

## Supplementary data

**Table S1. O-GlcNAcylated proteins exclusively identified in the A $\beta$ <sub>1-42</sub> oligomers-stimulated microglia.**

UniProt KB Reference	Identified Protein	Gene
<b>Q13885;Q9BVA1</b>	Tubulin beta-2A chain; Tubulin beta-2B chain	TBB2A; TBB2B
<b>Q16576; Q16576-2</b>	Histone-binding protein RBBP7	RBBP7
<b>Q8IW75</b>	Serpin A12	SERPINA12
<b>P14618; P14618-3; P14618-2</b>	Pyruvate kinase PKM	PKM
<b>P14625</b>	Endoplasmic	HSP90B1
<b>P60842-2; P60842; Q14240; Q14240-2</b>	Eukaryotic initiation factor 4A-I	EIF4A1
<b>Q12907</b>	Vesicular integral-membrane protein VIP36	LMAN2
<b>O15118;O15118-2</b>	Niemann-Pick C1 protein	NPC1
<b>P09382</b>	Galectin-1	LGALS1
<b>P17050</b>	Alpha-N-acetylgalactosaminidase	NAGA
<b>P43121; P43121-2</b>	Cell surface glycoprotein MUC18	MCAM
<b>P52272-2; P52272</b>	Heterogeneous nuclear ribonucleoprotein M	HNRNPM
<b>P60174-1; P60174; P60174-4</b>	Triosephosphate isomerase	TPI1
<b>Q13867</b>	Bleomycin hydrolase	BLMH
<b>Q6EMK4</b>	Vasorin	VASN
<b>Q6P4E1-2; Q6P4E1-5; Q6P4E1; Q6P4E1-4; Q6P4E1-3</b>	Protein CASC4	CASC4
<b>Q6ZRP7</b>	Sulfhydryl oxidase 2	QSOX2
<b>Q71U36-2; Q71U36; P0DPH8; P0DPH7; Q6PEY2; P0DPH7-2</b>	Tubulin alpha-1A chain;Tubulin alpha-3E chain	TUBA1A;TUBA3E
<b>Q96KR1</b>	Zinc finger RNA-binding protein	ZFR
<b>Q9H0E3; Q9H0E3-3; Q9H0E3-2</b>	Histone deacetylase complex subunit SAP130	SAP130
<b>O43813</b>	LanC-like protein 1	LANCL1
<b>P30041</b>	Peroxiredoxin-6	PRDX6

<b>P10909-3; P10909-4; P10909; P10909-5; P10909-2</b>	Clusterin; Clusterin beta chain; Clusterin alpha chain	CLU
<b>P15289-2; P15289</b>	Arylsulfatase A; Arylsulfatase A component B; Arylsulfatase A component C	ARSA
<b>Q5TFQ8; P78324-4; P78324; P78324-2</b>	Signal-regulatory protein beta-1 isoform 3; Tyrosine-protein phosphatase non-receptor type substrate 1	SIRPB1;SIRPA
<b>Q92484-2; Q92484</b>	Acid sphingomyelinase-like phosphodiesterase 3a	SMPDL3A
<b>Q92796</b>	Disks large homolog 3	DLG3
<b>Q96JA1-2; Q96JA1</b>	Leucine-rich repeats and immunoglobulin-like domains protein 1	LRIG1
<b>P30101</b>	Protein disulfide-isomerase A3	PDIA3
<b>P61224-2; P61224-4; P61224-3; P62834; P61224</b>	Ras-related protein Rap-1b; Ras-related protein Rap-1A	RAP1B;RAP1A
<b>P62249</b>	40S ribosomal protein S16	RPS16
<b>Q14697; Q14697-2</b>	Neutral alpha-glucosidase AB	GANAB
<b>P05141; P12235; Q9H0C2</b>	ADP/ATP translocase 2; ADP/ATP translocase 2, N-terminally processed; ADP/ATP translocase 1	SLC25A5; SLC25A4
<b>P42892-3; P42892-2; P42892-4; P42892</b>	Endothelin-converting enzyme 1	ECE1
<b>P51116; P51114-3; P51114-2; P51114; Q06787-8; Q06787-6; Q06787-2; Q06787-4; Q06787-5; Q06787-9; Q06787-7; Q06787-3; Q06787</b>	Fragile X mental retardation syndrome-related protein 2; Fragile X mental retardation syndrome-related protein 1	FXR2; FXR1
<b>P67809; P16989-2; P16989-3; Q9Y2T7; P16989</b>	Nuclease-sensitive element-binding protein 1	YBX1
<b>Q99623-2; Q99623</b>	Prohibitin-2	PHB2
<b>Q9Y2E5-2; Q9Y2E5</b>	Epididymis-specific alpha-mannosidase	MAN2B2
<b>P18124</b>	60S ribosomal protein L7	RPL7

<b>P48643-2; P48643</b>	T-complex protein 1 subunit epsilon	TCPE
<b>Q15365; P57721-2; P57721-3; P57721-5; P57721-4; P57721</b>	Poly(rC)-binding protein 1; Poly(rC)-binding protein 3	PCBP1; PCBP3
<b>P33402; P33402-3; P33402-2</b>	Guanylate cyclase soluble subunit alpha-2	GUCY1A2
<b>Q04118</b>	Basic salivary proline-rich protein 3	PRB3
<b>Q9H6L2-2</b>	Transmembrane protein 231	TMEM231
<b>Q9ULF5</b>	Zinc transporter ZIP10	SLC39A10