**Table S1.** Experimental folds for the biobank, in-house, and supernatant formulations.

| PRP Biobank-fold change | PRP in house fold change | SN Fold Change | ID | Symbol | Entrez Gene Name | Location | Type(s) |
|---|---|---|---|---|---|---|---|
| 3.319 | 2.181 | 2.713 | AR | AR | androgen receptor | Nucleus | ligand-dependent nuclear receptor |
| 95.994 | 130.865 | 38.967 | BDNF | BDNF | brain derived neurotrophic factor | Extracellular Space | growth factor |
| 5.314 | −2.001 | 2.492 | BMP4 | BMP4 | bone morphogenetic protein 4 | Extracellular Space | growth factor |
| 3.051 | 2.721 | 2.925 | BMP5 | BMP5 | bone morphogenetic protein 5 | Extracellular Space | growth factor |
| 3.445 | 1.874 | 2.199 | BMP7 | BMP7 | bone morphogenetic protein 7 | Extracellular Space | growth factor |
| −1.343 | 1.064 | 1.333 | CCL1 | CCL1 | C-C motif chemokine ligand 1 | Extracellular Space | cytokine |
| 1.532 | 1.778 | 3.773 | CCL11 | CCL11 | C-C motif chemokine ligand 11 | Extracellular Space | cytokine |
| 2.108 | 2.296 | 1.917 | CCL15 | CCL15 | C-C motif chemokine ligand 15 | Extracellular Space | cytokine |
| 2.817 | 9.210 | 2.058 | CCL2 | CCL2 | C-C motif chemokine ligand 2 | Extracellular Space | cytokine |
| 1.683 | 1.432 | 2.995 | CCL24 | CCL24 | C-C motif chemokine ligand 24 | Extracellular Space | cytokine |
| −1.261 | 5.625 | −1.690 | CCL3 | CCL3 | C-C motif chemokine ligand 3 | Extracellular Space | cytokine |
| 4.036 | 2.566 | 3.967 | CCL4 | CCL4 | C-C motif chemokine ligand 4 | Extracellular Space | cytokine |
| 2.565 | 2.502 | 2.763 | CCL5 | CCL5 | C-C motif chemokine ligand 5 | Extracellular Space | cytokine |
| 2.049 | 1.993 | 2.176 | CSF1 | CSF1 | colony stimulating factor 1 | Extracellular Space | cytokine |
| 3.085 | 0.000 | −1.372 | CSF2 | CSF2 | colony stimulating factor 2 | Extracellular Space | cytokine |
| −1.029 | 20.159 | −1.404 | CSF3 | CSF3 | colony stimulating factor 3 | Extracellular Space | cytokine |
| 1.297 | −4.708 | 1.395 | CXCL13 | CXCL13 | C-X-C motif chemokine ligand 13 | Extracellular Space | cytokine |
| 6.695 | -1.813 | 1.735 | IL8 | CXCL8 | C-X-C motif chemokine ligand 8 | Extracellular Space | cytokine |
| −1.391 | 1.078 | 3.065 | CXCL9 | CXCL9 | C-X-C motif chemokine ligand 9 | Extracellular Space | cytokine |
| 20.452 | −22.360 | −1.602 | EGF | EGF | epidermal growth factor | Extracellular Space | growth factor |
| 1.383 | 19.273 | 19.125 | EGFR | EGFR | epidermal growth factor receptor | Plasma Membrane | kinase |
| 3.807 | 1.473 | 1.249 | FGF2 | FGF2 | fibroblast growth factor 2 | Extracellular Space | growth factor |
| 2.427 | 2.022 | 2.793 | FGF4 | FGF4 | fibroblast growth factor 4 | Extracellular Space | growth factor |
| 2.306 | 2.060 | 2.394 | FGF7 | FGF7 | fibroblast growth factor 7 | Extracellular Space | growth factor |
| 12.721 | 1.418 | 1.378 | FLT4 | FLT4 | fms related receptor tyrosine kinase 4 | Plasma Membrane | transmembrane receptor |
| 1.489 | 4.958 | 8.506 | GDF15 | GDF15 | growth differentiation factor 15 | Extracellular Space | growth factor |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3.560 | 2.360 | 3.001 | GDNF | GDNF | glial cell derived neurotrophic factor | Extracellular Space | growth factor |
| 2.361 | 1.908 | 2.638 | GH1 | GH1 | growth hormone 1 | Extracellular Space | growth factor |
| 1.672 | −1.235 | 2.563 | HBEGF | HBEGF | heparin binding EGF like growth factor | Extracellular Space | growth factor |
| 4.331 | 1.765 | 2.125 | HGF | HGF | hepatocyte growth factor | Extracellular Space | growth factor |
| 1.434 | 3.629 | 5.935 | ICAM1 | ICAM1 | intercellular adhesion molecule 1 | Plasma Membrane | transmembrane receptor |
| 5.970 | −1.106 | 2.050 | IFNG | IFNG | interferon gamma | Extracellular Space | cytokine |
| 7.063 | 14.949 | −1.857 | IGF1 | IGF1 | insulin like growth factor 1 | Extracellular Space | growth factor |
| 2.228 | 1.475 | 2.987 | IGFBP1 | IGFBP1 | insulin like growth factor binding protein 1 | Extracellular Space | other |
| 2.099 | 1.882 | 4.023 | IGFBP2 | IGFBP2 | insulin like growth factor binding protein 2 | Extracellular Space | other |
| 2.842 | 2.318 | 2.330 | IGFBP3 | IGFBP3 | insulin like growth factor binding protein 3 | Extracellular Space | other |
| 1.788 | 2.056 | 2.444 | IGFBP4 | IGFBP4 | insulin like growth factor binding protein 4 | Extracellular Space | other |
| 1.985 | −1.141 | 1.080 | IGFBP6 | IGFBP6 | insulin like growth factor binding protein 6 | Extracellular Space | other |
| 3.000 | −1.077 | 1.374 | IL10 | IL10 | interleukin 10 | Extracellular Space | cytokine |
| 5.258 | 11.638 | 1.052 | IL11 | IL11 | interleukin 11 | Extracellular Space | cytokine |
| 3.721 | | -3.416 | IL12A | IL12A | interleukin 12A | Extracellular Space | cytokine |
| -3.295 | | -1.967 | IL12B | IL12B | interleukin 12B | Extracellular Space | cytokine |
| 3.038 | −1.528 | −1.843 | IL13 | IL13 | interleukin 13 | Extracellular Space | cytokine |
| 2.207 | 11.208 | −1.002 | IL15 | IL15 | interleukin 15 | Extracellular Space | cytokine |
| 1.022 | 1.266 | 3.688 | IL16 | IL16 | interleukin 16 | Extracellular Space | cytokine |
| 1.702 | −2.043 | 2.177 | IL17 | IL17A | interleukin 17A | Extracellular Space | cytokine |
| 2.030 | | −2.784 | IL1B | IL1B | interleukin 1 beta | Extracellular Space | cytokine |
| 1.252 | | 0.000 | IL2 | IL2 | interleukin 2 | Extracellular Space | cytokine |
| −1.057 | 0.000 | 2.927 | IL4 | IL4 | interleukin 4 | Extracellular Space | cytokine |
| 2.076 | 0.000 | −2.721 | IL5 | IL5 | interleukin 5 | Extracellular Space | cytokine |
| 6.213 | 2.192 | −2.086 | IL6 | IL6 | interleukin 6 | Extracellular Space | cytokine |
| 3.282 | 0.000 | 1.276 | IL7 | IL7 | interleukin 7 | Extracellular Space | cytokine |
| 3.602 | 4.966 | −1.559 | INS | INS | insulin | Extracellular Space | other |
| 3.617 | 7.940 | 2.366 | KDR | KDR | kinase insert domain receptor | Plasma Membrane | kinase |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2.221 | 6.572 | 2.219 | KIT | KIT | KIT proto-oncogene. receptor tyrosine kinase | Plasma Membrane | transmembrane receptor |
| 2.312 | 1.787 | 3.183 | KITLG | KITLG | KIT ligand | Extracellular Space | growth factor |
| 3.050 | 2.185 | 2.161 | LTA | LTA | lymphotoxin alpha | Extracellular Space | cytokine |
| 1.193 | 1.514 | 2.002 | LTBR | LTBR | lymphotoxin beta receptor | Plasma Membrane | transmembrane receptor |
| 4.401 | 1.647 | 2.138 | NGF | NGF | nerve growth factor | Extracellular Space | growth factor |
| 3.663 | 11.200 | −1.811 | NGFR | NGFR | nerve growth factor receptor | Plasma Membrane | transmembrane receptor |
| 4.470 | 2.258 | 1.997 | NTF3 | NTF3 | neurotrophin 3 | Extracellular Space | growth factor |
| 2.303 | 1.393 | 2.262 | NTF4 | NTF4 | neurotrophin 4 | Extracellular Space | growth factor |
| 5.800 | 1.352 | 2.384 | PDGFA | PDGFA | platelet derived growth factor subunit A | Extracellular Space | growth factor |
| 4.320 | 1.957 | 4.092 | PDGFB | PDGFB | platelet derived growth factor subunit B | Extracellular Space | growth factor |
| 1.570 | 2.620 | 2.965 | PIGF | PIGF | phosphatidylinositol glycan anchor biosynthesis class F | Cytoplasm | enzyme |
| 2.766 | 4.628 | 4.718 | PROK1 | PROK1 | prokineticin 1 | Extracellular Space | growth factor |
| 1.084 | 7.804 | 7.895 | TGFA | TGFA | transforming growth factor alpha | Extracellular Space | growth factor |
| 2.407 | 1.257 | 1.418 | TGFB1 | TGFB1 | transforming growth factor beta 1 | Extracellular Space | growth factor |
| 2.254 | 4.249 | 2.298 | TGFB3 | TGFB3 | transforming growth factor beta 3 | Extracellular Space | growth factor |
| 1.991 | 2.632 | −1.318 | TIMP1 | TIMP1 | TIMP metallopeptidase inhibitor 1 | Extracellular Space | cytokine |
| 2.604 | 2.909 | 2.318 | TIMP2 | TIMP2 | TIMP metallopeptidase inhibitor 2 | Extracellular Space | other |
| 2.873 | −1.059 | 1.731 | TNF | TNF | tumor necrosis factor | Extracellular Space | cytokine |
| 2.345 | 2.014 | 2.076 | TNFRSF11B | TNFRSF11B | TNF receptor superfamily member 11b | Plasma Membrane | transmembrane receptor |
| 1.287 | 3.080 | 3.002 | TNFRSF1A | TNFRSF1A | TNF receptor superfamily member 1A | Plasma Membrane | transmembrane receptor |
| 3.476 | 4.946 | −1.902 | VEGFA | VEGFA | vascular endothelial growth factor A | Extracellular Space | growth factor |
| 4.428 | −2.897 | 2.918 | VEGFD | VEGFD | vascular endothelial growth factor D | Extracellular Space | growth factor |

**Table S2.** Biological attributes per protocol associated with experimental datasets. Molecule ratios denote molecules present in our dataset/those known to be associated with the annotation. -log (*p*-value) is *p*-value of overlap, which measures the significance /enrichment of a biological attribute.

| **Activated functions/pathways.** | **Enrichment score per protocol (molecule ratio) –log(*p*-value)** | | |
|---|---|---|---|
| | **Biobank** | **In-house** | **Supernatant** |
| Wound healing | 32/ 256<br>43.57 | 28/256<br>37.128 | 34/256<br>47.201 |
| Tumour microenvironment | 25/188<br>34.29 | 23/188<br>31.208 | 26/188<br>35.839 |
| IL-17 signalling | 24/189<br>32.36 | 20/189<br>25.714 | 24/189<br>32.044 |
| HMGB1 signalling | 22/167<br>29.951 | 18/167<br>23.44 | 22/167<br>29.66 |
| Neuroinflammation | 20/330<br>20.272 | 18/330<br>17.854 | 20/330<br>20.023 |
| NF-kB signalling | 16/570<br>11.015 | 15/570<br>10.296 | 17/570<br>11.924 |
| IL-8 | 10/215<br>9.07 | 10/215<br>9.307 | 10/215<br>8.955 |
| IL-6 | 9/128<br>9.793 | 8/128<br>8.535 | 10/128<br>11.18 |
| OA pathway | 9/241<br>7.377 | 8/241<br>6.447 | 9/241<br>7.277 |