LncRNA MALAT1 gene polymorphisms in coronary artery disease: a

case-control study in a Chinese population

Weina Hu¹, Hanxi Ding², An Ouyang ³, Xiaohong Zhang¹, Qian Xu², Yunan Han⁴,

Xueying Zhang¹, Yuanzhe Jin^{1,*}

¹The Department of Cardiology, the Fourth Affiliated Hospital of China Medical

University, Shenyang 110034, China

²The First Affiliated Hospital of China Medical University, and Key Laboratory of

Cancer Etiology and Prevention (China Medical University), Liaoning Provincial

Education Department, Shenyang 110001, China

³Department of Kinesiology and Health Promotion, University of Kentucky,

Lexington, KY, U.S

⁴Division of Public Health Sciences, Department of Surgery, Washington University

School of Medicine, St Louis, MO, 63110, U.S.

*Corresponding author:

Dr. Yuan-zhe Jin, MD/PhD, Professor

Vice-dean of the Fourth Affiliated Hospital of China Medical University

Director of the Department of Cardiology the Fourth Affiliated Hospital of China

Medical University

4#East Chongshan Road, Huanggu District, Shenyang, Liaoning, Province, China.

Zip code: 110032

Tel: +86-18900916111

fax: +86-24-62042989

E-mail address: yzjin@cmu.edu.cn

Supplementary Table 1 The baseline of the subjects

| Variables | CON vs.CAS | | |
|--------------------------|------------|----------------|-----------------|
| | CON(%) | CAD(%) | P values |
| | n=384 | n=365 | |
| Gender | | | P=0.546 |
| Male | 283(73.7) | 276(75.6) | |
| Female | 101(26.3) | 89(24.4) | |
| Age | | | P=0.986 |
| Mean±SD | 57.0±8.1 | 57.4 ± 8.8 | |
| Median | 28/Feb/00 | 28/Feb/00 | |
| Range | 35-79 | 29-81 | |
| Smoking | | | <i>P</i> <0.001 |
| Ever Smoker | 198(51.6) | 249(68.2) | |
| Never Smoker | 186(48.4) | 116(31.8) | |
| Drinking | | | <i>P</i> <0.001 |
| Drinker | 218(56.8) | 97(26.6) | |
| Nondrinker | 166(43.2) | 268(73.4) | |
| HBP | | | <i>P</i> <0.001 |
| Had | 115(29.9) | 209(57.4) | |
| No | 269(70.1) | 155(42.6) | |
| Diabetes | | | <i>P</i> <0.001 |
| Had | 48(12.5) | 96(26.3) | |
| No | 335(87.5) | 269(73.7) | |
| Cerebrovascular Disease | | | <i>P</i> <0.001 |
| Had | 17(4.4) | 50(13.7) | |
| No | 367(95.6) | 314(86.3) | |
| Hyperlipidemia | | | <i>P</i> <0.001 |
| Had | 60(15.6) | 196(53.7) | |
| No | 324(84.4) | 169(46.3) | |
| Blood Glucose | | | <i>P</i> <0.001 |
| High | 106(27.8) | 237(66.4) | |
| Normal | 270(70.9) | 117(32.8) | |
| Low | 5(1.3) | 3(0.8) | |
| Total Cholesterol | | | <i>P</i> <0.001 |
| High | 192(50.0) | 80(23.3) | |
| Normal | 192(50.0) | 263(76.7) | |
| Triglyceride | | | P=0.470 |
| High | 58(15.2) | 59(17.2) | |
| Normal | 323(84.8) | 284(82.8) | |
| High-density Lipoprotein | | | P<0.001 |
| High | 12(3.1) | 4(1.2) | |
| Normal | 320(84.0) | 164(47.8) | |
| Low | 49(12.9) | 175(51.0) | |

| Low-density Lipoprotein | | | P=0.021 |
|-------------------------|-----------|-----------|---------|
| High | 78(20.5) | 64(18.7) | |
| Normal | 295(77.4) | 258(75.2) | |
| Low | 8(2.1) | 21(6.1) | |

Note: CON:control; CAD:coronary artey disease. Smoking: smoking more than 1 cigarette per day and more than 6 months. Drinking: ethanol consumption in males (>140g/week), female (70g/week) and more than 1 year.