

# A Abbreviations

<b>5-HT</b>	serotonin
<b>AC</b>	Adenyl cyclase
<b>AF</b>	Activation factor
<b>AL</b>	Antennal lobe
<b>ANOVA</b>	Analysis of variance
<b>Ap</b>	<i>Aplysia</i>
<b>apCAM</b>	<i>Aplysia</i> cell adhesion molecule
<b>ATP</b>	3'5' adenosinethreosphat
<b>BSA</b>	Bovine serum albumun
<b>CaMK</b>	Ca <sup>2+</sup> -calmodulin-dependent protein kinase
<b>cAMP</b>	Cyclic 3'5'-adenosinmonosphat
<b>CB</b>	Central brain
<b>cGMP</b>	Cyclic 3'5'-guanisinmonosphat
<b>CRE</b>	cAMP response element
<b>CREB</b>	cAMP-responce-element binding protein
<b>CS</b>	Conditioned stimulus
<b>EBP</b>	Enhancer binding protein
<b>EDTA</b>	Ethylene-diamin-tetra-acetic acid
<b>EF</b>	Elongation factor

---

<b>EGTA</b>	Ethyleneglycol-bis- $\beta$ -amino-ethyl-ether-N,N,N,N-tetra-acetic acid
<b>ELISA</b>	Enzym-linked immuno-sorbent assay
<b>eLTM</b>	Early long-term memory
<b>eLTP</b>	Early long-term potentiation
<b>ERK</b>	Extracellular signal-regulated kinase
<b>HFS</b>	High frequency stimulation
<b>G-protein</b>	GTP binding protein
<b>GEF</b>	Guanine nucleotide exchange factors
<b>GFR</b>	Growth factor receptor tyrosine kinase
<b>Grb2</b>	Growth-factor-receptor-bound protein 2
<b>GST</b>	Glutathione S-transferase
<b>GTP</b>	Guanosinthrephospat
<b>IgG</b>	Immunoglobulin
<b>JNK</b>	c-Jun N-terminal kinase
<b>LBA</b>	Lateral and basal nuclei of the amygdala
<b>LTF</b>	Long-term facilitation
<b>LTM</b>	Long-term memory
<b>ILTM</b>	Late long-term memory
<b>LTP</b>	Long-term potentiation
<b>MN</b>	Motor neuron
<b>NMDA</b>	N-methyl-D-aspartat
<b>NO</b>	Nitrogen oxide
<b>NOS</b>	Nitrogen oxide synthase
<b>MAPK</b>	Mitogen-activated protein kinase

## A Abbreviations

---

<b>MB</b>	Mushroom body
<b>MBP</b>	Myelin basic protein
<b>MEK</b>	Mitogen-extracellular kinase, MAPK kinase
<b>MTM</b>	Mid-term memory
<b>NO</b>	Natrigen monooxyd
<b>OA</b>	Octopamine
<b>OL</b>	Optical lobe
<b>P</b>	Monophosphat
<b>p90Rsk-1</b>	p90-ribosomal-s-kinase-1
<b>PBS</b>	Phosphate-buffered saline
<b>PER</b>	Proboscis extension reflex
<b>Phospho-MAPK</b>	Phosphorylated MAPK
<b>PKA</b>	Protein kinase A (cAMP-activated/dependent protein kinase)
<b>PKC</b>	Protein kinase C (Ca <sup>2+</sup> /phospholipid-dependent protein kinase)
<b>PKG</b>	Protein kinase G (cGMP-dependent protein kinase)
<b>PKM</b>	Protein kinase M
<b>PLA2</b>	Phospholipase A2
<b>PS</b>	Population spike
<b>RNA</b>	Ribonucleic acid
<b>RT</b>	Room temperature
<b>SAPK</b>	Stress activated protein kinase
<b>SDS</b>	Sodium dodecyl sulfate
<b>SN</b>	Sensory neuron
<b>Sos</b>	Son of sevenless

---

<b>STF</b>	Short-term facilitation
<b>STM</b>	Short-term memory
<b>STP</b>	Short-term potentiation
<b>TFS</b>	$\Theta$ frequency stimulation
<b>US</b>	Unconditioned stimulus

**In the protein sequence:**

<b>A</b>	Alanine
<b>D</b>	Aspartate
<b>E</b>	Glutamate
<b>F</b>	Phenylalanine
<b>G</b>	Glycine
<b>H</b>	Histidine
<b>I</b>	Isoleucine
<b>L</b>	Leucine
<b>M</b>	Methionine
<b>P</b>	Proline
<b>R</b>	Arginine
<b>V</b>	Valine
<b>T</b>	Threonine
<b>W</b>	Tryptophan
<b>Y</b>	Tyrosine