**Supplemental Table 2.** Cytokine perturbations based on PRCC

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| **Perturbation** | **Original cytokine parameter** | **Altered cytokine parameter** |
| Decrease HGF decay | 0.000228 | 0.0000776 |
| Increase TGF-β decay | 0.0242 | 0.241899 |
| Increase MMP-9 decay | 0.0112 | 0.101994 |
| Decrease VEGF-A decay | 0.0015 | 0.000249267 |
| Increase MCP-1 diffusion | 0.18627 | 1.76943 |
| Increase MCP-1 decay | 0.0124 | 0.118216 |
| Combination | Above alterations excluding increased MCP-1 decay | |