken. Paten Sederhana
- 2021. Bioactive Secondary Metabolites from Tropical and Sub-tropical Marine Invertebrates. Sertifikat HKI EC00202114397
- 2021. Kultur jamur *Trichoderma asperellum* Strain AFBN4 yang diisolasi dari Ascidia *Eudistoma* sp. Hak Cipta Karya Ilmiah. Paten Sederhana Terdaftar. Nomor registrasi Inventor No. S00202101591
- 2017. Senyawa pada jamur endofitik yang bersimbion dengan Ascidia dari Perairan Manado, dan memiliki aktivitas sebagai penghambat pertumbuhan enzim PTP1B penyebab penyakit *Diabetes mellitus* Type 2 (Obesitas). Nomor registrasi Inventor No. P00201704908)

Community Services

- 2021. Penyuluhan Potensi Avertebrata Laut Sebagai Sumber Obat Bahan Alam Laut Di Kelompok WKI GMIM Patmos Bunaken Kecamatan Bunaken Kepulauan Kota Manado.

- 2020. Penyuluhan Pengurangan Pemakaian Plastik pada Kelompok PKK Kelurahan Paal 4 Kecamatan Tikala Kota Manado.
- 2019. Mitigasi Bencana Banjir Di Kelurahan Titiwungen Selatan Kecamatan Sario Kota Manado dan Penyuluhan Pengurangan Pemakaian Plastik.
- 2016. IbM Kelompok Tani Nelayan Di Desa Rumbia Kecamatan Langowan Selatan Kabupaten Minahasa Sulawesi Utara.
- 2015. IbM Penyuluhan Banding bandang di Kelurahan Sario Manado.
- 2015. IbM Kelompok Tani Nelayan di Desa Tareran.

Research Activities

- 2021. Komunitas Jamur dari Ascidia di Perairan Pulau Bunaken. (Mandiri)
- 2021. Struktur Komunitas dan Bioprospeksi Ascidia di Perairan Pulau Bunaken. (Skema RTUU UNSRAT)
- 2020. Bioprospeksi jamur *Trichoderma asperellum* Strain AFBN4 yang diisolasi dari Ascidia *Eudistoma* sp. (Mandiri)
- 2020. Pengembangan Media Kultur Jamur Endofitik Organisme Laut dan Identifikasi Molekuler DNA. (Skema RTUU UNSRAT)
- 2019-2020. Metabolit Sekunder Ascidian dan Jamur Endofitiknya Sebagai Potensi Bahan Obat. (Skema WCR DRPM)
- 2019. Penapisan Aktivitas Proteolitik dari Bakteri yang Berasosiasi dengan Siput Laut, Nudibranchia dan Identifikasi Molekuler. (Skema RDUU UNSRAT)
- 2019. Analisis Senyawa Bioaktif Antibakteri dari Jamur Endofit yang Bersimbion dengan Ascidian di sekitar Perairan Bunaken Manado. (Skema Penelitian Dasar DRPM)
- 2019. Isolasi Jamur dan Bakteri dari Organisme Laut yang Memiliki Aktivitas Antioksidan dan Anti Bakteri dari Perairan Malalayang, Manado. (Skema RDUU UNSRAT)
- 2019. Metabolit Sekunder Nudibranch Sebagai Potensi Bahan Obat. (Skema RDUU UNSRAT)
- 2019. Pemantauan ekologi di kawasan perairan Weda, Kabupaten Halmahera Tengah Provinsi Maluku Utara. (Kerjasama dengan Megah Surya Pertiwi)
- 2019. Pemantauan ekologi di kawasan perairan Kawasi, Danau Karo, Danau Loji dan Sungai Akelamo, Pulau Obi Kabupaten Halmahera Selatan Maluku Utara. (Kerjasama dengan Megah Surya Pertiwi)
- 2019. Pemantauan ekologi di kawasan perairan Morowali Kabupaten Sulawesi Barat. (Kerjasama dengan Megah Surya Pertiwi)
- 2018. Aktivitas Antibakteri Beberapa Jenis Spons dari Perairan Pantai Malalayang Manado Terhadap Pertumbuhan Strain Bakteri. (Skema RDUU UNSRAT)
- 2018. Uji Efektivitas Fraksi ODS Spons Sebagai Bahan Imunostimulan Dalam Meningkatkan Resistensi Ikan Nila (*Oreochromis niloticus*) Terhadap Penyakit Bakteri. (Skema RTUU UNSRAT)
- 2018. The Potential of Sponges as Antibacterial Agent. (Collaborative Research - Institute for Pharmaceutical Biology, Bonn Univ.)
- 2018. Aktivitas antibakteri dan antioksidan beberapa jenis spons dan ascidian dari perairan Bunaken Manado. (Collaborative Research UNPAD)
- 2016. Efek Ekstrak Ascidian Terhadap Pertumbuhan Sel Kanker Usus (HCT-15) dan Leukemia (Sel Jurkat) yang Dikoleksi dari Perairan Sekitar Taman Laut Nasional Bunaken Manado. (Skema Penelitian Dasar DRPM)
- 2016. Isolation of marine sponges collected from Manado. (Collaborative Research Tohoku Pharmaceutical University Sendai)
- 2015. Senyawa bioaktif yang diekstrak dari sponge laut yang dikoleksi dari perairan Sulawesi Utara sebagai kandidat bahan obat Diabetes Tipe 2. (Skema RUU UNSRAT)

- 2015. Antimicrobial marine sponges against *Mycobacterium smegmatis*, collected from Manado North Sulawesi, Indonesia. (Collaborative Research Pharmaceutical University Sendai)
- 2015. Bioactive secondary metabolites from fresh water derived fungi collected in Hayakake Lake, Aomori, Japan (Collaborative Research Tohoku Pharmaceutical University Sendai)
- 2015. Bioactive secondary metabolites from marine derived fungi of ascidian collected in Manado. (Collaborative Research Tohoku Pharmaceutical University Sendai)
- 2009-2013. Bioactive secondary metabolites from tropical and sub-tropical marine invertebrates (Research Dissertation)
- 2009. Bioactive secondary metabolites from tropical marine invertebrates (Collaborative Research Tohoku Pharmaceutical University Sendai)
- 2009. Bioekologi *Prochloron* sp. yang bersimbiosis dengan ascidiacea di Teluk Manado (Skema Dikti Stratnas)