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Rerouting 'coenzyme A' biosynthesis

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Rerouting 'Coenzyme A' Biosynthesis

Balaji Srinivasan

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Ьу

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ABBREVIATIONS

ACP Acid phosphatase

ADP Adenosine diphosphate
ATP Adenosine triphosphate

CaMKII Calcium/calmodulin-dependent protein kinase II

CoA Coenzyme A COASY CoA synthase

CoPAN CoA synthase associated neurodegeneration

C.elegans
CNS
Central nervous system
DNA
Deoxyribonucleic acid
DPCK
Dephospho-CoA kinase

EDTA Ethylenediaminetetraacetic acid
ENPP Ectonucleotide pyrophosphatase

E.coli Escherichia coli

Fbl Fumble

GAPDH Glyceraldehyde 3-phosphate dehydrogenase

HAT Histone acetyltransferase
HDAC Histone deacetylases

HoPan Hopantenate

HPLC High performance liquid chromatography

NaF Sodium fluoride

NBIA Neurodegeneration with brain iron accumulation

NUDT Nudix hydrolase

PAMPA Parallel artificial membrane permeability assay

PANK Pantothenate kinase

PKAN Pantothenate kinase-associated neurodegeneration

PPanSH Phosphopantetheine

PPARα Peroxisome proliferator-activated receptor alpha

PPAT Phosphopantetheine adenylyltransferase
PPCDC Phosphopantothenoylcysteine decarboxylase
PPCS Phosphopantothenoylcysteine synthetase

PTM Post translational modification ROS Reactive oxygen species

SMVT Sodium-dependent multivitamin transporter

TBTP Thiobutyltriphenylphosphonium

TCA Tricarboxylic acid
TSA Trichostatin A

Vit-B5 Vitamin B5 (Pantothenate)

VNN Vanin