



Radiolabeling of Some Dopamine Receptor Ligands as Models for Brain Imaging

Thesis Presented by

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DEDICATED TO

MY LOVELY FAMILY

MY HUSBAND MAKRAM

AND MY SON MARK

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LIST OF
ABBREVIATIONS

List of Abbreviations

ANOVA	Analysis of variance
C	Carbon element
CAT	Chloramine-T (N-chloro-p-toluene sulfonamide sodium salt)
CPM	Count per minute
CT	Computed tomography
ECD	Ethyl cysteinat dimer
ET	Emission tomography
HMPAO	Hexamethyl propylene amine oxime
I	Iodine
I.D.	Injected dose
I.V.	Intravenously
IMP	Isopropyl iodoamphetamine
KeV	Kilo electron volt
MAG₃	Mercapto-acetyl glycyl glycyl glycine
M.Wt	Molecular weight
MBq	Mega Becquerel
Mo	Molybdenum element
MRI	Magnetic resonance imaging
N₂	Nitrogen gas
Na	Sodium element
Na^{99m}TcO₄	Sodium pertechnetate
NaBH₄	Sodium borohydride
NaCl	Sodium chloride salt
P	Level of significance
p.i.	Post injection
PC	Paper chromatography

PET	Positron emission tomography
pH	Power of hydrogen
R_f	Retension factor
RH-^{99m}Tc	Reduced-hydrolyzed Technetium-99m (colloid)
S.D	Standard deviation
Sn	Stannous element
SPECT	Single photon emission computed tomography
T/NT	Target/Non-Target
<i>t</i>_{1/2}	Half life
Tc	Technetium
<i>t</i>_e	Effective half-life
<i>t</i>_p	Physical half-life
UV	Ultra violet
	Alpha particles
	Beta particles
	Gamma emission



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