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"Assessment of the diagnostic value of the expression level of serum miR-145, miR-223 and miR-326 in multiple sclerosis"

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كلية العلوم
قسم الكيمياء الحيوية

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تقدير القيمة التشخيصية لمستوي التعبير الجيني للميكرو رنا 145 و 223
و 326 في مصل الدم في مرض التصلب المتعدد

اسم الطالب: وسام السعيد محمد شرف الدين

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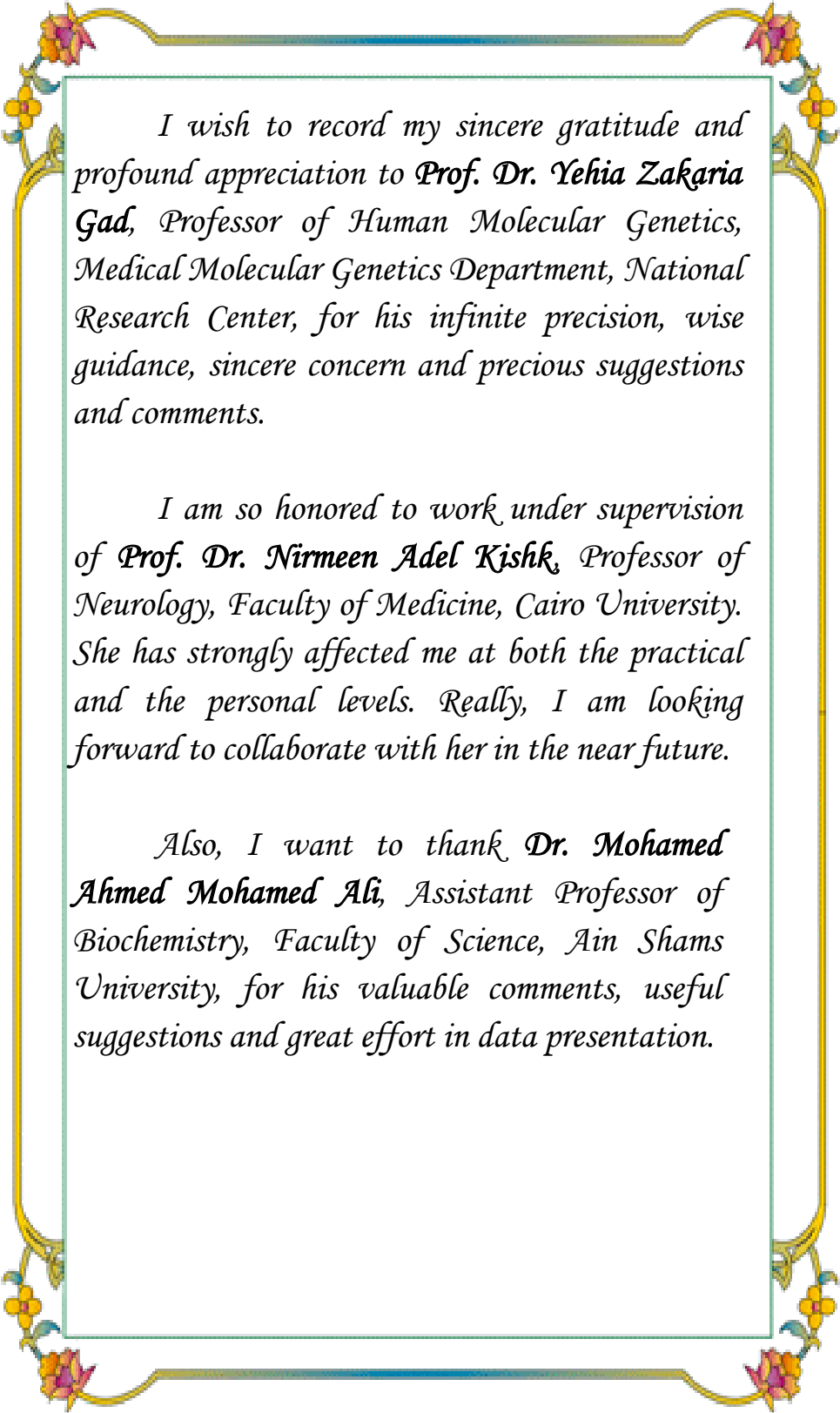
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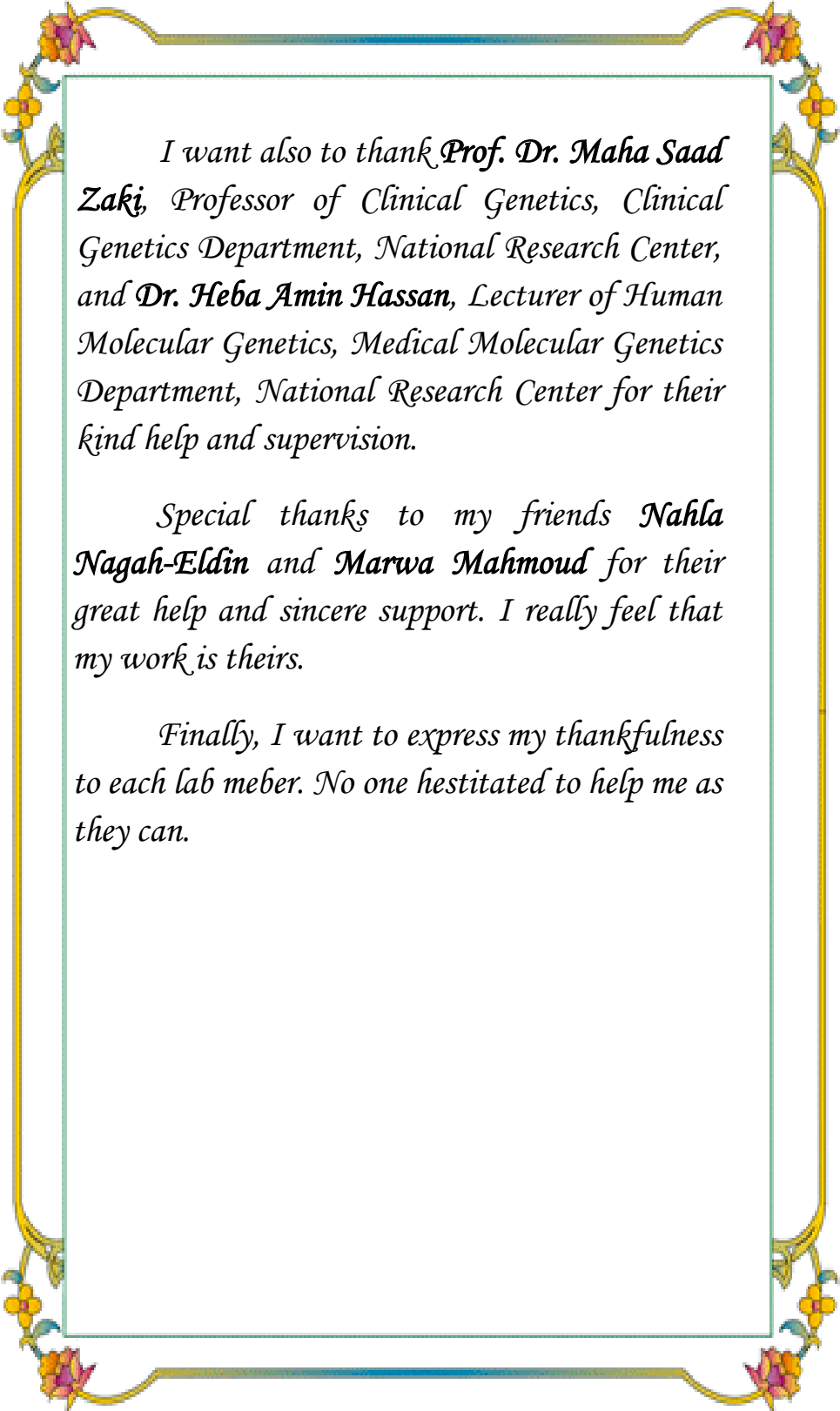
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List of Abbreviations

AD	Alzheimer disease
Ago	Argonaute
ALS	Amyotrophic lateral sclerosis
ANOVA	Analysis of variance
APCs	Antigen presenting cells
AQP4	Aquaporin-4
AUC	Area under the curve
BBB	Blood brain barrier
<i>C. elegans</i>	<i>Caenorhabditis elegans</i>
CADASIL	Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy
CI	Confidence interval
CNS	Central nervous system
CSF	Cerebrospinal fluid
CYP2R1	Vitamin D-25-hydroxylase
CYP27B1	1 α -hydroxylase
DCs	Dendritic cells
DMTs	Disease-modifying therapies
DIS	Dissemination in space
DIT	Dissemination in time
EAE	Experimental autoimmune encephalomyelitis
EDSS	Expanded Disability Status Scale
FDA	Food and Drug Administration

GA	Glatiramer Acetate
HLA	Human leukocyte antigen
HSP	Hereditary spastic paraparesis
HTLV1	Human T-cell leukemia virus
IFN-β	Interferon-beta
IgG	Immunoglobulin G
IL2RA	Interleukin-2 receptor α
IL7RA	Interleukin-7 receptor α
IL-10	Interleukin 10
IPA	Ingenuity Pathway Analysis
IPND	International Panel for NMO Diagnosis
IQR	Interquartile range
LETM	Longitudinally extensive transverse myelitis
LHON	Leber's hereditary optic neuropathy
LINEs	Long interspersed nuclear elements
mAbs	Monoclonal antibodies
MHC	Major histocompatibility complex
miRNAs	MicroRNAs
MLD	Metachromatic leukodystrophy
MRI	Magnetic resonance imaging
MS	Multiple sclerosis
MSSS	Multiple Sclerosis Severity Score
NAWM	Normal appearing white matter
NGS	Next generation sequencing
NK cells	Natural killer cells

NMOSD	Neuromyelitis optica spectrum disorder
NPSLE	Neuropsychiatric systemic lupus erythematosus
NPV	Negative predictive value
PBLs	Peripheral blood leukocytes
PBMCs	Peripheral blood mononuclear cells
PCR	Polymerase chain reaction
PML	Progressive multifocal leukoencephalopathy
PPMS	Primary progressive multiple sclerosis
PPV	Positive predictive value
pre-miRNA	Precursor miRNA
pri-miRNA	Primary miRNA
PRMS	Progressive relapsing multiple sclerosis
PTH	Parathyroid hormone
qRT-PCR	Quantitative reverse transcription PCR
RA	Rheumatoid arthritis
RFLP	Restriction fragment length polymorphism
RISC	RNA-induced silencing complex
ROC curve	Receiver operating characteristic curve
RRMS	Relapsing remitting multiple sclerosis
RT	Reverse transcription
RXR	Retinoid X receptor
SD	Standard deviation
SLE	Systemic lupus erythematosus
SMAD3	Signaling mother against decapentaplegic peptide 3
SNP	Single nucleotide polymorphism

SP1	Specificity protein 1
SPMS	Secondary progressive multiple sclerosis
SPSS	Statistical package for the social sciences
TAR	Trans -activator RNA
TGF-β	Transforming growth factor-beta
Th1 cells	T-helper 1cells
Th2 cells	T-helper 2 cells
Th17 cells	T helper 17 cells
TNF-α	Tumor necrosis factor alpha
TRBP	TAR-binding protein
Treg cells	Regulatory T cells
TUs	Transcript units
UTR	Untranslated region
UVB radiation	Ultraviolet B radiation
VDR	Vitamin D receptor
VDRE	Vitamin D-responsive element
XPO5	Exportin-5

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