

Supplementary Table S1. Lipid and lipoprotein levels in human PD body fluids and tissues, and their effects in animal/cellular models. (=) No differences between PD patients and controls; (≠) Discordant between multiple studies; (↑) Increased in PD patients compared to controls; (↓) Decreased in PD patients compared to controls; (+) Positive effect on PD animal/cellular models; (-) Negative effect on PD animal/cellular models; (DA) Effect on dopaminergic neurons; ^a Lipid rafts studies; ^b Cytosolic fraction studies; CSF, Cerebrospinal fluid.

	Intake	Plasma	CSF	Brain								Animal/ cellular models
				Brain	Anterior cingulate cortex	Cerebellum	Frontal cortex	Primary visual cortex	Putamen	Substantia nigra	Temporal cortex	
Fatty acyls												
SFA	=						↑ ^a				=	+ -
MUFA	≠										=	DA
PUFA					↑			=			=	+
<i>Omega-3</i>	↓											+
ALA	↓	↓										
EPA												+
DHA							↓ ^a ↑ ^b					+
<i>Omega-6</i>	≠											
LA	≠	↓					↓ ^b					↑ +
AA	≠	↓	↑				↓ ^a = ^b					↑ +
Eicosanoids												
<i>Prostaglandins</i>			=							↑		↑ + -
<i>Leukotriens</i>												-
<i>Epoxyeicosatrienoic acid</i>												+
<i>Isoprostanes</i>		≠	=		↑					=		
Carnitine		↓										+
Acylcarnitine		≠	=									+
Glycerolipids												
MAG												+**
Endocannabinoids												
<i>Anandamide</i>			↑									+
2-AG												↑ +
CB1R									↑			≠
CB2R									↓	↑		≠

