

S100 PROTEIN FAMILY:  
BIOLOGICAL AND PATHOLOGICAL  
ROLE

Essay

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## List of Abbreviations

AD .....	Alzheimer's disease
AHNAK .....	Giant phosphoprotein
ALS .....	Amyotrophic Lateral Sclerosis
ANXA2 .....	Annexin A2
bHLH.....	basic helix-loop-helix
CaMK II .....	Calmodulin Kinase II
c-AMP .....	Cyclic adenosine monophosphate

CD .....	Crohn's disease
CICR.....	Ca <sup>2+</sup> Induce Ca <sup>2+</sup> Release
CK/CKMB .....	Creatine kinase
CPB .....	Cardiopulmonary Bypass
CRP .....	C-reactive protein
CSF.....	Cerebrospinal fluid
CT.....	Computed tomography
DAG .....	Diacyl-glycerol
DMEM.....	Dulbecco-modified Eagle medium
dNTPS .....	Deoxyribonucleoside triphosphates
DTT .....	Dithiothreitol
EBV .....	Epstein Barr virus
ECL .....	Electro-chemiluminescence
E-F hand .....	Elongation Fragment hand
EIA .....	Enzyme immunometric assay
ER.....	Estrogen Receptor
ERK1/2.....	Extracellular regulated protein kinase 1/2
ESR.....	Erythrocyte sedimentation rate
FGF1.....	Fibroblast growth factor 1
FITC .....	Fluorescein isothiocyanate
GADPH .....	Glyceraldehydes-3 phosphate dehydrogenase
GC .....	Guanylate cyclase
γIF.....	Gamma interferon

### List of Abbreviations (Cont.)

GIT .....	Gastrointestinal tract
HBEC .....	Human bronchial epithelial cells
hCG .....	Human chorionic gonadotrophin
HIE .....	Hypoxic ischemic encephalopathy
HSV .....	Herpes simplex virus
IBD.....	Inflammatory bowel disease
ICAM-1 .....	Intracellular adhesion molecule-1

Ifs.....	Intermediate filaments
IL-1 .....	Interleukin-1
IL-6.....	Interleukin-6
i-NOS.....	inducible nitric oxide synthetase
IP3 .....	Inositol triphosphate
IRMA.....	Immunoradiometric assay
IUGR .....	Intrauterine growth retardation
IVH.....	Intraventricular hemorrhage
KIF.....	Keratin intermediate filaments
MAP .....	Mitogen activated protein
MEK.....	Mitogen activated protein kinase kinase
MFs .....	Micro-filaments
MRI .....	Magnetic resonance imaging
mRNA .....	Messenger Ribonucleic acid
MRP8.....	Myeloid related protein 8
MRP14 .....	Myeloid related protein 14
MTs .....	Micro-tubules
ND .....	Not determined
Ndr.....	Nuclear serine/threonine protein kinase
NF-KB .....	Neurotrophic factor-Kappa
NKBF .....	Neuronal Kappa- Binding Factor
NO .....	Nitric oxide
PBS.....	Phosphate-buffered saline

### List of Abbreviations (Cont.)

PC12.....	Pheochromocytoma cells
PCR .....	Polymerase chain reaction
PKC .....	Protein kinase C
PLA2 .....	Phospholipase A2
PLC.....	Phospholipase C
PTCA.....	Percutaneous transluminal coronary angioplasty
RAGE.....	Receptor for Advanced Glycation End product



RIA ..... Radioimmunoassay  
ROC curve..... Receiver operating characteristic curve  
Ry. R..... Ryanodine receptor  
SDS-PAGE..... Sodium dodecyl sulfate- polyacrylamide gel  
                  electrophoresis  
SR ..... Sarcoplasmic reticulum  
T3..... Triiodothyronine  
TEF-1..... Transcriptional enhancer factor-1  
TGF- $\beta$  ..... Transforming growth factor- $\beta$   
THBS-1 ..... Thrombospondin-1  
TNF..... Tumor Necrosis Factor  
U/S..... Ultrasound  
VCAM-1..... Vascular cell adhesion molecular-1

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# Introduction and Aim of the Work

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# Review of Literature

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# Summary and Conclusion

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