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| **Table S8. Top IPA associated canonical pathways for the stage 1 TPOAb-positivity and TPOAb level lead SNPs** | |
| **Canonical Pathways** | ***P*-value** |
| OX40 Signaling Pathway | 7.6 x 10-5 |
| Antigen Presentation Pathway | 5.9 x 10-4 |
| Autoimmune Thyroid Disease Signaling | 1.0 x 10-3 |
| Cytotoxic T Lymphocyte-mediated Apoptosis of Target Cells | 2.8 x 10-3 |
| Allograft Rejection Signaling | 2.9 x 10-3 |

Top Canonical Pathways for the 20 stage 1 lead SNPs using IPA (Ingenuity Pathway Analysis).