

PATHOLOGY

Wild-type LRRK2

Mutant LRRK2

Alpha-synuclein

Kinase/GTPase
signaling
molecule

Increased
kinase activity?
Altered GTPase
activity?

Hyper-
phosphorylated
 α -syn

Microtubules/
axonal transport

Impaired axonal
transport

Impaired transport
of vesicle-
associated α -syn

Autophagy

Impaired
autophagy

α -syn
accumulation and
aggregation

