

DAFTAR PUSTAKA

- Alzheimer's Disease International. 2022. *World Alzheimer's Report*. URL: <https://www.alzint.org/u/World-Alzheimer-Report-2022.pdf>. Diakses tanggal 27 Desember 2022.
- Demartis, S., Anjani, Q.K., Volpe-Zanutto, F., Paredes, A.J., Jahan, S.A., Vora, L.K., Donnelly, R.F. dan Gavini, E. 2022. Trilayer dissolving polymeric microneedle array loading Rose Bengal transfersomes as a novel adjuvant in early-stage cutaneous melanoma management. *International Journal of Pharmaceutics* 627(122217): 1-14.
- Elim, D., Fitri, A.M.N., Mahfud, M.A.S.B., Afika, N., Sultan, N.A.F., Asri, R.M. dan Permana, A.D. 2023. Hydrogel forming microneedle-mediated transdermal delivery of sildenafil citrate from polyethylene glycol reservoir: An ex vivo proof of concept study. *Colloids and Surfaces B: Biointerfaces* 222(113018): 1-13.
- Eum, J., Kim, Y., Um, D.J., Shin, J., Yang, H. dan Jung, H. 2021. Solvent-free polycaprolactone dissolving microneedles generated via the thermal melting method for the sustained release of capsaicin. *Micromachines* 12(2): 167.
- Ezzat, S.M., Salem, M.A., El Mahdy, N.M. dan Ragab, M.F. 2021. *Naturally Occurring Chemicals Against Alzheimer's Disease*. Academic Press. United States.
- Guimarães, T.M., Moniz, T., Nunes, C., Zaharieva, M.M., Kaleva, M., Yoncheva, K., Najdenski, H., Costa Lima, S.A. dan Reis, S. 2022. Polymeric microneedles for transdermal delivery of rivastigmine: design and application in skin mimetic model. *Pharmaceutics* 14(4): 752.
- Lee, S., Chintalapudi, K. dan Badu-Tawiah, A.K. 2021. Clinical Chemistry for Developing Countries: Mass Spectrometry. *Annual Review of Analytical Chemistry* 14(1): 437–465.
- Li, M., Vora, L.K., Peng, K. dan Donnelly, R.F. 2022. Trilayer microneedle array assisted transdermal and intradermal delivery of dexamethasone. *International Journal of Pharmaceutics* 612(121295): 1-11.
- Liu, W., Duan, W., Jia, L., Wang, S., Guo, Y., Zhang, G., Zhu, B., Huang, W. dan Zhang, S. 2022. Surface plasmon-enhanced photoelectrochemical sensor based on Au modified TiO₂ nanotubes. *Nanomaterials* 12(12): 2058.
- Manzoor, M., Raza, S.A., Asim, M.H., Bukhari, N.I., Arshad, S. dan Zafar, U. 2022. Safety and pharmaceutical evaluation of a novel natural polymer, ocimum, as solubility and dissolution enhancer in solid dispersion. *Pharmaceutics* 15(7): 869.
- Paredes, P.E. McKenna, I.K. Ramöller, Y.A. Naser, F. Volpe-Zanutto, M. Li, M. T.A. Abbate, L. Zhao, C. Zhang, J.M. Abu-Ershaid, X. D. dan Donnelly, R. F. 2020. Microarray patches: poking a hole in the challenges faced when delivering poorly
- Adv. Funct. Mater. 31 (1): 1–27.
- Zanutto, F., Permana, A.D., Murphy, A.J., Picco, C.J., Vora, L.K., dan Donnelly, R.F. 2021. Novel tip-loaded dissolving and implantable array patches for sustained release of finasteride. *International journal* s. 606: 1-12.
- Zanutto, F., Vora, L.K., Tekko, I.A., Permana, A.D., Picco, C.J., dan Donnelly, R.F. 2022. Systemic delivery of tenofovir alafenamide



- using dissolving and implantable microneedle patches. *Materials Today Bio.* 13: 1-1.
- Permana, A.D., Paredes, A.J., Volpe-Zanutto, F., Anjani, Q.K., Utomo, E. dan Donnelly, R.F. 2020. Dissolving microneedle-mediated dermal delivery of itraconazole nanocrystals for improved treatment of cutaneous candidiasis. *European Journal of Pharmaceutics and Biopharmaceutics* 154: 50-61.
- Permana, A.D., Paredes, A.J., Zanutto, F.V., Amir, M.N., Ismail, I., Bahar, M.A., Sumarheni, Palma, S.D. dan Donnelly, R.F. 2021. Albendazole nanocrystal-based dissolving microneedles with improved pharmacokinetic performance for enhanced treatment of cystic echinococcosis. *ACS Applied Materials & Interfaces* 13(32): 38745-38760.
- Permana, A.D., Tekko, I.A., McCrudden, M.T., Anjani, Q.K., Ramadon, D., McCarthy, H.O. dan Donnelly, R.F. 2019. Solid lipid nanoparticle-based dissolving microneedles: A promising intradermal lymph targeting drug delivery system with potential for enhanced treatment of lymphatic filariasis. *Journal of controlled release* 316: 34-52.
- Rabiei, M., Kashanian, S., Bahrami, G., Derakhshankhah, H., Barzegari, E., Samavati, S.S. dan McInnes, S.J. 2021. Dissolving microneedle-assisted long-acting Liraglutide delivery to control type 2 diabetes and obesity. *European Journal of Pharmaceutical Sciences.* 167: 1-9.
- Roska, T.P., Mudjahid, M., Marzaman, A.N.F., Datu, N.N.P. dan Permana, A.D. 2022. Development of chloramphenicol wound dressing protein-based microparticles in chitosan hydrogel system for improved effectiveness of dermal wound therapy. *Biomaterials Advances* 143(213175): 1-15.
- Shen, D., Yu, H., Wang, L., Chen, X., Feng, J., Zhang, Q., Xiong, W., Pan, J., Han, Y. dan Liu, X. 2021. Biodegradable phenylboronic acid-modified ϵ -polylysine for glucose-responsive insulin delivery via transdermal microneedles. *Journal of Materials Chemistry B* 9(30): 6017-6028.
- Sharma, K. 2019. Cholinesterase inhibitors as Alzheimer's therapeutics. *Molecular medicine reports* 20(2), pp.1479-1487.
- Sianturi, A.G.M. 2021. Stadium, Diagnosis, dan Tatalaksana Penyakit Alzheimer. *Majalah Kesehatan Indonesia* 2(2): 39-44.
- Sultana, N., Ali, A., Waheed, A., Jabi, B., Mujeeb, M., Sultana, Y. dan Aqil, M. 2023. Dissolving microneedle transdermal patch loaded with Risedronate sodium and Ursolic acid bipartite nanotransfersomes to combat osteoporosis: Optimization, characterization, in vitro and ex vivo assessment. *International Journal of Pharmaceutics* 644(123335): 1-16.
- Supre, S. dan Takudage, P. 2021. Methods for evaluating penetration of drug into the skin: A review. *Skin Research and Technology* 27 (3): 299-308.



., Volpe-Zanutto, F., Moffatt, K., Jarrahian, C., McCarthy, H.O. dan
2021. Novel Bilayer Microarray Patch-Assisted Long-Acting Micro-
avir Intradermal Delivery for HIV Pre-Exposure Prophylaxis. *Adv.*
2: 1-18.

., A.J., Tekko, I.A., Larrañeta, E. dan Donnelly, R.F. 2020. Pullulan-
g microneedle arrays for enhanced transdermal delivery of small

- and large biomolecules. *International Journal of Biological Macromolecules* 146: 290–298.
- Vora, L.K., Moffatt, K., Tekko, I.A., Paredes, A.J., Volpe-Zanutto, F., Mishra, D., Peng, K., Thakur, R.R.S. dan Donnelly, R.F. 2021. Microneedle array systems for long-acting drug delivery. *European Journal of Pharmaceutics and Biopharmaceutics* 159: 44-76.
- Wu, Y., Vora, L.K., Mishra, D., Adrianto, M.F., Gade, S., Paredes, A.J., Donnelly, R.F. dan Singh, T.R.R. 2022. Nanosuspension-loaded dissolving bilayer microneedles for hydrophobic drug delivery to the posterior segment of the eye. *Biomaterials Advances* 137: 212767.
- Yang, L., Yang, Y., Chen, H., Mei, L. dan Zeng, X. 2022. Polymeric microneedle-mediated sustained release systems: Design strategies and promising applications for drug delivery. *Asian Journal of Pharmaceutical Sciences* 17 (1): 70–86.
- Zhao, Z., Zhang, B., Chu, H., Liang, L. Chen, B. Zheng, H. dan Guo, X. 2022. A high-dosage microneedle for programmable lidocaine delivery and enhanced local long-lasting analgesia. *Biomaterial Advances*. 133: 1-10.
- Zhuang, J., Rao, F., Wu, D., Huang, Y., Xu, H., Zhang, W. dan Sun, J. 2020. Study on the fabrication and characterization of tip-loaded dissolving microneedles for transdermal drug delivery. *European Journal of Pharmaceutics and Biopharmaceutics*. 157: 66-73

