



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

**ETHICAL CLEARANCE CERTIFICATE**

Number : 299/HRECC.FODM/XII/2017

Universitas Airlangga Faculty Of Dental Medicine Health Research Ethical Clearance Commission has studied the proposed research design carefully, and therefore, shall herewith certify that the research entitled :

**“ANALISIS PAPAN SINAR-X DENTAL TERHADAP PENURUNAN  
JUMLAH SEL MAKROFAG DAN EKSPRESI TNF- $\alpha$  PADA  
PERIODONTITIS KRONIS”  
(Studi Pada Tikus Wistar)**

Principal Researcher : ALHIDAYATI ASYMAL, drg

Unit/Institution/Place of Research : - *Research Center* Fakultas Kedokteran  
Gigi Universitas Airlangga Surabaya

**CERTIFIED TO BE ETHICALLY CLEARED**



Surabaya, December 29<sup>th</sup>, 2017  
Chairman,

**Prof. M. Rubianto, Dr.,drg.,MS.,Sp.Perio(K)**  
Official No.195009081978021001