

LIST OF ABBREVIATIONS

SYMBOLS

1T	one-tissue compartmental model
1TC	one-tissue compartmental model
2D	two-dimensional
2T	two-tissue compartmental model
2TC	two-tissue compartmental model
3D	three-dimensional

A

AC-PC	anterior commissure -posterior commissure
ACTH	adrenocorticotrophic hormone
AUC	area under the curve
AUC _G	area under the curve, with respect to ground
AUC _I	area under the curve, with respect to increase

B

B _{avail}	maximum concentration of available receptor sites
BBB	blood-brain barrier
BDI	Beck depression inventory
BFM	basis function method
B _{max}	maximum concentration of receptor sites or receptor density
BOLD	blood-oxygen-level-dependent
BP _{ND}	binding potential nondisplaceable
Bq	Becquerel

C

C	carbon
CAR	cortisol awakening response
CGI	clinical global impression scale
CRH	corticotropin releasing hormone

D

D2	dopamine 2 (receptor)
DA	dopamine
DEX-CRH	dexamethasone-corticotropin releasing hormone test
d.f.	degrees of freedom
DLPFC	dorsolateral prefrontal cortex
DSM-IV	Diagnostic and Statistical Manual of Mental Disorders
DVR	distribution volume ratio

E

ECT	electroconvulsive therapy
EPI	echo planar images

F

FBP	filtered back projection
FDG	fluoro-2-deoxy- <i>D</i> -glucose
fMRI	functional MRI
FMZ	flumazenil
FORE	Fourier rebinning
FRTM	full reference tissue model
FWHM	full width at half maximum

G

GABA	gamma-aminobutyric acid
GAD	glutamic acid decarboxylase
GBq	gigabecquerel
GMWM	total (grey plus white) matter
GR	glucocorticoid receptors

H

HAM-A	Hamilton anxiety rating scale
HC	healthy controls
HPA	hypothalamic-pituitary-adrenal axis
HPLC	high-performance liquid chromatography

I

IDIF image derived input function

K

K_1 rate constant for transfer or delivery of tracer
 K_{2-4} rate constant for transfer between compartments
 K_d dissociation constant for a receptor
 K_E number of voxels in a cluster
keV kilo electron volt
kBq kilobecquerel

M

MADRS Montgomery Åsberg depression rating scale
MBq megabecquerel
MDD major depressive disorder
MNI Montreal Neurological Institute
MnInc mean increase
MR mineralocorticoid receptors
MRI magnetic resonance imaging
MRS magnetic resonance spectroscopy
MRTM multilinear reference tissue method

N

NLR nonlinear regression

O

OSEM ordered-subset expectation maximization

P

PET positron emission tomography
p.i. post injection
P-gp P-glycoprotein
PHG parahippocampal gyrus
PVE partial volume effect
PVN paraventricular nucleus

R

r	Pearson's correlation coefficient
R^2	squared Pearson's correlation coefficient
R_1	relative delivery
RLogan	Logan plot analysis with reference tissue
ROI	region of interest
RPM	receptor parametric mapping
RT	response time

S

SCN	suprachiasmatic nucleus
SCID	structured clinical interview for DSM-IV axis I disorders
SD	standard deviation
SPECT	single photon emission computed tomography
SPM	statistical parametric mapping
SPSS	statistical package for the social sciences
SRTM	simplified reference tissue model
STAI	Spielberger state trait anxiety inventory
SUV(r)	standardized uptake value (ratio to reference region)
SWS	slow wave sleep

T

T	Tesla
TAC	time-activity curve
TE	echo time
THC	tetrahydrocannabinol
THDOC	tetrahydrodeoxycorticosterone
TR	repetition time
TSD	total sleep deprivation

V

VAS	visual analogue scale
VBM	voxel based morphometry
VINCI	volume imaging in neurological research coregistration and ROIs included
VOI	volume of interest
V_T	volume of distribution

LIST OF PUBLICATIONS

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