**Online Resource 1. SNPs examined for interaction on association between PIH and Percent Fibroglandular Volume (%FGV)**

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| **Gene** | **Gene name** | **SNP ID** | **Base change** | **Allele Frequency** | **Gene Functions** |
| *eNOS**(NOS3)* | Nitric oxidesynthase 3  | rs2070744***3-*** | T→C | 0.29, 0.71 | Anti-tumor activities/ Vascular tone |
| *ESR2* | Estrogen receptor 2 (ER beta) | rs928554***ESR2-*** | A→G | 0.64, 0.36 | Hormone Receptors/ Steroid Hormone Metabolism |
| *VEGF* | Vascular endothelial growth factor A | rs3025039***VEGF-*** | C→T | 0.87, 0.13 | Angiogenesis |
| *EDN1* | Endothelin 1 | rs5370***EDN*** | G→T | 0.82, 0.18 | Vasoconstriction |
| *IL-10* | Interleukin 10 | rs1800896***IL10-*** | G→A | 0.53, 0.47 | Immune Modulators/Cytokines |
| *HCFXI**(KLKB1)* | Human Coagulation Factor XI,kallikrein B, plasma (Fletcher factor) 1 | rs925453***HCFX-*** | C→T | 0.67, 0.33 | Inflammatory response |
| *IGFR1* | Insulin-like growth factor 1 receptor | rs2016347***IGFR1-*** | T→G | 0.55, 0.45 | Cell Growth and Development |