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**IL-17 / TGF β Levels
In Rheumatoid Arthritis:
An Imbalance in Th17/Treg Function
Thesis**

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قَالُوا سُبْحَانَكَ لَا عِلْمَ لَنَا إِلَّا مَا عَلَّمْتَنَا
إِنَّكَ أَنْتَ الْعَلِيمُ الْحَكِيمُ

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List of abbreviations

AA	Autoimmune arthritis
ACPA	Anti-citrullinated protein antibody
ACR	American College of Rheumatology
ACRSRA	American College of Rheumatology Subcommittee on rheumatoid arthritis
Anti- CarP	Anti-carbamylated protein antibodies
APCs	Antigen presenting cells
CCP	Cyclic citrullinated peptides
CIA	Collagen-induced arthritis
COX	Cyclooxygenase
CRP	C-reactive protein
DAS	Disease Activity Score
DC	Dendritic cells
DMARDs	Disease modifying antirheumatic drugs
DNA	Deoxyribonucleic acid
EBV	Epstein–Barr virus
EDTA	ethylene diamine tetra-acetate
ELISA	Enzyme Linked Immunosorbent Assay
ESR	Erythrocyte sedimentation rate
EULAR	European League Against Rheumatism
Fab	Fragment antigen-binding
Fc	Fragment crystallizable
FLSs	Fibroblast-like synoviocytes
Foxp3	factor forkhead box P3
GC	Germinal center
GM-CSF	Granulocyte-macrophage colony-stimulating factor
HLA	Human leucocyte antigen
IFN	Interferon
Ig	Immunoglobulin
IL	Interleukin
JAK	Janus kinases
LAP	Latency-associated peptide
MAPK	Mitogen-activated protein kinase
MCV	Mutated citrullinated vimentin
MMPs	Matrix metalloproteinases
MRI	Magnetic resonance imaging

NF- κ B	Nuclear factor κ -light-chain enhancer of activated B cells
NSAID	Nonsteroidal anti-inflammatory drug
OA	Osteoarthritis
PBMCs	peripheral blood mononuclear cells
PAD	Peptidylarginine-deiminase
PG	Prostaglandin
qPCR	quantitative polymerase chain reaction
RA	Rheumatoid arthritis
RANK	Receptor activator of nuclear factor κ B
RANKL	Receptor activator of nuclear factor κ B ligand
RASF	rheumatoid arthritis synovial fibroblasts
RF	Rheumatoid factor
ROR γ T	Retinoid-related orphan receptor
SE	Shared epitope
SEFIR	Similar expression to fibroblast growth factor genes and IL-17R
SF	Synovial fluid
SOCS	Suppressor of cytokine signalling
STAT	Signal transducers and activators of transcription
Syk	Spleen tyrosine kinase
TAK	Transforming growth factor beta-activated kinase
Tfh	Follicular helper T cells
TGF	Transforming growth factor
Th	T helper
TLR	Toll like receptor
TNF	Tumour necrosis factor
Tr1	Regulatory T cells subset
Treg	Regulatory T cells
TRAF	TNF receptor associated factor
TSP	Thrombospondin

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Dedication

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