

## **Supplementary information**

## The effect of LRRK2 loss-of-function variants in humans

In the format provided by the authors and unedited

**Supplementary Figure 1:** Comparison of 30 blood serum and 4 urine biomarkers between *LRRK2* pLoF carriers (teal), G2019S risk allele carriers (blue) and carriers of neither (None; grey). The mean and standard deviation in each cohort are shown by black circles and lines respectively. For some biomarkers plots have been top truncated to remove outlines in the non-carrier cohort. Values for all pLoF and G2019S carriers are shown within each plot area. In each case, summary statistics are calculated on the full dataset.





