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ABBREVIATIONS

A	= amplitude
4-AP	= 4-aminopyridine
AED	= anti-epileptic drug
BAPTA	= 1,2-bis-(2-aminophenoxy)ethane-N,N,N',N'-tetraacetic acid
CA	= cornu ammonis, Ammon's horn
CA1(DG)-C	= CA1(DG) neurons from control rats
CA1(DG)-SE	= CA1(DG) neurons from electrically-induced post-SE rats
$[Ca^{2+}]_i$	= intracellular calcium concentration
CBZ	= carbamazepine
CNS	= central nervous system
DG	= dentate gyrus
DIDS	= 4,4'-diisothiocyanatostilbene-2,2'- disulfonic acid disodium salt
E	= reversal potential
EC	= entorhinal cortex
EC_{50}	= concentration of half-maximal effect
EEG	= electroencephalogram
EGTA	= ethylene glycol-bis(2-aminoethyl-ether)-*N,N,N',N'*-tetraacetic acid
ER	= endoplasmic reticulum
F	= Faraday constant
F	= fluorescence
GABA	= γ-aminobutyric acid
gcl	= granule cell layer
g	= conductance
GEFS+	= generalized epilepsy with febrile seizures plus
g_{max}	= maximal conductance
HEPES	= N-(2-hydroxyethyl)piperazine-N'-(2-ethanesulfanic acid)
HS	= hippocampal sclerosis
HVA	= high-voltage activated
I	= current
$I_{K,Ca}$	= calcium-activated potassium current
iml	= inner molecular layer
I_{NaP}	= persistent sodium current
KA	= kainate
K_D	= dissociation or binding constant, affinity
LTD	= long-term depression
LTG	= lamotrigine, i.e. 3,5-diamino-6-(2,3-dichlorophenyl)-1,2,4-triazine
LTP	= long-term potentiation
LVA	= low-voltage activated

mf	= mossy fiber
mml	= medial molecular layer
ml	= molecular layer
MRI	= magnetic resonance imaging
n	= number of observations
n	= Hill coefficient
NC	= neocortex
NCKX	= potassium-dependent sodium-calcium exchange(r)
NCX	= sodium-calcium exchange(r)
NeuN	= neuron-specific nuclear protein
NMDA	= N-methyl-D-aspartate
NMDA-R	= NMDA receptor
NMDG	= N-methyl-D-glucamine
oml	= outer molecular layer
P_0	= maximal permeability
ParaS	= parasubiculum
PB	= phosphate buffer
PBS	= phosphate-buffered saline
PreS	= presubiculum
PDS	= paroxysmal depolarizing shift
PHT	= phenytoin
PIPES	= piperazine-*N,N'*-bis(2-ethanesulfanic acid) disodium salt
PMCA	= plasma membrane Ca^{2+} ATPase
R	= ratio, or gas constant
S	= subiculum
SE	= status epilepticus
S.E.M.	= standard error of the mean
sl	= stratum lucidum
slm	= stratum lacunosum moleculare
so	= stratum oriens
sp	= stratum pyramidale
sr	= stratum radiatum
T	= absolute temperature
τ_a	= time constant of activation
τ_i	= time constant of inactivation
τ_{rec}	= time constant of recovery from inactivation
TEA	= tetraethylammonium
(m)TLE	= (mesial) temporal lobe epilepsy
TTX	= tetrodotoxin
$V_{(m)}$	= membrane potential
V_c	= slope parameter

VDCC	= voltage-dependent calcium current
VDSC	= voltage-dependent sodium current
V_h	= potential of half-maximal (in)activation
VPA	= valproate