

Genetic Basis of Rheumatic Diseases

Essay

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List of Abbreviations

1,25(OH) ₂ D	1,25-dihydroxyvitamin D
A1AT	Alpha-1-antitrypsin
AA	Adjuvant arthritis
AAV.....	Anti-neutrophil cytoplasmic antibodies- associated vasculitides
ABC	Adenosine triphosphate-binding cassette
ABCG	Adenosine triphosphate-binding cassette, sub- family G
ACA	Anticentromere antibodies
ACE	Angiotensin-converting enzyme
ACR	The American College of Rheumatology
AD.....	Autoimmune disease
Ad	Adenovirus
AH	Ancestral haplotype
AKAs	Anti-keratin antibodies
ALF-1	Allograft inflammatory factor-1
ANA	Anti- nuclear antibody
ANCA	Anti-neutrophil cytoplasmic antibodies
APF	Antiperinuclear factor
AR	Autosomal-recessive
Arg.....	Arginine
AS	Ankylosing spondylitis
ATP	Adenosine triphosphate
BANK1	B-cell scaffold protein with ankyrin repeats
BCR	B-cell receptors
BD	Behcet's disease
BiP	Binding immunoglobulin protein
BLK	B-lymphoid tyrosine kinase

List of Abbreviations (Cont.)

BMD	Bone mineral density
C	Complement
CAA	Coronary artery aneurysm
C-ANCA	Classical anti-neutrophil cytoplasmic antibodies
CCL	CC chemokine ligand
CCP	Cyclic citrullinated peptide
Cdna	Complementary deoxyribonucleic acid
Cen	Centromere
CHCC	Chapel Hill Consensus conference
CI	Confidence interval
CMV	Cytomegalovirus
COLIA1	Collagen 1 α 1 chain
CR	Complement receptor
CRP	C-reactive protein
CsK	Cellular-src tyrosine kinase
CSS	Churg–Strauss syndrome
CTGF	Connective tissue growth factor
CTL	Cytotoxic T lymphocyte
CTLA4	Cytotoxic T-Lymphocyte Antigen 4
D	Domain
DM	Dermatomyositis
DNA	Deoxyribonucleic acid
ds-DNA	Double-stranded DNA
DXA	Dual x-ray absorptiometry
EDRF	Endothelium-derived relaxation factor
ELISA	Enzyme-linked immunosorbent assay
EMA	European Medicines Agency

List of Abbreviations (Cont.)

ENOS	Endothelial nitric oxide synthase
ER	Endoplasmic reticulum
ESR	Estrogen receptor
ET-1	Endothelin-1
FACS	Fluorescence-activated cell sorting
FcR	Fc receptor
FGF	Fibroblast growth factor
fIBM	Familial inclusion-body myositis
FISH	Fluorescence in situ hybridization
FLS	Fibroblast-like synoviocyte
GCA	Giant cell arteritis
G-CSF	Granulocyte colony stimulating factor
GVH	Graft-vs-host
GvHD	Graft vs host disease
GWA	Genome-wide association
GWAS	Genome-wide association studies
HGP	Human Genome Project
HGRT	Hypoxanthine-guanine phosphoribosyltransferase
h-IBM	Hereditary inclusion body myopathy
HIV	Human immunodeficiency virus
HLA	Human leukocyte antigen
HSCT	Hematopoietic stem-cell transplantation
HSP	Henoch–Schonlein purpura
HSV	Hypersensitivity vasculitis
HTLV-1	Human T-cell lymphotropic virus-1
HVR	Hypervariable region
h β 2m	Human β 2 microglobulin

List of Abbreviations (Cont.)

i.a.	Intra-articular
IBD	Inflammatory bowel disease
IBM	Inclusion-body myositis
ICAM-1	Intercellular adhesion molecule 1
Ig	Immunoglobulin
IGF	Insulin-like growth factor
IIMs	Idiopathic inflammatory myopathies
IKK	Inhibitor of κ B kinase
IL	Interleukin
IL12B	Interleukin-12 subunit beta
IL-1R1	Interleukin-1 receptor type I
IL1RA	Interleukin-1 receptor antagonist
IL-1Ra	Interleukin-1 receptor antagonist
IL-1RAcP	Interleukin-1 receptor accessory protein
IL1RN	Interleukin-1 receptor antagonist
IL23R	Interleukin-23 receptor
INF	Interferon
IRF5	Interferon regulatory factor 5
ITAM	Immunoreceptor tyrosine-based activation motifs
ITGAM	Integrin α_M protein
ITIM	Immunoreceptor tyrosine-based inhibitory motifs
ITPKC	Inositol 1,4,5-trisphosphate 3-kinase C
ITR	Inverted terminal repeat
I- κ B	Inhibitor of kappa B
JIA	Juvenile idiopathic arthritis
KD	Kawasaki disease

List of Abbreviations (Cont.)

KIR	Killer immunoglobulin-like receptor
L	Long
LCK	Lymphocyte-specific protein tyrosine kinase
LCR	Leukocyte receptor complex
LD	Linkage disequilibrium
LDL	Low-density lipoprotein
LMP	Low molecular weight proteasome
LNS	Lesch-Nyhan syndrome
LRP	Low-density lipoprotein-receptor-related protein
LYP	Lymphoid tyrosine phosphatase protein
ManNAc kinase	N-acetylmannosamine kinase
MCP-1	Monocyte chemoattractant protein-1
M-CSF	Macrophage colony-stimulating factor
MEFV	Mediterranean Fever
MHC	Major histocompatibility complex
MHCIIa	Myosin heavy chain IIa
MICA	Class I chain-related A
MIF	Macrophage migration inhibitory factor
MIP- α 1	Microphage inflammatory protein alpha-1
MLC	Mixed leukocyte culture
MPA	Microscopic polyangiitis
MPL	Mannose-binding lectin
MPO	Myeloperoxidase
mRNA	Messenger ribonucleic acid
MRP	Multi-drug resistance protein
MSAs	Myositis-specific autoantibodies
MSC	Mesenchymal stem cell

List of Abbreviations (Cont.)

MSU	Monosodium urate	
mtDNA	Mitochondrial deoxyribonucleic acid	
NF	Nuclear factor	
NFAT	Nuclear factor of activated T-cells	
NK	Natural killer	
NKT	Natural killer T	
NOS	Nitric oxide synthase	
NPT	Sodium phosphate transporter	
OAT	Organic anion transporter	
OLIG3	Oligodendrocyte lineage transcription factor 3	
OPG	Osteoprotegerin	
OR	Odds ratio	
PAD	Peptidylarginine deiminase	
PAN	Polyarteritis nodosa	
P-ANCA	Protoplasmic-staining cytoplasmic antibodies	anti-neutrophil
PCR	Polymerase chain reaction	
PD-1	Programmed Death 1	
PDCD1	Programmed cell death 1	
PDCs	Plasmacytoid dendritic cells	
PDGF	Platelet-derived growth factor	
PG	Prostaglandin	
PM	Polymyositis	
PR3	Proteinase 3	
PsA	Psoriatic arthritis	
PTH	Parathyroid hormone	
PTHrP	Parathyroid hormone-related peptide	
PTK	Protein tyrosine kinase	

List of Abbreviations (Cont.)

PTPases	Protein tyrosine phosphatases
PTPN22	Protein tyrosine phosphatase non-receptor 22
QTLs	Quantitative trait loci
RA	Rheumatoid arthritis
rAAV	Recombinant adeno-associated virus
RANK	Receptor activator of nuclear factor κ B
RANTES	Regulated on activation, normal T-cell expressed and secreted
ReA	Reactive arthritis
RF	Rheumatoid factor
RNA	Ribonucleic acid
RR	Relative risk
RT	Reverse transcriptase
S	Short
SE	Shared epitope
SH	Src homology
sIBM	Sporadic inclusion-body myositis
SLC	Solute carrier
SLE	Systemic lupus erythematosus
SLEDAI	Systemic Lupus Erythematosus Disease Activity Index
SLEGEN	The International Consortium for Systemic Lupus Erythematosus Genetics
SMCT	Sodium-coupled monocarboxyl transporters
SNP	Single nucleotide polymorphism
SpA	Spondyloarthropathies
SPARC	Secreted protein, acidic and rich in cysteine
Src	Sarcoma
SSc	Systemic sclerosis