

Supplementary file

Table S1. Technical characteristics of biomarker monitoring

| Proteins | Function of proteins | Apparatus | Commercial kits | LLOQ (pg/mL) |
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| EGF – Epidermal growth factor | Stimulates the growth of various epidermal and epithelial tissues | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 0.9 |
| Eotaxin – CCL11 | Chemotaxis, Inflammatory response | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 4.7 |
| Fractalkine – CX3CL1 | Cell adhesion, Chemotaxis, Host-virus interaction, Inflammatory response | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 0.7 |
| G-CSF – Granulocyte-Colony Stimulating Factor | growth and differentiation of granulocytes and the monocytes-macrophages | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 4.5 |
| GFAP – Glial fibrillary acidic protein | Cell-specific marker of astrocytes | ELISA microplate reader Biotek | orb439741 Biorbyt, Cambridgeshire, UK | 15.6 |
| GM-CSF – Granulocyte-Macrophage Colony-Stimulating Factor | Growth and differentiation of granulocytes, macrophages, eosinophils and erythrocytes | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 10.0 |
| GRO/KC – Growth regulated α protein, CXCL1 | Inflammatory response | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 58.2 |
| IFN γ – Interferon gamma | Antiviral defense, Growth regulation | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 10.5 |
| IL-1 α – Interleukin 1 alpha | Inflammatory response | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 39.9 |
| IL-1 β – Interleukin 1 beta | Inflammatory response | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 2.3 |
| IL-2 – Interleukin 2 | Adaptive immunity, Immunity | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 9.9 |
| IL-4 – Interleukin 4 | B-cell activation | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 17.9 |
| IL-5 – Interleukin 5 | Survival, differentiation, and chemotaxis of eosinophils | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 19.8 |
| IL-6 – Interleukin 6 | Pro-inflammatory function (acute phase) | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 279.9 |
| IL-10 – Interleukin 10 | Anti-inflammatory functions | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 8.3 |
| IL-12(p70) – Interleukin 12 | Host-virus interaction | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 40.3 |

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| IL-13 – Interleukin 13 | Allergic inflammation and immune response to parasite infection | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 17.5 |
| IL-17A – Interleukin 17a | Adaptive immunity, Immunity, Inflammatory response, Innate immunity | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 6.8 |
| IL-18 – Interleukin 18 | Inflammatory response | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 6.2 |
| IP-10 – Interferon gamma-induced protein 10, CXCL10 | Chemotaxis, Inflammatory response | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 1.4 |
| Leptin | Regulation of energy balance Pro-inflammatory function | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 10.2 |
| LIX – Lipopolysaccharide-induced CXC chemokine, CXCL5 | Neutrophil activation | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 20.9 |
| MCP-1 - monocyte chemoattractant protein 1, CCL2 | Chemotaxis, Inflammatory response | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 9.0 |
| MIP-1α – Macrophage inflammatory protein-1 alpha, CCL3 | Chemotaxis, Inflammatory response | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 0.8 |
| MIP-2 – Macrophage Inflammatory Protein-2, CXCL2 | Chemotaxis, Inflammatory response | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 23.9 |
| NfL – Neurofilament light chain | Maintenance of neuronal caliber | Simple Plex Ella® ProteinSimple, USA | Rat NfL Kit ProteinSimple, USA | 2.7 |
| NGF – Nerve growth factor | Development and maintenance of the sympathetic and sensory nervous systems | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | EPX01A-32117-901 ThermoFisher Scientific®, France | 5.3 |
| OPN – Osteopontin | Biom mineralization, Cell adhesion | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RKTX1MAG-37K Merck®, France | 30.0 |
| RANTES – Regulated upon Activation, Normal T Cell Expressed and Presumably Secreted, CCL5 | Chemotaxis, Inflammatory response | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 1.3 |
| TNFα – Tumor necrosis factor alpha | Pro-inflammatory function | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 2.3 |
| VEGF – Vascular endothelial growth factor | Angiogenesis, Differentiation | Bio-Plex® 200 System Bio-Rad Laboratories, Inc., USA | RECYMAG65K27PMX Merck®, France | 2.6 |

Function of proteins are reported from Human Protein Atlas (proteintatlas.org)

LLOQ: lower limit of quantification