# **Supplementary file 1**. Mapping display name to relation name for Annotation Extensions in PHI-Canto.

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| **PHI-Canto display name** | **Annotation extension relation** |
| compared to control | compared\_to\_control |
| gene-for-gene interaction | gene\_for\_gene\_interaction |
| inverse gene-for-gene interaction | inverse gene\_for\_gene\_interaction |
| penetrance | has\_penetrance |
| extent of infectivity | infective\_ability |
| host tissue infected | infects\_tissue |
| outcome of interaction | interaction\_outcome |
| observed in organ | observed\_organ |
| affected proteins (add TWO i.e., both binding partners) | assayed\_using |
| assayed protein | assayed\_using |
| assayed RNA | assayed\_using |
| severity | has\_severity |
|  |  |