

제 9회 특별한 뇌과학 제4강 용어정리

박문호의 자연과학 세상( 2017. 10.17)

약어/용어	용어풀이	한글 용어 및 작용설명
ABAD	Amyloid- $\beta$ (A $\beta$ ) peptide-binding alcohol dehydrogenase	
AD	Alzheimer's disease	
AICD	Amyloid precursor protein intracellular domain	
AKT	[=protein kinase B(PKB)] serine/threonine-specific protein kinase	작용: glucose metabolism, apoptosis, cell proliferation, transcription and cell migration
ALS	Amyotrophic lateral sclerosis, Lou Gehrig's disease	근위축성 측색(측삭) 경화증
anabolic		동화작용(의)
Apaf1	apoptotic protease activating factor 1	
ApoE	Apolipoprotein E	
apoptosis		세포자멸사
APP	Amyloid precursor protein	아밀로이드 전구체 단백질
ATF6	Activating transcription factor 6	
ATP	adenosine triphosphate	
A $\beta$	Amyloid $\beta$	
A $\beta$ aggregation	Amyloid $\beta$ aggregation	응집
A $\beta$ 40	Amyloid $\beta$ 40	
A $\beta$ 42	Amyloid $\beta$ 42	
Bad	BCL-2 associated death promoter	
Bcl-2 family	B-cell lymphoma 2 family	작용: cell death에 관여
Bid	BH3 interacting domain death agonist	
C83	c-terminal 83	
C99	c-terminal 99	
Calpain	calcium-dependent, non-lysosomal cysteine proteases 패밀리 중의 하나인 단백질	

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CaM	Ca(2+)-calmodulin-dependent protein	
CASP3	cysteine-aspartic acid protease (caspase) 3	
CASP7	cysteine-aspartic acid protease (caspase) 7	
CASP8	cysteine-aspartic acid protease (caspase) 8	
CASP9	cysteine-aspartic acid protease (caspase) 9	
CASP12	cysteine-aspartic acid protease (caspase) 12	
caspase	cysteine-aspartic acid protease	프로그래밍된 세포 죽음과 염증반응에 관여, 생명에도 필수(청소작업)
catabolic		이화작용(의)
CytC	cytochrome C	
cytokine		시토킨, 종양효과를 발휘하는 활성액성인자
D	aspartic acid	
DAB1	disabled-1 gene	
DNA damage	Deoxyribonucleic acid damage	
E3	ApoE의 한 종류 / E-2, E-3, E-4가 있으며 위키피디아에서는 E대신 ε으로 표기함	
E4	ApoE의 한 종류 / E-2, E-3, E-4가 있으며 위키피디아에서는 E대신 ε으로 표기함	
EGFR	Epidermal growth factor receptor	
ER stress	endoplasmic reticulum stress	
ERK	extracellular signal-regulated kinases =MAPK (mitogen-activated protein kinases)	
FADD	Fas-associated protein with death domain	
Fas	TNFRSF6/TNFR(tumor necrosis factor receptor)SF6(superfamily 6)	지방산 신타아제
Fe65	a family of multidomain adaptor protein	
GPCR	G protein coupled receptor	

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Gq	G protein q	
GS K -3β	glycogen synthase kinase 3β	
HD	Huntington's disease	
IDE	insulin degrading enzyme	
IL-1	Interleukin 1	
IP3	inositol triphosphate	
IP3R	inositol triphosphate receptor	
IRE1	inositol requiring enzyme 1	
Jip	JNK interacting protein	
JNK	c-Jun N-terminal kinase	
KCN	potassium cyanide	
KCN	potassium cyanide	
KL	아미노산 lysine(K), leucine(L)	
KPI OX-2	Kunitz- type-protease-inhibitor orexin receptor type 2	
LDL	low density lipoprotein	
LPL	lipoprotein lipase	
LRP	LDL receptor related protein	
LRP1	LDL receptor related protein 1	
mHtt	mutant Huntington protein	
microglia		미세아교세포, 소교세포
monomer		단량체
NAC	non Amyloid β component	
NEP	nuclear export protein	
neural injure		신경세포 손상

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약어/용어	용어풀이	한글 용어 및 작용설명
neuron pruning		신경세포 가지치기
neuron toxicity		신경세포 독성
NFT	neurofibrillary tangle	
NF-κB	nuclear factor kappa-light-chain-enhancer of activated B cells	
NMDAR	N-methyl-D-aspartate receptor	
NO	nitric oxide	
NORMAL DEV	normal development	
NOS	nitric oxide synthase	
NOX	nitric oxide metabolics	
oligomer Aβ		저중합체 아밀로이드 베타
ONOO-	peroxynitrite =peroxonitrite	
P25	protein 25k(25,000 dalton)	
P3	protein 3k(3,000 dalton)	
P35	protein 35k(35,000 dalton)	
P75NRT	p75 neurotrophin receptor(=NGFR:nerve growth factor receptor)	
PD	Parkinson's Disease	
PERK	protein kinase R (PKR)-like endoplasmic reticulum kinase	
PHF	paired helical filaments	
PKG	protein kinase G = cGMP-dependent protein kinase	
PLC	phospholipase C	
PP2A	(=PP2)/ protein phosphatase 2 A	
PP2B	Serine/threonine-protein phosphatase 2B (PP2B)	
protease		단백질분해효소

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Prx	periaxin	
PSEN	Gamma secretase는 PSEN1 (presenilin-1), nicastrin, APH-1(anterior pharynx - defective 1), PEN-2 (presenilin enhancer 2)의 4 가지 단백질로 구성	
ROS	reactive oxygen species	
RyR	ryanodine receptor	
SAPPα	soluble amyloid precursor protein alpha	
SAPPβ	soluble amyloid precursor protein beta	
senile plaque		노인성반점
SERCA	sarco/endoplasmic reticulum Ca <sup>2+</sup> -ATPase	
SHCA	Src Homology and Collagen A: an adaptor protein that binds to tyrosine kinase receptors	
TAU	TAU protein/T protein	
TDP-43	TAR DNA-binding protein 43, transactive response DNA binding protein 43 kDa	전사억제 단백질
Tip60	Tat interactive protein 60kDa(60k dalton)	작용: Histone acetyl transferase /DNA 수리, 세포자멸사에 관여
TNF	tumor necrosis factor	
TNFR	tumor necrosis factor receptor	
VDCC	voltage dependent calcium channel	
VIA	아미노산 Valine(V), Isoleucine(I), Alanine(A)	
X11	x chromosome no. 11	
α-synuclein	alpha synuclein	
β-SEC	β secretase	
γ40	γ secretase 40	
γ42	γ secretase 42	