

NON-MOTORIC FUNCTIONS OF THE CEREBELLUM

ESSAY

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

يُؤْتِي الْحِكْمَةَ مَنْ يَشَاءُ وَمَنْ يُؤْتَ
الْحِكْمَةَ فَقَدْ أُوتِيَ خَيْرًا كَثِيرًا
وَمَا يَذَّكَّرُ إِلَّا أُولُو الْأَلْبَابِ

صدق الله العظيم

سورة البقرة - آية ٢٦٩

Dedicated To

My Beloved Parents

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LIST OF ABBREVIATIONS

C8	Eighth cervical segment
CCT	Cuneocerebellar tract
CNS	Central nervous system
CT	Computerized tomography
DSCT	Dorsal spinocerebellar tract
EPSP	Excitatory postsynaptic potentials
F.A.	Friedreich's ataxia
GABA	Gamma amino butyric acid
HMPAO	Hexa-methyl-propyle-amine oxime
HVA	Homovanillic acid
IPSPs	Inhibitory post synaptic potentials
IQ	Intelligence quotient
KA	Kainate
L2	Second lumbar segment
MRI	Magnetic resonance imaging
NMDA	N-methyl-D-aspartate
OPCA	Olivoponto cerebellar atrophy
PET	Positron emission tomography
QA	Quisqualate
rCBF	Regional cerebral blood flow
SPECT	Single photon emission tomography
SSR	Sympathetic skin response
Th1	First thoracic segment
VSCT	Ventral spinocerebellar tract

Introduction and Aim of the work

It is common sense to take a method and try it: if it fails, admit it frankly and try another. But above all, try something.

Franklin D. Roosevelt

