## THE EVALUATION OF ANTI-AGING PROPERTIES OF SERUM PRODUCT ON PRIMARY HUMAN DERMAL FIBROBLAST CELL LINE THROUGH EXTRACELLULAR MATRIX EXPRESSION ANALYSIS



By

Nadya Marcelina Julianto 18010156

Submitted to

i3L – Indonesia International Institute for Life Sciences
Department of Biomedicine

In partial fulfillment of the requirements for the degree of

Biomedicine (Specialization in Tumor Biology)

Jakarta, Indonesia 2022