




PERSONAL INFORMATION



Prof. Dr. Nanik Siti Aminah, M.Si.

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Sex Female | Nationality Indonesia

FUNCTIONAL POSITION

2022 Professor on Natural Product Chemistry
Dept. of Chemistry, Fac. of Science and Technology, Universitas Airlangga,
Komplek Kampus C UNAIR, Jl. Ir. Soekarno, Surabaya-East Java, Indonesia

EDUCATION AND TRAINING

1986-1990 Undergraduate Program on Chemistry, Department of Chemistry, Faculty of Mathematics and Natural Science, Universitas Airlangga, Surabaya Indonesia.

1995-1997 Master Degree of Chemistry (Organic Chemistry), Dept. of Chemistry, Faculty of Mathematics and Natural Science, Bandung Institute of Technology (ITB), Bandung, Indonesia (**Honors**)

2000-2003 Ph. D. of Chemistry (Natural Product Chemistry), Dept. of Chemistry, Fac. of Mathematics and Natural Science, Bandung Institute of Technology (ITB), Bandung, Indonesia (**Honors**)

2009-2010 Postdoc Program, in Faculty of Pharmacy Meijo University, Nagoya, Japan

2014 Research Felllow in Faculty of Pharmacy, Meijo University, Nagoya, Japan (October 1 – 16, 2014)

2016 Research Felllow in Faculty of Pharmacy, Meijo University, Nagoya, Japan (July 27 – August 22, 2016)

LECTURERS ON

- 2003 - now
1. Basic chemistry (undergraduate program)
 2. Phytochemistry method (undergraduate program)
 3. Natural Product Chemistry (undergraduate program)
 4. Elucidation on molecular structure of organic compounds (undergraduate program)
 5. Practical Elucidation on molecular structure of organic compounds (undergraduate program)
 6. Organic Chemistry I & II (undergraduate program)
 7. Practical Organic Chemistry I & II (undergraduate program)
 8. General organic Chemistry (undergraduate program)
 9. Bioassay (Master degree Program)
 10. Phytochemistry of Indonesian Nature (“AMERTA CLASS” For International Students)

GUEST LECTURE

6-7/7, 2017	Guest lecture: Phenolic Compounds From Indonesian Plants	Yadanabon University & Taunggyi University, Myanmar
15/2, 2018	Challenges and Opportunities on Natural Product Chemistry	Dept. Of Chemistry University National Timor Lorosae, Timor Leste
18/9, 2018	One-Day Guest Lecture on The Topic of "Phenolic Compounds from Indonesia Plant and their Bioactivity"	Islamic International University, Pakistan
27/01 – 3/02, 2019	Public Lecture "Strategy of Isolation Bioactive Phenolic Compounds" GLOBAL OUTREACH PROGRAMME 2.0	UiTM Negeri 9, Malaysia
29 -1-2021	International Webinar on Natural Product Chemistry on the Topic of “Coumarin compounds from <i>Clausena excavata</i> : Its Isolation Method, Structure Elucidation, Derivatization, and Bioactivity Test”	Department of Chemistry, Dhaka University, Bangladesh

SUPERVISOR OF Ph.D. STUDENTS

A. Supervisor

- | | | |
|-----------|---------------------|-------------------------------------|
| 2017-2019 | 1. Khun Nay Win Tun | Pathein University, Myanmar |
| | 2. Tin Myo Thant | Mandalay Degree College,
Myanmar |



3. Andika Pramudya Wardana Universitas Airlangga

4. M. Ikhlas Abdjan

B. Co-Supervisor

2008-2012

1. Hermien Noorhayati

Universitas WR Supratman,
Surabaya, Indonesia

2011-2016

2. Idriani

Universitas Tadulako, Palu,
Sulteng, Indonesia

2013-2016

3. Rina Priastini Susilowati

Krida Wacana Christian University,
Jakarta, Indonesia

2018-now

4. Ei Ei Aung

Yadanabon University, Myanmar

POST DOCT STUDENTS

2020

1. Dr. Olabisi Flora Davies-Bolorunduro

Centre for Tuberculosis Research
(CTBR)

Microbiology Department
Nigerian Institute of Medical
Research
Nigeria

2. Dr. Khun Nay Win Tun

Patheingyi University, Myanmar

3. Dr. Indriani

Universitas Tadulako, Palu,
Sulteng, Indonesia

**INTERNATIONAL
PARTNER ON
RESEARCH**

1. Dr. Yoshiaki Takaya

Faculty of Pharmacy, Meijo University, Nagoya
Japan

2. Dr. Hnin Thanda Aung

Dept. of Chemistry, Mandalay University, Myanmar

3. Prof. M. Iqbal Chaudhary

Director of International Centre of Chemistry and
Biological Science, Karachi University, Karachi,
Pakistan

4. Dr. Che Azura Hanim Che Abdullah

Department of Physics, Faculty of Science,
University Putra Malaysia, 43400 UPM Serdang,
Selangor, Malaysia

ORGANISATIONAL / MANAGERIAL SKILLS

LEADERSHIP EXPERIENCE

- 2003** Coordinator of the S-1 Chemistry Study Program national accreditation team, Department of Chemistry, Faculty of Science and Technology, Universitas Airlangga
- 2009** Coordinator of PHKI Program, Department of Chemistry, Faculty of Science and Technology, Universitas Airlangga
- 2008 – 2010** The Secretary of Faculty Advisory Board (BPF) Faculty of Science and Technology, Universitas Airlangga
- 2010 - 2015** Vice Dean on Academic and Students affair Faculty of Science and Technology, Universitas Airlangga, Surabaya, Indonesia
- 2015 - 2020** Vice Dean on Research and Partnership Faculty of Science and Technology, Universitas Airlangga, Surabaya, Indonesia

ADDITIONAL INFORMATION

A. PUBLICATION LAST FIVE YEARS

- 2022**
1. Laili, E. R., **Aminah, N. S.***, Kristanti, A. N., Wardana, A. P., Rafi, M., Rohman, A., Insanu, M., and Tun, K. N. W., Comparative Study of *Sida Rhombifolia* from Two Different Locations, 2022, *Rasayan Journal of Chemistry*, 15(1), 642-650
 2. Kristanti, A.N., Aung, E.E., **Aminah, N.S.**, Aung, H.T., Ramadhan, R. Bioactive triterpenoids from Indonesian medicinal plant *Syzygium aqueum*, *Open Chemistry*, 2022, 20(1), pp. 204–211
 3. Kristanti, A.N., **Aminah, N.S.**, Zahroh, F.F., Wardana, A.P., Takaya, Y., Phytochemistry of *Syzygium polycephalum*, *Tropical Journal of Natural Product Research*, 2022, 6(5), pp. 728–731,
 4. Musa, A., **Aminah***, **N.S.**, Davies-Bolorunduro, O.F., Kristanti, A.N., Suhaili, Islami, A. I., Wai, T.S., Naing, T.T.S.P., Antimicrobial activities of the extracts and secondary metabolites from *Clausena* genus – A Review, *Open Chemistry*, 2022; 20: 627–650, <https://doi.org/10.1515/chem-2022-0176>
 5. Wardana, A.P., Abdjan, M.I., **Aminah, N.S.***, Fahmi, M.Z., Siswanto, I., Kristanti, A.N., Saputra, M.A., Takaya, Y., 3,4,3'-Tri-O-methylelagic acid as an anticancer agent: in vitro and in silico studies, *RSC Advances* this link is disabled, 2022, 12(46), pp. 29884–29891, DOI: [10.1039/D2RA05246F](https://doi.org/10.1039/D2RA05246F)
 6. Gerald, A.*, Wardana, A.P., **Aminah, N.S.**, Kristanti, N.K., Sadila, A.Y., Wijaya, N.H., Wijaya, M.R.A., Diningrum, N.I.D., Hajar, V.R., Manuhara, Y.S.W. *, Tropical Medicinal Plant Extracts from Indonesia as Antifungal

- Agents against *Candida Albicans*, *Frontiers in Bioscience - Landmark*, 2022, 27(9), 274, DOI: [10.31083/j.fbl2709274](https://doi.org/10.31083/j.fbl2709274)
7. Kristanti, A.N., **Aminah, N.S.**, Siswanto, I., Manuhara, Y.S.W., Abdjan, M.I., Wardana, A.P., Aung, E.E., Takaya, Y., Anticancer potential of β -sitosterol and oleanolic acid as through inhibition of human estrogenic 17 β -hydroxysteroid dehydrogenase type-1 based on an *in-silico* approach, *RSC Advances*, 2022, 12(31), pp. 20319–20329, <https://doi.org/10.1039/D2RA03092F>
 8. Manuhara, Y.S.W., Sugiharto, S., Kristanti, A.N., **Aminah, N.S.**, Wibowo, A.T. Wardana, A.P., Putro, Y.K., Sugiarto, D., Antioxidant Activities, Total Phenol, Flavonoid, And Mineral Content In The Rhizome Of Various Indonesian Herbal Plants, *Rasayan Journal of Chemistry*, 15(4), pp 2724-2730
- 2021**
1. Indriani P. Satrimafitrah, **Nanik Siti Aminah***, Ni Nyoman Tri Puspaningsih, Yoshiaki Takaya, Iffa H. Hasna, 2021, Vladinol f, neolignan compound from the stem bark of *Dryobalanops oblongifolia* (Dipterocarpaceae) and antiplasmodial activity, *Rasayan Journal of Chemistry*, 14(1):161–165, <https://doi.org/10.31788/RJC.2021.1416017>
 2. Ei Ei Aung, Alfinda Novi Kristanti*, **Nanik Siti Aminah**, Rico Ramadhan, Hnin Thanda Aung, 2021, Anticancer activity of isolated compounds from *Syzygium aqueum* stem bark, *Rasayan Journal of Chemistry*, 14(1):312, <https://doi.org/10.31788/RJC.2021.1416106>
 3. **Nanik Siti Aminah***, Kun Nay Win Tun, Alfinda Novi Kristanti, Hnin Thanda Aung, Yoshiaki Takaya, M. Iqbal Choudhary, 2021, Chemical constituents and their biological activities from Taunggyi (Shan state) medicinal plants, *Heliyon*, 7(2), <https://doi.org/10.1016/j.heliyon.2021.e06173>
 4. **Nanik Siti Aminah***, Erlinda Rhoematul Laili, M. Rafi, A. Rochman, M. Insanu, K.N.W. Tun, 2021, Secondary metabolite compounds from *Sida* genus and their bioactivity, *Heliyon*, 7(4), <https://doi.org/10.1016/j.heliyon.2021.e06682>
 5. Q. Labibah, K. N. W. Tun, **Nanik Siti Aminah***, A. N. Kristanti, R. Ramadhan, Y. Takaya, C. A. C. Abdullah, M. J. Masarudin, 2021, Cytotoxic constituent in the fruit peel of *Lansium domesticum*, *Rasayan Journal of Chemistry*, 14(2):1336-1340, <http://dx.doi.org/10.31788/RJC.2021.1426044>
 6. M.Z. Kwee, Y., Kristanti, A.N.*, Simon, K., **Nanik Siti Aminah**, Fahmi, 2021, Carbon nanodots derived from natural products, *South African Journal of Chemistry*, 75(1):40-63, <http://doi.org/10.17159/0379-4350/2021/v75a6>
 7. Muhammad Ikhlās Abdjan, **Nanik Siti Aminah***, Imam Siswanto, Alfinda Novi Kristanti, Yoshiaki Takaya, Muhammad Iqbal Choudhary, 2021, Exploration of stilbenoid trimers as potential inhibitors of sirtuin1 enzyme using a molecular docking and molecular dynamics simulation approach, *RSC Advances*, 11(31): 19323-19332, <http://doi.org/10.1039/D1RA02233D>
 8. Olabisi Flora Davies-Bolorunduro, , Ajayi, Abraham, Adeleye, Isaac Adeyemi, Kristanti, Alfinda Novi and Aminah, **Nanik Siti Aminah***. "Bioprospecting for antituberculosis natural products – A review" *Open Chemistry*, vol. 19, no. 1, 2021, pp. 1074-1088. <https://doi.org/10.1515/chem-2021-0095>

9. Olabisi Flora Davies-Bolorunduro, O. Osulale, S. Saibu, I.A. Adeleye d, **N.S. Aminah***, Bioprospecting marine actinomycetes for antileishmanial drugs: current perspectives and future prospects, *Heliyon* 7 (2021) e07710, <https://doi.org/10.1016/j.heliyon.2021.e07710>
10. Nanik Siti Aminah*, Muhammad Ikhlas Abdjan, Andika Pramudya Wardana, Alfinda Novi Kristanti, Imam Siswanto, Khusna Arif Rakhman and Yoshiaki Takaya, The dolabellane diterpenes as potential inhibitors of the SARS-CoV-2 main protease: molecular insight of the inhibitory mechanism through computational studies, *RSC Adv.*, 2021, **11**, 39455-39466, DOI: [10.1039/D1RA07584E](https://doi.org/10.1039/D1RA07584E)
11. Asefin Nurul Ikhtiarini, Widiastuti Setyaningsih, Mohamad Rafi, Nanik Siti Aminah, Muhamad Insanu, Irnawati Irnawati, Abdul Rohman*, Optimization of ultrasound-assisted extraction and the antioxidant activities of Sidaguri (*Sida rhombifolia*), 2021, *Journal of Applied Pharmaceutical Science* Vol. 11(08), pp 070-076

- 2020**
1. New derivatives of a natural nordentatin, Tin Myo Thant, **Nanik Siti Aminah***, Alfinda Novi Kristanti, Rico Ramadhan, Hnin Thanda Aung, Yoshiaki Takaya, *Open Chemistry*, 2020; **18**: 890–897, <https://doi.org/10.1515/chem-2020-0149>
 2. Abdjan, M.I., **Nanik Siti Aminah**, Siswanto, I., Kristanti, A.N., Takaya, Y., 2020, In silico approach: Biological prediction of nordentatin derivatives as anticancer agent inhibitors in the cAMP pathway, *RSC Advances*, 10(70):42733–42743, <https://doi.org/10.1039/D0RA07838G>
 3. Sin War Naw, Nwet Darli Kyaw Zaw, **Nanik Siti Aminah**, Mochammad Amin Alamsjah, Alfinda Novi Kristanti, Aondohemba Samuel Nege, Hnin Thanda Aung, 2020, Bioactivities, heavy metal contents and toxicity effect of macroalgae from two sites in Madura, Indonesia, *Journal of the Saudi Society of Agricultural Sciences*, 19(8): 528-537, <https://doi.org/10.1016/j.jssas.2020.09.007>
 4. Siti Khaerunnisa*, **Nanik Siti Aminah**, Alfinda Novi Kristanti, Sutji Kuswarini, Citrawati Dyah Kencono Wungu, Soetjipto Soetjipto, Suhartati Suhartati, 2020, Isolation and identification of a flavonoid compound and *in vivo* lipid-lowering properties of *Imperata cylindrica*, *Biomedical Reports*, 13(5):38, <https://doi.org/10.3892/br.2020.1345>
 5. Antiplasmodial Activity of Stigmastane Steroids from *Dryobalanops oblongifolia* Stem Bark, Indriani, **Nanik Siti Aminah***, Ni Nyoman Tri Puspaningsih, *Open Chem.*, 2020; **18**: 259–264, <https://doi.org/10.1515/chem-2020-0027>
 6. Phytoconstituents of Genus *Micromelum* and Their Bioactivity—a Review, Tin Myo Thant, **Nanik Siti Aminah***, Alfinda Novi Kristanti, Rico Ramadhan, Hnin Thanda Aung, and Yoshiaki Takaya, *Natural Product Communications*, 2020, **15**(5): 1–15, DOI: 10.1177/1934578X20927124
 7. Cytotoxic Prenyl and Geranyl Coumarins from the Stem Bark of *Casimiroa Edulis*, Khun Nay Win Tun, **Nanik Siti Aminah***, Alfinda Novi Kristanti, Rico Ramadhan, and Yoshiaki Takaya, *Letters in Organic Chemistry*, 17(9):655-658, DOI: [10.2174/1570178617666200207103755](https://doi.org/10.2174/1570178617666200207103755)
 8. Synthesis of Some Chalcone Derivatives, In Vitro And in Silico Toxicity Evaluation, A. N. Kristanti*, H. Suwito, **N.S. Aminah**, K.U. Haq, H. D.

- Hardiyanti, H. Anggraeni, N. Faiza, R.S. Anto and S. Muharromah, *Rasayan J. Chem*, 2020, 13(1),654 – 662, <http://dx.doi.org/10.31788/RJC.2020.1315534>
9. β -Sistosterol and β -sitostenone from *Eucalyptus deglupta*, Khun Nay Win Tun, **Nanik Siti Aminah***, Alfinda Novi Kristanti, Haninda Iffatuz Zahrah, Indriani, Yoishiaki Takaya, and Hnin Thanda Aung, *J. Indian Chem. Soc.*, Vol. 97, May 2020, pp. 1-4
 10. Natural products isolated from *Casimiroa*, Tun, K.N.W., **Aminah, N.S***, Kristanti, A.N., Aung, H.T., Takaya, Y., *Open Chemistry* 2020; 18: 778–797, <https://doi.org/10.1515/chem-2020-0128>
 11. Various ester derivatives from esterification reaction of secondary metabolite compounds: a review, Mila Rosyda, **Nanik Siti Aminah***, Alfinda Novi Kristanti, *MOJ Ecology & Environmental Sciences*, Volume 5 Issue 3 - 2020
- 2019**
1. Carbazomarin: A New Potential of α -Glucosidase Inhibitor from *Clausena excavata* Roots, **Nanik S. Aminah***, Tin M. Thant, Alfinda N. Kristanti, Rico Ramadhan, Hnin T. Aung, and Yoshiaki Takaya, *Natural Product Communications*, 2020, 14(12): 1–5, DOI: 10.1177/1934578X19894076
 2. Antidiabetes and Antioxidant agents from *Clausena excavata* root as medicinal plant of Myanmar, T. M. Thant, **N. S. Aminah***, A. N. Kristanti, R. Ramadhan, H. T. Aung, Y. Takaya, *Open Chem.*, 2019, 17, 1339–1344
 3. A new pyrano coumarin from *Clausena excavata* roots displaying dual inhibition against α -glucosidase and free radical, Tin Myo Thant, **Nanik Siti Aminah**, Alfinda Novi Kristanti, Rico Ramadhan, Preecha Phuwapraisirisan & Yoshiaki Takaya, *Natural Product Research*, Received 08 Nov 2018, Accepted 20 Feb 2019, Published online: 25 Mar 2019, <https://doi.org/10.1080/14786419.2019.1586696>
 4. Application Of Flower Color Variations To *Impatiens Balsamina* L. As An. Environmentally Friendly Acid-Base Indicator, **Nanik Siti Aminah***, Andika Pramudya Wardana, Alfinda Novi Kristanti, Brilliana Via Safitri and Mafalda Rosa, *Rasayan Journal of Chemistry*, 2019, 12 (4), 2116 - 2123
 5. Coumarins from Myanmar edible fruit tree (*Casimiroa edulis*), Khun Nay Win Tun, **Nanik Siti Aminah***, Alfinda Novi Kristanti, Rico Ramadhan, Yoshiaki Takaya and HninThanda Aung, *J. Indian Chem.* 2019, 96, pp.1-4
 6. Isolation of cytotoxic sesquiterpenes from *Curcuma comosa* and characterization of their structures, Khun Nay Win Tuna, **Nanik Siti Aminah***, Alfinda Novi Kristanti, Rico Ramadhan, Yoshiaki Takaya, and Hnin Thanda Aung, *J. Indian Chem. Soc.*, 2019, 96(12), 1513-1517
- 2018**
1. Review: Secondary Metabolites of *Aquilaria*, a Thymelaeaceae Genus, Mini-Alfinda Novi Kristanti*, Mulyadi Tanjung and **Nanik Siti Aminah**, *Reviews in Organic Chemistry*, 2018, 15, 36-55, DOI:10.2174/1570193X14666170721143041
 2. Effect of Resveratrol Dimers and Tetramers Isolated from Vitaceous and Dipterocarpaceous Plants on Human SIRT1 Enzyme Activity, Kiyomi Hikita, Norikazu Seto, Yusuke Takahashi, Ayako Nishigaki, Yuya Suzuki, Tomiyasu

3. Murata, Arthorn Loisruangsin, **Nanik Siti Aminah**, Yoshiaki Takaya, Masatake Niwa, and Norio Kaned, *Natural Product Communication*, 2018, 13(11), 1531 – 1534
4. Batatasin III a derivative of dihydrostilbene compound from Yam Peel of Uwi Tuban and Its Antioxidant Activity, W Agustina, A N Kristanti, Y Takaya, E Fitriana, and **N S Aminah***, *Journal of Physics: Conf. Series*, **1116** (2018) 042003, IOP Publishing, doi:10.1088/1742-6596/1116/4/042003

B. BOOK CHAPTER

2020

Sesquiterpenes from *Curcuma comosa*, Myanmar Medicinal plant, Khun Nay win Tun, **Nanik Siti Aminah**, Alfinda Novi Kristanti, HninThanda Aung, Yoshiaki Takaya, 2000, Intech Open, London,
link: <https://www.intechopen.com/chapters/73578>

2022

Cytotoxic Activity of Secondary Metabolite Compounds from Myanmar Medicinal Plants, Khun Nay Win Tun, **Nanik Siti Aminah**, Alfinda Novi Kristanti, Hnin Thanda Aung and Yoshiaki Takaya, 2000, Intech Open, London,
DOI: <http://dx.doi.org/10.5772/intechopen.105153>

C. KEY NOTE SPEAKER

- | | |
|--|--|
| 1. Produksi katecin murni dari gambir (<i>uncaria gambir</i>) Myanmar sebagai upaya penyediaan bahan baku obat penyakit tropis | Seminar Nasional dengan Tema : Pemanfaatan Potensi Bahan Alam Indonesia Sebagai Solusi Untuk Penyakit Tropis, Universitas Tadulako, Palu Sulawesi Tengah, Indonesia, 21 Oktober 2017 |
| 2. Profile of phenolic compounds from some of the Myanmar's Medicinal plants and their bioactivity | ICOWOBAS 14 th – 15 th July 2019, UTM Johor Bahru, Malaysia |
| 3. Executive talk: COVID-19 Pandemic: Challenge and Response in Higher Education Education and Research | Remote Global Outreach Programme 4.0 (rGOP 4.0), UiTM Kuala Pilah, September 1-2, 2020 |
| 4. Conventional Chromatography Techniques for Isolation of Phenolic Compounds | 2 nd Seminar Series on Tropical Plant Biotechnology, Biotechnology of Medicinal Plant Biotechnology, Universitas Airlangga, July 10, 2021 |

D. RESEARCH PROJECT (LAST FOUR YEARS)

- 2022**
1. Experimental and Computational Studies of Secondary Metabolic Compounds from Tropical Plants as Drug Candidates, Riset MANDAT, UNIVERSITAS AIRLANGGA, project leader
 2. Nano Sambung Nyawa (*Gynura procumbens*) as Herbal Medicine Standardized to Support National Drug Independence (second year), PT, DPRM, DIKTI, project leader

3. Coumarin Derivative Exploration of *Clausena excavata* as Enzyme Inhibitor -Glucosidase Using the In Vitro Approach and In Silico, PDD, DPRM, DIKTI, project leader
 4. Study of Bioactivity and Effects Synergistic Herbal Medicine Formula from Zingiberaceae family, PDD, DPRM, DIKTI, project leader
- 2021**
1. Development of Standardized Anticancer Herbal Medicines Based on Indonesian Medicinal Plants Using Nano Technology (second year), PTUPT, DPRM DIKTI, project leader
 2. Nano Sambung Nyawa (*Gynura procumbens*) as Herbal Medicine Standardized to Support National Drug Independence (first year), PT, DPRM DIKTI, project leader
 3. Antioxidant Activity and Inhibition of Xanthine Oxidase of *Sidaguri (Sida rhombifolia)* from Different Growing Locations and Extracting Solvents, Indonesian Collaborative Research Grant (second year), RKI, WCU Universitas Airlangga, project leader
 4. Exploration of Bioactive Compounds from Selected Tropical Plants, Overseas Collaborative Mandate Research Grants, WCU Universitas Airlangga, project leader
- 2020**
1. Development of Standardized Anticancer Herbal Medicines Based on Indonesian Medicinal Plants Using Nano Technology (first year), PTUPT, DPRM DIKTI, project leader
 2. Formulation of Antidiabetic Drug Preparations from Ellagic Acid Derivative Compounds from the Gowok Plant (*Syzygium polycephalum*) with Nano Technology (second year), PD, DPRM DIKTI, project leader
 3. Antioxidant Activity and Inhibition of Xanthine Oxidase of *Sidaguri (Sida rhombifolia)* from Different Growing Locations and Extracting Solvents, Indonesian Collaborative Research Grant (first year), WCU, Universitas Airlangga, project leader
- 2019**
- Formulation of Antidiabetic Drug Preparations from Ellagic Acid Derivative Compounds from the Gowok Plant (*Syzygium polycephalum*) with Nano Technology (second year), PD, DPRM DIKTI, project leader
- 2018**
- Exploration of New Phenolic Compounds and Test of Free Radical Inhibition Activity of Several Tropical Plants, Riset Mandat, Universitas Airlangga, project leader