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## LIST OF ABBREVIATION

### Abbreviation Details

BDI	Beck Depression Inventory
BDNF	Brain Derived Neurotrophic Factor
CDC	Center for Disease Control
DSM-5	Diagnostic and Statistical Manual
ELISA	enzyme linked immunosorbent assay
ICD-X	International Classification of Disease- X
IL	Interleukin
MDD	Major Depressive Disorder
NE	Norepinephrine
NGF	Nerve Growth Factor
OA	Osteoarthritis
RA	Rheumatoid Arthritis
Th	T helper
TNF- $\alpha$	Tumor Necrosis Factor- $\alpha$