



## Association of HMOX-1 with sporadic Alzheimer's disease in southern Han Chinese

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### Abstract:

**Study objectives:** To discover the associations between HMOX-1 and Alzheimer's disease (AD).

**Methods:** 500 AD patients and 500 healthy controls were recruited in this study. AD was diagnosed by neurologist specialized in dementia base on NINCDS-ADRDA criteria. Blood samples from AD patients and healthy controls were used for DNA extraction and Polymer chain reaction (PCR). Student t test and Chi-square analysis was used for statistical analysis.

**Results:** The dominant model and the recessive model of HMOX-1 rs2071746 were shown statistically significant between AD patients and control after adjustment of age, gender and education (Dominant model: p value: 0.047, OR: 1.34, 95% CI: 1.00 – 1.78, adjusted; recessive model: p value: 0.049, OR: 1.34, 95% CI: 1.00 – 1.80, adjusted). There is also a trend of association between dominant model and LOAD after adjustment of age, gender and education (Dominant model: p value: 0.084, OR: 1.37, 95% CI: 0.96 – 1.95, adjusted).

**Conclusions:** We found the association of the dominant model and the recessive model of HMOX1 rs2071746 with AD. More large and multicentre studies are warranted.



### Biography:

Hongxiang Yu is under his M.D. training in the department of Neurology, East Hospital, Tongji University School of Medicine, Shanghai, China. He has published 6 papers in the field of neurodegenerative disease, such as Alzheimer's disease and Parkinson's disease.

### Publication of speakers

- Nutr Res Pract. 2014 Apr; 8(2): 220–226. Published online 2014 Mar 28. doi: 10.4162/nrp.2014.8.2.220
- PLoS One. 2012; 7(12): e51239. Published online 2012 Dec 10. doi: 10.1371/journal.pone.0051239
- Sensors (Basel) 2016 May; 16(5): 691. Published online 2016 May 13. doi: 10.3390/s16050691
- Biomed Res Int. 2014; 2014: 617202. Published online 2014 Jul 24. doi: 10.1155/2014/617202

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