

Appendix A

Appendix

The following gives the list of causal genes associated with Parkinson's Disease given in GeneCard along with the potential biomarkers which were identified from our method.

Table A.1 List of genes associated with Parkinson’s Disease and the potential biomarkers along with their source of information

Causal genes	Source	Causal genes found from our method	Potential biomarkers	Source
MAPT	GeneCard	DRD2	ADCY2	[57, 85]
GBA	GeneCard	TH	CNR1	[8]
ATXN2	GeneCard	DDC	GNB5	[125]
TBP	GeneCard	SLC18A2	HTR2A	[69]
ADH1C	GeneCard	GCH1	GRIN2A, GRIN1	[42]
LRRK2	GeneCard	SLC6A3	STX1A	[115]
MT-ND1	GeneCard		SLC17A7, SLC17A6	[150]
VPS13C	GeneCard		SYT1	grantome.com/grant/NIH/K01-NS047548-01AI
GLUD2	GeneCard		FOS	[142]
PRKN	GeneCard		ATP1A3	[46]
VPS35	GeneCard			
PINK1	GeneCard			
ATXN8OS	GeneCard			
ATXN3	GeneCard			
SNCA	GeneCard			
DRD2	GeneCard			
PARK7	GeneCard			
SLC6A3	GeneCard			
TH	GeneCard			
MAOB	GeneCard			
SNCAIP	GeneCard			
COMT	GeneCard			
GDNF	GeneCard			
NDUFS4	GeneCard			
UCHL1	GeneCard			
SNCB	GeneCard			
DDC	GeneCard			
NR4A2	GeneCard			

Table A.2 List of genes associated with Parkinson’s Disease and the potential biomarkers along with their source of information

Causal genes	Source	Causal genes found from our method	Potential biomarkers	Source
RPS27A	GeneCard			
LRRK1	GeneCard			
SNCG	GeneCard			
SLC18A2	GeneCard			
ADORA2A	GeneCard			
PITX3	GeneCard			
GPR37	GeneCard			
FGF20	GeneCard			
UBE2E3	GeneCard			
DRD1	GeneCard			
DRD3	GeneCard			
GCH1	GeneCard			
BDNF	GeneCard			
RNF19A	GeneCard			
MAOA	GeneCard			
NRTN	GeneCard			
PACRG	GeneCard			
LMX1B	GeneCard			
SEPT4	GeneCard			
SIAH1	GeneCard			
SOD1	GeneCard			
CASP3	GeneCard			
STH	GeneCard			
CYP2D6	GeneCard			
HTT	GeneCard			
NNMT	GeneCard			