

## Supplementary Materials

# The Immune Profile of Major Dysmood Disorder: Proof of Concept and Mechanism Using the Precision Nomothetic Psychiatry Approach

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**Supplementary Table S1.** Cytokine, chemokines and growth factors examined in the current study

<b>Protein Abbreviations</b>	<b>Protein Name</b>	<b>Gene Symbol</b>	<b>Number of Samples that Lower than Sensitivity of the assay (%)</b>
IL-1 $\beta$	Interleukin-1 $\beta$	IL1B	0
IL-1RA	Interleukin-1 receptor antagonist	IL1RN	0
IL-2	Interleukin-2	IL2	0
IL-4	Interleukin-4	IL4	0
IL-5	Interleukin-5	IL5	0
IL-6	Interleukin-6	IL6	0
IL-7	Interleukin-7	IL7	62.5
CXCL8	C-X-C motif chemokine ligand 8 (IL-8)	CXCL8	0
IL-9	Interleukin-9	IL9	0
IL-10	Interleukin-10	IL10	0
IL-12	Interleukin-12	IL12	0.5
IL-13	Interleukin-13	IL13	30
IL-15	Interleukin-15	IL15	0
IL-17	Interleukin-17	IL17	0
CCL11	Eotaxin	CCL11	0
FGF2	Fibroblast growth factor 2, Basic fibroblast growth factor	FGF2	0
G-CSF	Granulocyte Colony Stimulating Factor, Colony Stimulating Factor 3 (Granulocyte)	CSF3	0
GM-CSF	Granulocyte-macrophage colony-stimulating factor, Colony-stimulating factor 2	CSF2	0
IFN- $\gamma$	Interferon- $\gamma$	IFNG	0
CXCL10	C-X-C motif chemokine ligand 8, Interferon gamma-induced protein 10 (IP10)	CXCL10	0
CCL2	C-C Motif Chemokine Ligand 2 (MCP1)	CCL2	0

CCL3 / MIP-1 $\alpha$	Macrophage inflammatory protein-1 alpha, C-C Motif Chemokine Ligand 3	CCL3	0
PDGF	Platelet Derived Growth Factor Subunit A	PDGFA	0
CCL4 / MIP-1 $\beta$	C-C Motif Chemokine Ligand 4, Macrophage Inflammatory Protein 1-Beta, Lymphocyte Activation Gene 1 Protein	CCL4	0
CCL5 /RANTES	C-C Motif Chemokine Ligand 5, Regulated Upon Activation, Normally T-Expressed, And Presumably Secreted	CCL5	0
TNF- $\alpha$	Tumor Necrosis Factor-Alpha	TNF	0
VEGF	Vascular Endothelial Growth Factor	VEGFA	0

Adapted from: [14].

**Supplementary Table S2.** Description of the immune profiles used in this study

<b>Immune Profile</b>	<b>Members</b>
<b>M1 macrophage</b>	IL-1 $\beta$ , sIL-1RA, IL-6, TNF- $\alpha$ , CXCL8, CCL3
<b>T helper-1</b>	IL-2, IFN- $\gamma$ , IL-12
<b>T helper-2</b>	IL-4, IL-5, IL-9, IL-13
<b>T helper-17</b>	IL-6, IL-17
<b>IRS</b>	IL-1 $\beta$ , IL-6, TNF- $\alpha$ , CXCL8, CCL3, IL-2, IFN- $\gamma$ , IL-12, IL-17, IL-15, G-CSF, GM-CSF, CXCL10, CCL5, CCL2
<b>CIRS</b>	IL-4, IL-10, sIL-1RA
<b>Neurotoxicity</b>	IL-1 $\beta$ , IL-6, TNF- $\alpha$ , CXCL8, CCL3, IL-2, IFN- $\gamma$ , IL-12, IL-17, CXCL10, CCL11, CCL5, CCL2
<b>Growth factors</b>	FGF, PDGF, VEGF
<b>T cell growth</b>	IL4, IL9, IL12, GM-CSF, IL-15

IRS: immune-inflammatory response system; CIRS: compensatory immunoregulatory system

Adapted from: [14].