

DAFTAR PUSTAKA

- Doria, A., Zen, M., Bettio, S., Gatto, M., Bassi, N., Nalotto, L., Ghirardello, A., and Punzi, L.L. 2012. Autoinflammation and Autoimmunity: Bridging the Divide. *Autoimmun Rev.* (12): 22–30.
- Abrahams, S., William L. H., Glynis, J., Jonathan, A.C., and Soraya, B. 2019. Antioxidant Effects of Curcumin in Models of Neurodegeneration, Aging, Oxidative and Nitrosative Stress: A Review. *Neuroscience.* (406): 1–21.
- Aksentijevich, I., Seth L. M., Polly J. F., Paul, D., Joost, F., Annet, R. van., Ron, L. 2009. An Autoinflammatory Disease with Deficiency of the Interleukin-1–Receptor Antagonist. *New England Journal of Medicine.* 360 (23): 2426–37.
- Balistreri, C. R., Giuseppina, C., Giulia, A., Giuseppine, C.R., and Domenico, L. 2013. NF-KB Pathway Activators as Potential Ageing Biomarkers: Targets for New Therapeutic Strategies. *Immunity and Ageing.* 10 (1): 1–16.
- Beck, D.B., and Aksentijevich, I. 2019. Biochemistry of Autoinflammatory Diseases: Catalyzing Monogenic Disease. *Frontiers in Immunology.* 10 (1): 1–14.
- Ben-Chetrit, E., Gattorno, M., Gul, A., Kastner, D.L., Lachmann, H.J., Touitou, I, and Ruperto, N. 2018. Consensus Proposal for Taxonomy and Definition of the Autoinflammatory Diseases (AIDs): A Delphi Study. *Ann Rheum Dis.* 11 (77): 1558–65.
- Bender, A., Paula, D., Brian, S., Edward, R., Anthony, A., Matthias E., Christoph, L. 2013. TOM40 Mediates Mitochondrial Dysfunction Induced by α -Synuclein Accumulation in Parkinson's Disease. *PLoS One.* 8 (4).
- Caso, F., Luisa, C., Valeria, N., Giuseppe, B., Ignazio, F. M., Rossella, T., Paolo, C., Raffaele, S., Piercarlo, S., and Fabiola, A. 2018. From Autoinflammation to Autoimmunity: Old and Recent Findings. *Clinical Rheumatology.* 37 (9): 2305–21.
- Cedikova, M., P. Pitule, M. Kripnerova, M. Markova, and J. Kuncová. 2016. Multiple Roles of Mitochondria in Aging Processes. *Physiological Research.* 65: (5) 19–31.
- Chandrashekara, K. T., Sonam, P., and Shakarad, M. N. 2014. Curcumin Enhances Parental Reproductive Lifespan and Progeny Viability in *Drosophila Melanogaster*. *Age* 36 (5).

- Charroux, B., Capo, F., Kurz, C.L., Peslier, S., Chaduli, D., Viallat-lieutaud, A., Royet, J., 2018. Cytosolic and Secreted Peptidoglycan-Degrading Enzymes in *Drosophila* Respectively Control Local and Systemic Immune Responses to Microbiota. *Cell Host Microbe* 23. 215-228.
- Chongtham, A, and Namita, A. 2016. Curcumin Modulates Cell Death and Is Protective in Huntington's Disease Model. *Scientific Reports* 6. (7): 1–10.
- Ciccarelli, F., Martinis, M., and Ginaldi, L. 2013. An Update on Autoinflammatory Diseases." *Current Medicinal Chemistry*. 21 (3): 261–69.
- Colin, J., Garibal, J., Mignotte, B., and Guénal, I. 2009. The Mitochondrial TOM Complex Modulates Bax-Induced Apoptosis in *Drosophila*. *Biochemical and Biophysical Research Communications*. 379 (4): 939–43.
- Cruz, C.S.D, Kang, M.J. 2018. Mitochondrial Dysfunction and Damage Associated Molecular Patterns (DAMPs) in Chronic Inflammatory Disease. *Mitochondrion*. 176 (1): 100–106.
- El-Shebiny, Emad M., Enas S. Zahran, Sabry A. Shoeib, and Eman S. Habib. 2021. Bridging Autoinflammatory and Autoimmune Diseases. *The Egyptian Journal of Internal Medicine*. 33 (1).
- Evangelakou, Z., Maria, M., Sentiljana, G., and Ioannis, P.T. 2019. Nutrigenomics as a Tool to Study the Impact of Diet on Aging and Age-Related Diseases: The *Drosophila* Approach. *Genes and Nutrition*. 14 (1): 1–18.
- Gabande-Rodriguez, E., de las Heras, M.M.G., Mitterbrun, M. 2020. Control of Inflammation by Calorie Restriction Mimetics : On the Crossroad of Autophagy. *Cell*. 1–22.
- Gottschalk, W.K., Lutz, M.W., He, Y.T., Saunders, A.M., Burns, D.K., Roses, A.D., Chiba-Falek, O. 2016. The Broad Impact of TOM40 on Neurodegenerative Disease in Aging. *Physiology & Behavior*. 176 (12): 139–48.
- Grevel, A., Nikolaus, P., and Thomas, B. 2019. Coupling of Import and Assembly Pathways in Mitochondrial Protein Biogenesis. *Biological Chemistry*. 401 (1): 117–29.
- Haas, Richard H. 2019. Mitochondrial Dysfunction in Aging and Diseases of Aging. *Biology*. 8 (2): 1–5.
- Havnaer, A, and George, H. 2019. Autoinflammatory Disorders : A Review

and Update on Pathogenesis and Treatment. *American Journal of Clinical Dermatology*.

- Heger, K., Katherine, E., W, Ada, N., Zhang, J., Murthy, A., Debra L.D, Maltzman, A. 2018. OTULIN Limits Cell Death and Inflammation by Deubiquitinating LUBAC. *Nature*. 559 (7712): 120–24.
- Huang, Y., Wan, Z., Wang, Z., and Zhou, B. 2019. Insulin Signaling in *Drosophila Melanogaster* Mediates A β Toxicity. *Communications Biology* 2. (1).
- Hussain, R., Hira, Z., Sarah, P., and Muhammad, S. 2018. Neurodegenerative Diseases: Regenerative Mechanisms and Novel Therapeutic Approaches. *Brain Sciences*. 8 (9).
- Jesus, A.A., and Goldbach-Mansky, R. 2014. IL-1 Blockade in Autoinflammatory Syndromes¹. *Annual Review of Medicine*. 65: 223–44.
- Koga, T., and Atsushi, K. 2018. Diagnosis and Treatment of Autoinflammatory Diseases in Adults: A Clinical Approach from Rheumatologists. *Immunological Medicine*. 41 (4): 177–80.
- Kounatidis, I., Stanislava, C., Yang, C., Margaret, H., Dhruv, J., Barry, G., and Ligoxygakis, P. 2017. NF-KB Immunity in the Brain Determines Fly Lifespan in Healthy Aging and Age-Related Neurodegeneration. *Cell Reports*. 19 (4): 836–48.
- Krainer, J., Sandra, S., and Andreas, W. 2020. Systemic Autoinflammatory Diseases. *Journal of Autoimmunity*. 109 (11).
- Kumar, Arvind. 2014. Gene: Expression and Regulation (in Recent Advances in Life Sciences).” *Gene: Expression and Regulation*, no. February: 353–61.
- Lee, K.S., Byung, S.L., Sahar, S., Agnesa, A., Chae, Y.U., Hyun, J.J., Ki, M.S, Kweon, Y, Min, K.J, and Mahtab, J. 2010. Curcumin Extends Life Span, Improves Health Span, and Modulates the Expression of Age-Associated Aging Genes in *Drosophila Melanogaster*. *Rejuvenation Research*. 13 (5): 561–70.
- Lee, S.H., and Kyung, J.M. 2019. *Drosophila Melanogaster* as a Model System in the Study of Pharmacological Interventions in Aging. *Translational Medicine of Aging*. 3: 98–103.
- Li, Shiyou. 2011. Chemical Composition and Product Quality Control of Turmeric (*Curcuma Longa* L.). *Pharmaceutical Crops*. 5 (1): 28–54.

- Liu, W., Xiuying, D., Xuefei, F., Shang, W, and Tong, C. 2018. Mitochondrial Protein Import Regulates Cytosolic Protein Homeostasis and Neuronal Integrity. *Autophagy*. 14 (8): 1293–1309.
- von Loeffelholz, C., Chrivon., Stefanie, L., Neuschäfer-Rube, F., Diana, M.W., Nathanael, R., Igor M.S., Jörg, K. 2017. *The Human Longevity Gene Homolog INDY and Interleukin-6 Interact in Hepatic Lipid Metabolism. Hepatology*. 66
- López-Armada, María J., Romina R. Riveiro-Naveira, Carlos Vaamonde-García, and Marta N. Valcárcel-Ares. 2013. Mitochondrial Dysfunction and the Inflammatory Response. *Mitochondrion*. 13 (2): 106–18.
- Masumoto, J., Wei, Z., Shinnosuke, M., Sho, H., Haruka, T., Toshihiro, Y., Mie, K., and Naoe, K. 2021. Molecular Biology of Autoinflammatory Diseases. *Inflammation and Regeneration*. 41 (1).
- Moghaddas, Fiona, and Seth L. Masters. 2015. Monogenic Autoinflammatory Diseases: Cytokinopathies. *Cytokine*. 74 (2): 237–46.
- Olivo-marston, S.E., Stephen, D.H., Susan, N.P., Aaron, S., Mohammed, K., Carlo, C., Curtis, C.H., and Jackie, L. 2014. Effects of Calorie Restriction and Diet-Induced Obesity on Murine Colon Carcinogenesis, Growth and Inflammatory Factors and MicroRNA Expression. *Plos One*. 9 (4): 1–11.
- Omelyanchuk, L., Shaposhnikov, M., and Moskalev, A. 2015. Drosophila Nervous System as a Target of Aging and Anti-Aging Interventions. *Frontiers in Genetics*. 5 (2): 1–5.
- Orlans, J., Vincent-Monegat, C., Isabelle, R., Catherine, S., Agata, B, Laurent, S., Zaidman-Remy, A. 2021. PGRP-LB: An inside View into the Mechanism of the Amidase Reaction. *International Journal of Molecular Sciences*. 22 (9).
- Rambold, A.S., and Lippincott-Schwartz, J. 2011. Mechanisms of Mitochondria and Autophagy Crosstalk. *Cell Cycle*. 10 (23): 4032–38.
- Riley, J.S, and Stephen W.G.T. 2020. Mitochondrial DNA in Inflammation and Immunity. *EMBO Reports*. 21 (4): 1–17.
- Rogers, R.P., and Rogina, B. 2014. Increased Mitochondrial Biogenesis Preserves Intestinal Stem Cell Homeostasis and Contributes to Longevity in Indy Mutant Flies. *Aging*. 6 (4): 335–50.
- Rogers, R.P., and Rogina, B. 2015. The Role of INDY in Metabolism, Health and Longevity. *Frontiers in Genetics* 6 (6): 1–5.

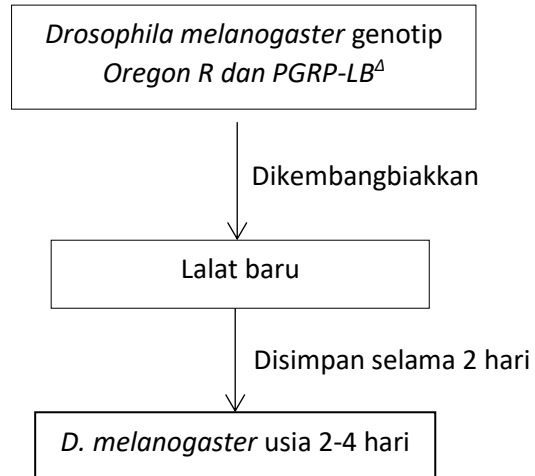
- Rogina, B., and Stephen L. H. 2013. "Indy Mutations and *Drosophila* Longevity." *Frontiers in Genetics* 4 (4): 1–8.
- Sharifi-Rad, J., El Rayess, Y., Alain, A.R., Carmen, S., Raviella, Z., Wissam, Z., Simona, S. 2020. Turmeric and Its Major Compound Curcumin on Health: Bioactive Effects and Safety Profiles for Food, Pharmaceutical, Biotechnological and Medicinal Applications. *Frontiers in Pharmacology* 11 (7).
- Simmons, E.C., Natalie E.S., and Rick G.S. 2020. Mitochondrial Biogenesis as a Therapeutic Target for Traumatic and Neurodegenerative CNS Diseases. *Experimental Neurology*. 329 (3): 113309.
- Tang, Z., Yoshinori, T., He, H., Tatsuya, H., Chen, C., Liang, X, Chen, H., Young, M.M, and Hong G.W. 2019. TOM40 Targets Atg2 to Mitochondria-Associated ER Membranes for Phagophore Expansion. *Cell Reports*. 28 (7): 1744-1757.
- Taniguchi, K, and Michael, K. 2018. NF- κ B, Inflammation, Immunity and Cancer: Coming of Age. *Nature Reviews Immunology*. 18 (5): 309–24.
- Tilstra, J. S., Cheryl L.C., Laura J. N., and Paul D.R., 2011. NF- κ B in Aging and Disease. *Aging and Disease*. 2 (6): 449–65.
- Touitou, I., Aksentijevich, I. 2019. Genetic Approach to Diagnosis of Autoinflammatory Disease. *Textbook of Autoinflammation*.
- Valverde, D. P, Yu, S., Venkata, B., Nikit, K., Joshua, A. L., Thomas, W., Karin M.R., and Thomas, J.M. 2019. ATG2 Transports Lipids to Promote Autophagosome Biogenesis. *Journal of Cell Biology*. 1–12.
- Wang, Pei Yu, Nicola Neretti, Rachel Whitaker, Suzanne Hosier, Chengyi Chang, Daniel Lu, Blanka Rogina, and Stephen L. Helfand. 2009. Long-Lived Indy and Calorie Restriction Interact to Extend Life Span. *Proceedings of the National Academy of Sciences of the United States of America*. 106 (23): 9262–67.
- Wang, W., Zhao, F., Xiaopin, M., George, P., and Zhu, X. 2020. Mitochondria Dysfunction in the Pathogenesis of Alzheimer's Disease: Recent Advances. *Molecular Neurodegeneration*. 15 (1): 1–22.
- Willmes, Diana M., Anica Kurzbach, Christine Henke, Tina Schumann, Grit Zahn, Alexander Heifetz, Jens Jordan, Stephen L. Helfand, and Andreas L. Birkenfeld. 2018. "The Longevity Gene INDY (I'm Not Dead Yet) in Metabolic Control: Potential as Pharmacological Target." *Pharmacology and Therapeutics* 185 (October 2017): 1–11. <https://doi.org/10.1016/j.pharmthera.2017.10.003>.

- Xiao, X., Wei, J., Zhang, W, Jiao, B., Liao, X., Pan, C, Liu, X. 2019. TOMM40 Polymorphism Is Associated with Resting-State Functional MRI Results in Patients with Alzheimer's Disease. *NeuroReport*. 30 (16): 1068–73.
- Yin, H., Guo, Q., Li, X., Tang, T., Li, C., Wang, H., Sun, Y., Feng, Q., Ma, C., Gao, C., Yi, F., Peng, J., 2018. Curcumin Suppresses IL-1 β Secretion and Prevents Inflammation through Inhibition of the NLRP3 Inflammasome. *J. Immunol*. 200. 2835–2846.

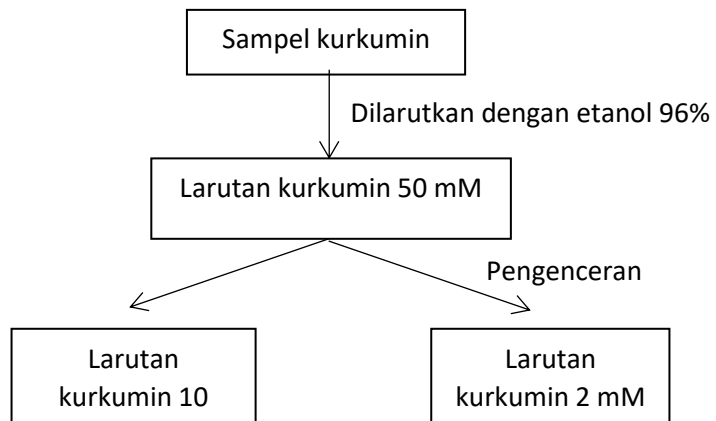
LAMPIRAN

Lampiran 1. Skema Kerja

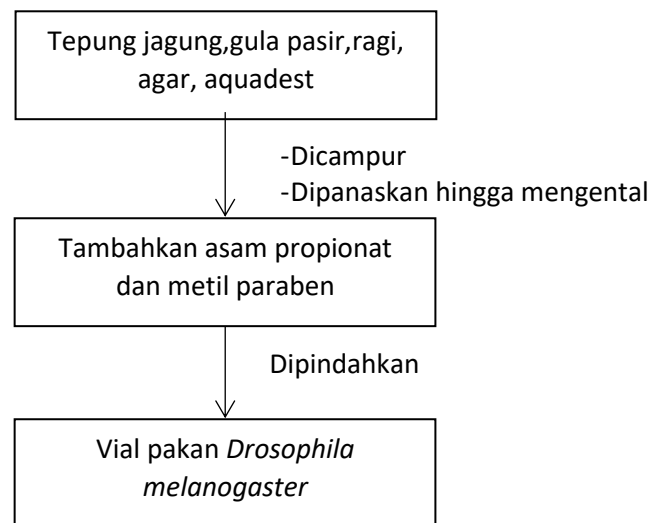
Lampiran 1.1 Penyiapan hewan uji



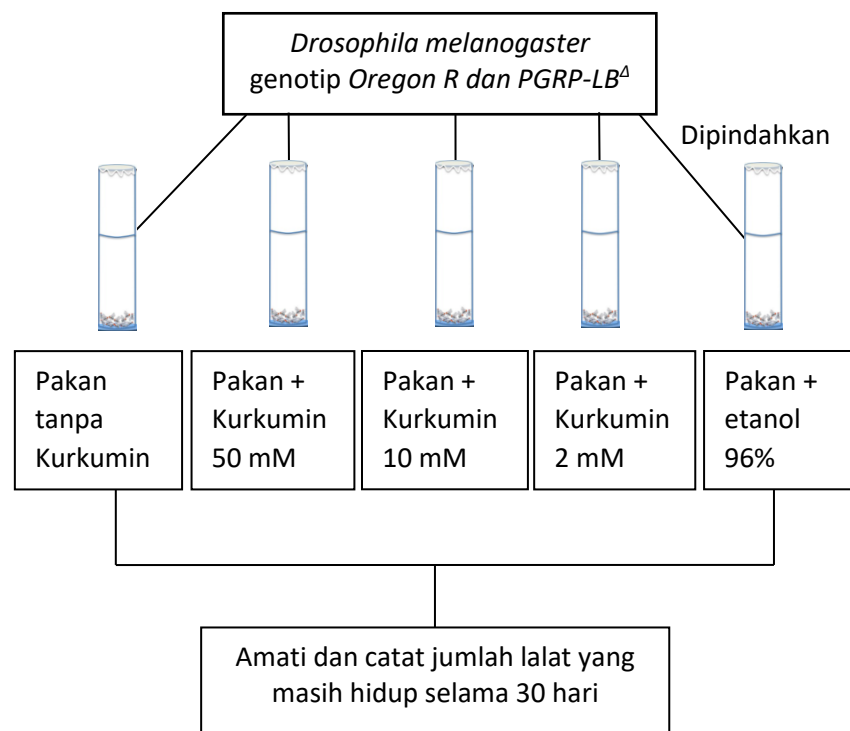
Lampiran 1.2 Penyiapan sampel



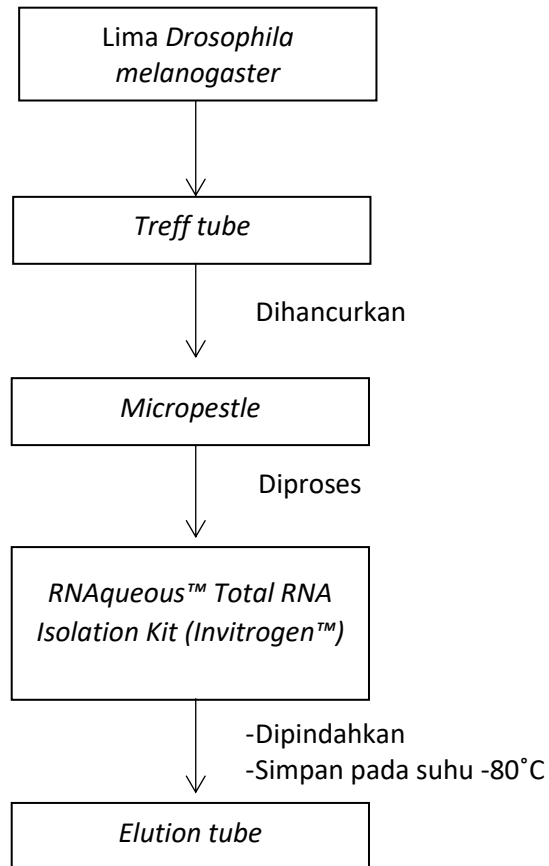
Lampiran 1.3 Penyiapan pakan



Lampiran 1.4 Uji survival



Lampiran 1.5 Penyiapan sampel RNA



Lampiran 1.6 Pengujian dengan PCR

