



UNIVERSITAS  
GADJAH MADA

**Critical role of Bruton's Tyrosine Kinase signaling in Neuroblastoma cancer stem cells: *in vitro* and *in silico* gene-target prediction**  
NARPATI WESA PIKATAN, Prof.dr. Sofia Mubarika Haryana, M.Med.Sc., PhD ; Prof.Dr.dr. Soetaryo, Sp.A(K); Prof. (

Universitas Gadjah Mada, 2020 | Diunduh dari <http://etd.repository.ugm.ac.id/>

**Critical role of Bruton's Tyrosine Kinase signaling in Neuroblastoma cancer stem cells: *in vitro* and *in silico* gene-target prediction**

Doctoral Degree Theses

Double Degree – Joint Supervision Program

Doctoral Program, Faculty of Medicine, Universitas Gadjah Mada, Indonesia

International Graduate Program in Medicine, Taipei Medical University, Taiwan



By

Narpati Wesa Pikatan

16/406816/SKU/00630 (Universitas Gadjah Mada)

D142105005 (Taipei Medical University)

To

DOCTORAL PROGRAM OF MEDICAL AND HEALTH SCIENCE

FACULTY OF MEDICINE

UNIVERSITAS GADJAH MADA

July 2019