## Comparative Study of Umbilical Cord-derived Mesenchymal Stem Cells Secretome and Lysate Anti-Aging Activity Toward HaCaT cells



By Alnafisya Syamsu 19010009

I3L – Indonesia International Institute for Life Sciences

Department of Biomedicine

In partial fulfillment of the requirements for the degree of Biomedicine (Infectious Disease)

Jakarta, Indonesia 2023