

Supporting Information

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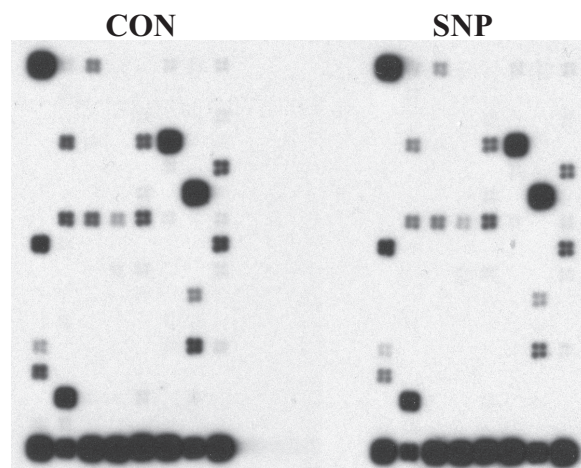


Fig. S1. Representative image of microarray OHS-031. (*Left*) Cerebral endothelial cells under normal conditions demonstrate baseline expression of many growth factors and receptors. (*Right*) Exposure to nonlethal levels of SNP broadly reduces expression levels of many growth factors and receptors systems.

Table S1. Nonlethal levels of SNP in cerebral endothelial cells reduces gene expression of many neurotrophins and neurotrophin receptors

Symbol	Ratio (SNP/CON)	Gene name
ARTN	0.48	Artemin
BDNF	0.62	Brain-derived neurotrophic factor
CNTF	N/A*	Ciliary neurotrophic factor
FGF2	0.36	Fibroblast growth factor 2 (basic)
FGF9	N/A	Fibroblast growth factor 9 (glia-activating factor)
FUS	0.93	Fusion (involved in t(12;16) in malignant liposarcoma)
GDNF	N/A	Glia cell derived neurotrophic factor
GMF β	0.63	Glia maturation factor, beta
NF1	N/A	Neurofibromin 1
NRG1	0.60	Neuregulin 1
NGF β	0.52	Nerve growth factor, beta polypeptide
NTF3	N/A	Neurotrophin 3
NTF5	0.46	Neurotrophin 5
CNTFR	N/A	Ciliary neurotrophic factor receptor
FGFR1	0.41	Fibroblast growth factor receptor 1
NGFR	0.62	Nerve growth factor receptor
TrkA	N/A	Neurotrophic tyrosine kinase receptor, type 1
TrkB	N/A	Neurotrophic tyrosine kinase receptor, type 2
TrkC	N/A	Neurotrophic tyrosine kinase receptor, type 3

*N/A, nonavailable for the genes with undetectable signal(s) in our system.

