

## DAFTAR PUSTAKA

1. Hasanah AN, Nazaruddin F, Febrina E, Zuhrotun A. Analisis Kandungan Minyak Atsiri dan Uji Aktivitas Antiinflamasi Ekstrak Rimpang Kencur ( *Kaempferia galanga* L.). *J Mat Sains*. 2011;16(3):147–52.
2. Kurnianto S, Kusnanto, Padoli. Penyembuhan Luka Bakar Pada Tikus Putih Dengan Menggunakan Ekstrak Daun Pegagan dan Ekstrak Daun Petai Cina. *J Ilm Kesehat*. 2017;10(2):70–5.
3. Fauziah M, Soniya Firinda. Potensi Tanaman Zigzag Sebagai Penyembuh Luka. 2020;2:39–44.
4. Depkes. Riset Kesehatan Dasar. Jakarta: Badan Penelitian dan Pengembangan Kesehatan Kementerian Kesehatan RI. 2013;
5. Khotimah N, Muhtadi A. Review Artikel : Beberapa Tumbuhan Yang Mengandung Senyawa Aktif Inflamasi. 2016;14:28–40.
6. Ramadhani N, Sumiwi SA. Aktivitas Antiinflamasi Berbagai Tanaman Diduga Berasal dari Flavonoid. 2016;14:111–23. Available from: <http://jurnal.unpad.ac.id/farmaka/article/view/10816>
7. Wardani IGAK. Efektivitas gel ekstrak Bunga Kecombrang (*Etligeria elatior*) sebagai antiinflamasi terhadap mencit yang diinduksi karagenan. 2020;6(1):66–71.
8. Fristiohady A, Malik F, Fariane N. Uji Aktivitas Antiinfl amasi In Vitro *Etligeria elatior* ( Jack ) R . M . Smith dengan Metode Stabilisasi Membran Sel Darah Merah ( In Vitro Antiinfl ammatory Activity of *Etligeria elatior* ( Jack ) R . M . Smith by Hrbc Membrane Stabilization Method ). 2020;18(2).
9. Wandita GA, Musrifoh I. Review Artikel: Tanaman Suku Zingiberaceae Yang Memiliki Aktivitas Sebagai Antioksidan. *Farmaka*. 2018;16(2):564–71.
10. Rahayu L, Dewi RS, Ayu G. Uji Efek Anti-Inflamasi dan Analgesik Infusa Daun Senggani ( *Melastoma malabathricum* L.). 2016;14(1):10–5.
11. V. Stankov S. Definition of Inflammation, Causes of Inflammation and Possible Anti-inflammatory Strategies. *Open Inflamm J*. 2012;5(1):1–9.
12. Germolec DR, Shipkowski KA, Frawley RP, Evans E. Markers of inflammation. *Methods Mol Biol*. 2018;1803:57–79.
13. Simmonds RE, Foxwell BM. Signalling, inflammation and arthritis: NF- $\kappa$ B and its relevance to arthritis and inflammation. *Rheumatology*.

2008;47(5):584–90.

14. Tia Santika Dewi A, Puspawati N, Suarya P. Aktivitas Antiinflamasi Ekstrak Eter Kulit Batang Tenggulun (*Protium Javanicum* Burm) Terhadap Edema Pada Tikus Wistar Yang Diinduksi Dengan Karagenan. *J Kim.* 2015;9(1):13–9.
15. Zhou YQ, Liu H, He MX, Wang R, Zeng QQ, Wang Y, et al. A review of the botany, phytochemical, and pharmacological properties of galangal [Internet]. Vol. 7, Natural and Artificial Flavoring Agents and Food Dyes: Handbook of Food Bioengineering. Elsevier Inc.; 2018. 351–396 p. Available from: <http://dx.doi.org/10.1016/B978-0-12-811518-3/00011-9>
16. Han ES, Goleman, Daniel; Boyatzis, Richard; Mckee A. Biodiversitas Zingiberaceae Mijen Kota Semarang. Vol. 53, *Journal of Chemical Information and Modeling.* 2019. 1689–1699 p.
17. Megantara S, Sholeh. Karakteristik Morfologi Tanaman Kencur (*Kaempferia galanga* L.) dan Aktivitas Farmakologi. 2019;17:256–62.
18. Silalahi M. Kencur (*Kaempferia galanga*) dan Bioaktivitasnya. *J Pendidik Inform dan Sains.* 2019;8(1):127.
19. Chao X, Liang Y, Shi WP, Liu QZ, Zhou L, Liu XINC, et al. Repellent and Insecticidal Effects of the Essential Oil of *Kaempferia galanga* Rhizomes to *Liposcelis bostrychophila* (Psocoptera: Liposcelidae). 2014;
20. Ali H, Yesmin R, Satter MA, Habib R, Yeasmin T. Antioxidant and antineoplastic activities of methanolic extract of *Kaempferia galanga* Linn. Rhizome against Ehrlich ascites carcinoma cells. *J King Saud Univ - Sci* [Internet]. 2018;30(3):386–92. Available from: <https://doi.org/10.1016/j.jksus.2017.05.009>
21. Xiao RY, Wu LJ, Hong XX, Tao L, Luo P, Shen XC. Screening of analgesic and anti-inflammatory active component in *Fructus Alpiniae zerumbet* based on spectrum–effect relationship and GC–MS. *Biomed Chromatogr.* 2018;32(3).
22. Thi P, Tu B, Tawata S. Anti-Oxidant, Anti-Aging, and Anti-Melanogenic Properties of The Essential Oils from Two Varieties of *Alpinia zerumbet*. 2015;16723–40.
23. Chompoo J, Upadhyay A, Fukuta M, Tawata S. Effect of *Alpinia zerumbet* components on antioxidant and skin diseases-related enzymes. 2012;
24. Tungcharoen P, Wattanapiromsakul C, Tansakul P, Nakamura S, Matsuda H, Tewtrakul S. Antiinflammation constituents from *Curcuma zedoaroides*. *Phyther Res.* 2018;32(11):2312–20.

25. Akmalia RA, Hajrah LR. Aktivitas Antiinflamasi Ekstrak Rimpang Temu Kunci (*Boesenbergia pandurata*) Secara In Vitro. 2016;20–1.
26. Pratomo NA, Yunita E, Widyarini S, Anshory H. Efek Anti Angiogenesis Temu Kunci (*Boesenbergia pandurata*, (Roxb.) Schlecht) Pada Membran Korio Alantois Embrio Ayam yang Diinduksi Basic Fiboblast Growth Factor (bFGF). *Khazanah*. 2014;6(2):35–45.
27. Sudsai T, Prabpai S, Kongsaree P, Wattanapiromsakul C, Tewtrakul S. Anti-inflammatory activity of compounds from *Boesenbergia longiflora* rhizomes. *J Ethnopharmacol*. 2014;154(2):453–61.
28. Susila AH, Sumarno, Dewi D. Efek Ekstrak Jahe (*Zingiber officinale* Rosc .) terhadap Penurunan Tanda Inflamasi Eritema pada Tikus Putih (*Rattus novergicus*) Galur Wistar dengan Luka Bakar Derajat II Andriawan Hendra Susila \*, Sumarno \*\*, Dina Dewi SLI \* PENDAHULUAN Kulit merupakan. *Maj Kesehat FKUB*. 2014;1:214–22.
29. Osuntokun OT. *Aframomum Melegueta* ( Grains of Paradise ). 2020;(January).
30. Sugita J, Yoneshiro T, Hatano T, Aita S, Ikemoto T, Uchiwa H, et al. Grains of paradise (*Aframomum melegueta*) extract activates brown adipose tissue and increases whole-body energy expenditure in men. *Br J Nutr*. 2013;110(4):733–8.
31. Huang K, Lin M, Hsu Y, Lu I, Pan I, Yang J. *Alpinia oxyphylla* Fruit Extract Ameliorates Experimental Autoimmune Encephalomyelitis through the Regulation of Th1 / Th17 Cells. 2019;2019.
32. Shi W, Zhong J, Zhang Q, Yan C. Structural characterization and antineuroinflammatory activity of a novel heteropolysaccharide obtained from the fruits of *Alpinia oxyphylla*. *Carbohydr Polym* [Internet]. 2020;229(October 2019):115405. Available from: <https://doi.org/10.1016/j.carbpol.2019.115405>
33. Zhang Q, Zheng Y, Hu X, Hu X, Lv W, Lv D, et al. Ethnopharmacological uses, phytochemistry, biological activities, and therapeutic applications of *Alpinia oxyphylla* Miquel: A review. *J Ethnopharmacol* [Internet]. 2018;224:149–68. Available from: <https://doi.org/10.1016/j.jep.2018.05.002>
34. Delnatte C, Meyer JY. Plant introduction, naturalization, and invasion in French Guiana (South America). *Biol Invasions*. 2012;14(5):915–27.
35. Arambewela LSR, Arawwawala LDAM. Standardization of *Alpinia calcarata* Roscoe rhizomes. 2010;(As 01).
36. Rahman A, Islam S. *Alpinia calcarata* Roscoe : A potential

- phytopharmacological source of natural medicine. 2015;9(17).
37. Padalia RC, Verma RS, Sundaresan V, Chanotiya CS. Chemical diversity in the genus *Alpinia* (Zingiberaceae): Comparative composition of cour *Alpinia* species grown in Northern India. *Chem Biodivers*. 2010;7(8):2076–87.
  38. Jamil AS, Ahmad M. Predictive Pharmacological Activity of Galangal Rhizome (*Alpinia galanga* (L.) Willd.) Through in Silico Analysis as an Effort to Accelerate The Research of Indonesian Medicinal Plants. *El-Hayah*. 2020;7(4):160–6.
  39. Bhattacharyya N, Ghosh A, Banerjee M. Anti-inflammatory activity of root of *Alpinia galanga* willd. *Chronicles Young Sci*. 2011;2(3):139.
  40. Mukherjee A, Chouhan GK, Singh S, Chatterjee K, Kumar A, Gaurav AK, et al. *Alpinia officinarum*. *Nat Occur Chem Against Alzheimer's Dis*. 2021;(December 2020):453–61.
  41. Wang JT, Ge D, Qu HF, Wang GK, Wang G. Chemical constituents of *Curcuma kwangsiensis* and their antimigratory activities in RKO cells. *Nat Prod Res [Internet]*. 2019;33(24):3493–9. Available from: <https://doi.org/10.1080/14786419.2018.1484463>
  42. Zhou Y, Xie M, Song Y, Wang W, Zhao H, Tian Y, et al. Two Traditional Chinese Medicines *Curcumae Radix* and *Curcumae Rhizoma*: An Ethnopharmacology, Phytochemistry, and Pharmacology Review. *Evidence-based Complement Altern Med*. 2016;2016.
  43. Zhang L, Yang Z, Huang Z, Zhao M, Li P, Zhou W, et al. Variation in essential oil and bioactive compounds of *Curcuma kwangsiensis* collected from natural habitats. *Int J Lab Hematol*. 2016;38(1):42–9.
  44. Le TH, Dao TMC, Nguyen VH, Do ND, Isiaka AO. Volatile constituents of *Distichochlamys citrea* M. F. Newman and *Distichochlamys orlowii* K. Larsen M. F. Newman (Zingiberaceae) from Vietnam. *J Med Plants Res*. 2017;11(9):188–93.
  45. Pham TV, Hoang HNT, Nguyen HT, Nguyen HM, Huynh CT, Vu TY, et al. Anti-Inflammatory and Antimicrobial Activities of Compounds Isolated from *Distichochlamys benenica*. *Biomed Res Int*. 2021;2021.
  46. Sulaiman MR, Perimal EK, Akhtar MN, Mohamad AS, Khalid MH, Tasrip NA, et al. “Anti-inflammatory Effect of Zerumbone on Acute and Chronic Inflammation Models in Mice.” 2010;81:855–8.
  47. Zakaria ZA, Yob NJ, Jofrry SM, Affandi MMRMM, Teh LK, Salleh MZ. *Zingiber zerumbet* (L.) Smith: A review of its ethnomedicinal, chemical, and pharmacological uses. *Evidence-based Complement Altern Med*.

2011;2011.

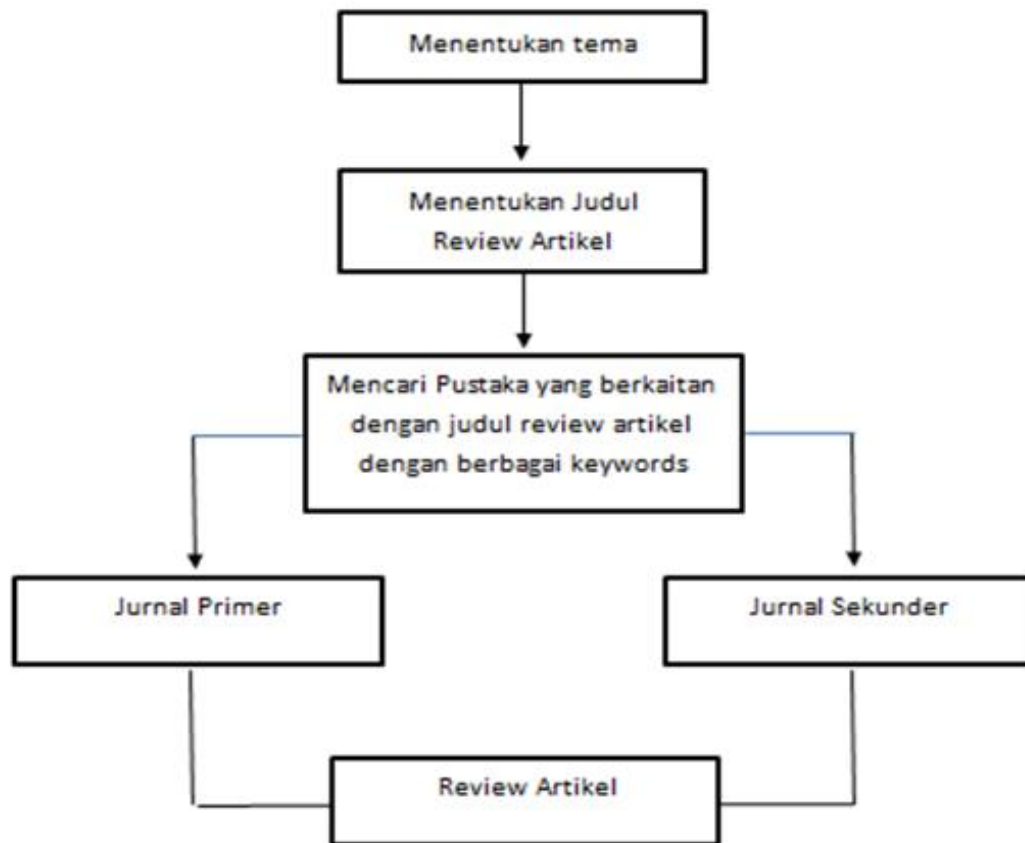
48. Srisook K, Srisook E. Pharmacological Activities and Phytochemicals of *Etlingera pavieana* (Pierre ex Gagnep) R.M.Sm . *Med Plants - Use Prev Treat Dis.* 2020;(September).
49. Srisook K, Mankhong S, Chiranthanut N, Kongsamak K, Kitwiwat N thanit, Tongjurai P, et al. Anti-inflammatory effect of trans-4-methoxycinnamaldehyde from *Etlingera pavieana* in LPS-stimulated macrophages mediated through inactivation of NF- $\kappa$ B and JNK/c-Jun signaling pathways and in rat models of acute inflammation. *Toxicol Appl Pharmacol* [Internet]. 2019;371(January):3–11. Available from: <https://doi.org/10.1016/j.taap.2019.03.026>
50. Taib MNAM, Anuar N, Hanafiah KM, Aeman Ali Kudayr Al-Shammary MS, Awa K. Chemicals Constituents Isolated from Cultivate *Alpinia conchigera* Griff . and Antimicrobial Activity. 2020;31(1).
51. Lim TK. *Alpinia conchigera*. Edible Medicinal and Non-Medicinal Plants. *Edible Med Non-Medicinal Plants Vol 12 Modif Stems, Roots, Bulb.* 2016;12:1–690.
52. Kojima-Yuasa A, Matsui-Yuasa I. Pharmacological Effects of 1'-Acetoxychavicol Acetate, a Major Constituent in the Rhizomes of *Alpinia galanga* and *Alpinia conchigera*. *J Med Food.* 2020;23(5):465–75.
53. Mary HPA, Susheela GK, Jayasree S, Nizzy AM, Rajagopal B, Jeeva S. Phytochemical characterization and antimicrobial activity of *Curcuma xanthorrhiza* Roxb. *Asian Pac J Trop Biomed* [Internet]. 2012;2(2 SUPPL.):S637–40. Available from: [http://dx.doi.org/10.1016/S2221-1691\(12\)60288-3](http://dx.doi.org/10.1016/S2221-1691(12)60288-3)
54. Sujono TA, Patimah R, Yuliani R. Efek Antiinflamasi Infusa Rimpang Temu Putih (*Curcuma zedoaria* (Berg) Roscoe) pada Tikus yang Diinduksi Karagenan. *Biomedika.* 2012;4(2).
55. Umar MI, Asmawi MZ, Sadikun A, Atangwho IJ, Yam MF, Altaf R, et al. "Bioactivity-Guided Isolation of Ethyl-p-methoxycinnamate an Anti-inflammatory Constituent from *Kaempferia galanga* L. Extracts." 2012;8720–34.
56. Ezzat SM, Ezzat MI, Okba MM, Menze ET, Abdel-naim AB. The hidden mechanism beyond ginger (*Zingiber officinale* Rosc.) potent in vivo and in vitro anti-inflammatory activity. *J Ethnopharmacol* [Internet]. 2017; Available from: <https://doi.org/10.1016/j.jep.2017.12.019>
57. Hyun S, Jin H, Yeong S, Ran M, Su B, Jun J, et al. "Antiinflammatory and Anti-Nociceptive Activities of *Alpinia Oxyphylla* Miquel Extract in Animal Models." *J Ethnopharmacol* [Internet]. 2020;260(December

- 2019):112985. Available from: <https://doi.org/10.1016/j.jep.2020.112985>
58. Arawwawala LDAM, Arambewela LSR, Ratnasooriya WD. *Alpinia calcarata* Roscoe: A Potent Antiinflammatory Agent. *J Ethnopharmacol* [Internet]. 2012;139(3):889–92. Available from: <http://dx.doi.org/10.1016/j.jep.2011.12.036>
  59. Ilic NM, Dey M, Poulev AA, Logendra S, Kuhn PE, Raskin I. Anti-inflammatory activity of grains of paradise (*Aframomum Melegueta* Schum) extract. *J Agric Food Chem*. 2014;62(43):10452–7.
  60. Honmore VS, Kandhare AD, Kadam PP, Khedkar VM, Sarkar D, Bodhankar SL, et al. Isolates of *Alpinia officinarum* Hance as COX-2 inhibitors : Evidence from anti-inflammatory , antioxidant and molecular docking studies. *Int Immunopharmacol* [Internet]. 2016;33:8–17. Available from: <http://dx.doi.org/10.1016/j.intimp.2016.01.024>
  61. Yuan H, Zhao Y, Ding C, Zhu P, Jin Q, Liu Y, et al. “Anti-inflammatory and Antinociceptive Effects of *Curcuma kwangsiensis* and its Bioactive Terpenoids In vivo and In vitro.” *J Ethnopharmacol* [Internet]. 2020;(27 April 2020):112935. Available from: <https://doi.org/10.1016/j.jep.2020.112935>
  62. Srisook K, Mankhong S, Chiranthanut N, Kongsamak K. Anti-inflammatory effect of trans-4-methoxycinnamaldehyde from *Etilingera pavieana* in LPS-stimulated macrophages mediated through inactivation of NF- $\kappa$ B and JNK / c-Jun signaling pathways and in rat models of acute inflammation. *Toxicol Appl Pharmacol* [Internet]. 2019;371(January):3–11. Available from: <https://doi.org/10.1016/j.taap.2019.03.026>
  63. Sulaiman MR, Zakaria ZA, Mohamad AS, Ismail M, Hidayat MT, Israf DA, et al. Antinociceptive and anti-inflammatory effects of the ethanol extract of *Alpinia conchigera* rhizomes in various animal models. *Pharm Biol*. 2010;48(8):861–8.
  64. Jung YC, Kim ME, Yoon JH, Park PR, Youn HY, Lee HW, et al. Anti-inflammatory effects of galangin on lipopolysaccharide-activated macrophages via ERK and NF- $\kappa$ B pathway regulation. *Immunopharmacol Immunotoxicol*. 2014;36(6):426–32.
  65. Jiang B, Wang WJ, Li MP, Huang XJ, Huang F, Gao H, et al. New eudesmane sesquiterpenes from *Alpinia oxyphylla* and determination of their inhibitory effects on microglia. *Bioorganic Med Chem Lett* [Internet]. 2013;23(13):3879–83. Available from: <http://dx.doi.org/10.1016/j.bmcl.2013.04.072>
  66. Rosmalina RT, Endah ES, Ridwan YS. Method Validation of 1,8-cineole Determination in Essential Oil through Interlaboratory Comparison. *J Stand*. 2020;22(1):25–34.

67. Lee JS, Kim KA, Jeong SH, Lee SG, Park HJ, Kim NJ, et al. Anti-inflammatory, anti-nociceptive, and anti-psychiatric effects by the rhizomes of *Alpinia officinarum* on complete Freund's adjuvant-induced arthritis in rats. *J Ethnopharmacol.* 2009;126(2):258–64.
68. Honmore VS, Kandhare AD, Kadam PP, Khedkar VM, Sarkar D, Bodhankar SL, et al. Isolates of *Alpinia officinarum* Hance as COX-2 inhibitors : Evidence from anti-inflammatory , antioxidant and molecular docking studies. *Int Immunopharmacol.* 2016;33:8–17.
69. Liao HB, Feng WY, Wang HS, Liang D. Sesquiterpenoid Compounds from *Curcuma kwangsiensis*. *Chem Biodivers.* 2019;16(5).
70. Farida Y, Rahmat D, Amanda AGIW. Uji Aktivitas Antiinflamasi Nanopartikel Ekstrak Etanol Rimpang Temulawak ( *Curcuma xanthorrhiza* Roxb . ) dengan Metode Penghambatan Denaturasi Protein ( Anti-Inflammation Activity Test of Nanoparticles Ethanol Extract of Temulawak Rhizome ( *Curcuma xan.* *J ilmu Kefarmasian Indones.* 2018;16(2):225–30.
71. Sumathi S, Anuradha R. In vitro anti-inflammatory activity of flower extract of *Couroupita guianensis* Aubl. 2016;4(5):5–8.

## LAMPIRAN 1

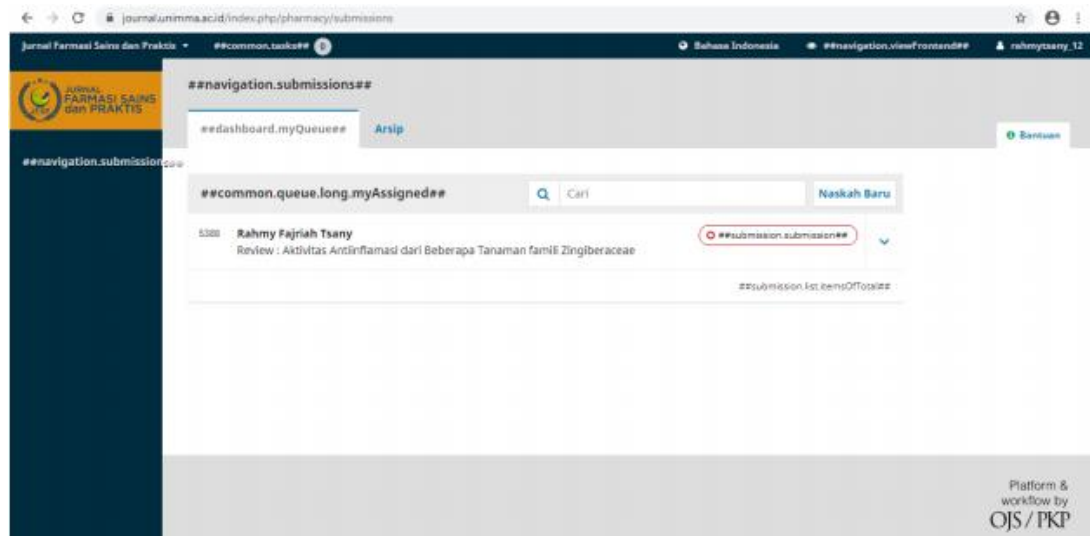
### ALUR *REVIEW* ARTIKEL



Gambar II.1 Alur *review* artikel

## LAMPIRAN 2

### BUKTI SUBMIT JURNAL



**Gambar II.2 Bukti submit jurnal**

**DAFTAR RIWAYAT HIDUP****DATA PRIBADI**

Nama : Rahmy Fajriah Tsany  
Tempat, Tanggal, Lahir : Garut, 12 April 1999  
Jenis Kelamin : Perempuan  
Agama : Islam  
Status : Mahasiswa  
Warga Negara : Indonesia  
Alamat : Kp. Sukapadang RT 01/RW 08 Kel. Sukakarya  
Kec. Tarogong Kidul Kab. Garut Jawa Barat 44151  
No. Telepon : 089522428816  
Email : [rahmytsany12@gmail.com](mailto:rahmytsany12@gmail.com)

**PENDIDIKAN**

SDIT Persis Tarogong 2005-2011  
MTs Darul Arqam Putri 2011-2014  
MA Darul Arqam Putri 2014-2017  
Univesritas Garut Prodi S1 Farmasi 2017-2021

**PENGALAMAN ORGANISASI****Madrasah Aliyah (MA)**

Ikatan Pelajar Muhammadiyah

**Universitas**

Lembaga Dakwah Kampus Asyifa (Anggota)