



**UNIVERSITAS AIRLANGGA FACULTY OF DENTAL MEDICINE  
HEALTH RESEARCH ETHICAL CLEARANCE COMMISSION**

**ETHICAL CLEARANCE CERTIFICATE**

Number : 528/HRECC.FODM/XII/2020

Universitas Airlangga Faculty Of Dental Medicine Health Research Ethical Clearance Commission has studied the proposed research design carefully, Declared to be ethically appropriate in accordance to 7 (seven) WHO 2011, and therefore, shall herewith certify that the research entitled :

**"THE EFFECT OF SCAFFOLD HYDROXYAPATITE FROM  
RAJUNGAN SHELL (*PORTUNUS PELAGICUS*) GIVEN INTO CAVIA  
COBAYA DENTAL EXTRACTION SOCKET ON FIBROBLAST  
GROWTH FACTOR-2 (FGF-2) AND BONE  
MORPHOGENETIC PROTEINS-2 (BMP-2) EXPRESSION"**

Principal Researcher : GIGIH GEMIUDEAS, drg

Unit/Institution/Place of Research : - Laboratory Animal, Biochemistry  
Department, Faculty of Medicine  
Universitas Airlangga, Surabaya

**CERTIFIED TO BE ETHICALLY CLEARED**

Surabaya, December 7, 2020

Chairman,



Prof. Dr. IDA BAGUS NARMADA, drg., Sp.Ort(K)  
Official No. 195601071981031003