

Appendix from DuBrock et al., “Macrophage migration inhibitory factor as a novel biomarker of portopulmonary hypertension” (Pulm. Circ., vol. 6, no. 4, p. 498)

Table S1. Raw data of pixel density for cytokines included in Proteome Profiler Human XL Cytokine antibody array kit (R&D Systems, Minneapolis, MN) performed at R&D Systems in duplicate for controls ($n = 3$) and patients with portopulmonary hypertension (POPH; $n = 3$)

Biomarker	Control			POPH		
	1	2	3	1	2	3
Adiponectin (a)	49,475.05	51,813.08	53,522.44	55,451.35	57,121.03	51,293.78
Adiponectin (b)	48,409.73	49,735.91	53,539.46	53,638.29	56,941.99	53,726.59
Aggrecan (a)	42,337.03	33,407	39,124.06	37,635.05	43,924.06	43,649.43
Aggrecan (b)	43,803.35	34,796.37	39,260.97	37,627.76	44,340.47	44,042.34
Angiogenin (a)	48,575.81	47,943.91	51,092.87	50,782.59	53,224.32	54,202.95
Angiogenin (b)	47,950.39	49,051.35	48,820.47	49,131.56	50,935.71	53,827.05
Angiopoietin-1 (a)	4,577.84	7,119.2	4,712.32	5,570.24	6,515.66	5,567.81
Angiopoietin-1 (b)	4,270.8	6,897.23	4,054.49	5,721.73	5,888.62	5,311.81
Angiopoietin-2 (a)	7,388.97	4,646.7	5,370.14	6,734.39	6,149.48	11,491.46
Angiopoietin-2 (b)	6,974.19	4,525.99	5,071.2	6,541.58	5,816.52	10,307.86
BAFF (a)	36,824.92	12,810.34	14,595.86	31,761.63	12,899.46	29,878.09
BAFF (b)	35,090.44	12,770.65	14,148.67	30,428.97	12,428.77	27,502.8
BDNF (a)	4,868.67	4,154.14	4,848.42	5,141.68	5,105.23	6,755.46
BDNF (b)	4,503.3	4,230.29	4,483.05	4,983.71	4,812.77	6,235.35
C-reactive protein (a)	54,720.62	57,038.39	55,866.95	47,585.03	61,840.01	56,670.59
C-reactive protein (b)	52,023.71	56,764.57	56,988.16	41,436.97	63,026.04	56,401.63
C5/C5a (a)	26,880.62	26,495.81	28,324.27	22,486.49	34,547.66	28,819.25
C5/C5a (b)	27,324.57	26,209.84	28,707.46	22,821.89	34,077.78	29,083.35
CD14 (a)	21,054.19	14,609.63	18,332.97	18,935.71	26,904.11	25,932.77
CD14 (b)	19,336.72	15,288.52	19,893.28	19,371.56	26,252.77	27,424.22
CD30 (a)	4,303.2	4,010.75	6,633.13	4,270.8	4,289.43	4,581.08
CD30 (b)	4,634.54	4,183.3	7,536.42	4,628.06	4,748.77	4,483.86
CD40 ligand (a)	6,127.61	4,913.23	7,488.62	7,002.54	7,017.13	7,020.37
CD40 ligand (b)	7,797.28	5,099.56	7,313.63	7,405.18	7,789.99	7,788.37
Chitinase 3-like 1 (a)	57,829.89	59,574.9	59,099.35	56,523.96	60,417.43	57,890.65
Chitinase 3-like 1 (b)	58,441.53	59,017.53	56,608.22	55,395.46	58,857.13	58,610.04
Complement factor D (a)	45,576.72	45,046.09	46,562.65	45,570.24	49,713.23	48,519.91
Complement factor D (b)	43,177.94	43,029.68	45,726.59	44,027.76	48,474.54	48,539.35
Cripto-1 (a)	4,456.32	4,342.9	5,769.53	5,609.13	5,932.37	4,816.01
Cripto-1 (b)	4,308.87	4,070.7	5,148.16	5,344.22	5,042.04	4,285.38
Cystatin C (a)	42,534.7	38,213.48	40,565.28	37,703.1	41,587.66	47,457.03
Cystatin C (b)	42,581.68	39,012.27	40,379.76	37,946.95	42,130.44	46,264.52
Dkk-1 (a)	4,610.24	4,376.92	4,345.33	4,321.84	4,434.44	4,572.16

Table S1 (Continued)

Dkk-1 (b)	4,322.65	4,222.19	4,004.27	4,322.65	4,123.35	4,406.9
DPPIV (a)	19,430.7	14,381.18	24,554.75	11,702.9	35,501.18	38,807.3
DPPIV (b)	19,316.47	14,224.82	23,883.96	11,749.89	35,797.68	39,267.46
EGF (a)	5,270.49	4,368.82	4,946.44	5,410.65	6,691.46	5,624.52
EGF (b)	4,930.24	4,103.1	4,515.46	5,453.58	6,423.3	5,690.14
Emmprin (a)	25,514.75	17,168.01	24,142.39	21,741.18	29,767.91	32,976.01
Emmprin (b)	26,339.46	17,531.76	24,390.29	21,983.41	31,657.13	32,724.06
ENA-78/CXCL5 (a)	5,102.8	4,091.76	4,436.06	5,670.7	5,567	5,251.86
ENA-78/CXCL5 (b)	5,165.18	4,103.1	4,530.04	6,239.41	5,370.14	5,690.14
Endoglin (a)	42,504.72	39,474.04	40,132.67	40,569.33	45,897.53	44,485.48
Endoglin (b)	44,210.85	40,539.35	40,144.82	41,313.84	44,061.78	45,533.78
Fas ligand (a)	8,272.82	8,490.75	6,702.8	7,451.35	7,640.11	9,931.15
Fas ligand (b)	6,987.15	7,363.86	5,654.49	6,684.97	6,038.49	7,862.9
FGF basic (a)	7,225.33	6,184.32	5,836.77	10,375.1	7,203.46	7,942.29
FGF basic (b)	8,634.95	7,249.63	8,084.87	10,597.89	8,258.24	9,260.37
FGF-19 (a)	9,596.57	6,616.92	7,992.52	9,123.46	10,684.57	14,792.72
FGF-19 (b)	9,436.97	6,801.63	8,316.57	9,861.48	10,581.68	17,103.2
FGF-7 (a)	5,376.62	4,853.28	5,535.41	4,922.14	6,125.99	5,657.73
FGF-7 (b)	4,381.78	3,890.04	4,160.62	4,368.01	4,909.18	4,123.35
Flt-3 ligand (a)	5,109.28	3,975.1	6,268.57	6,198.09	5,014.49	9,035.96
Flt-3 ligand (b)	4,754.44	4,058.54	5,848.11	5,780.06	5,106.85	8,103.51
G-CSF (a)	3,949.99	3,894.09	3,909.48	4,120.11	4,139.56	4,252.97
G-CSF (b)	3,949.18	3,941.89	3,938.65	4,036.67	4,004.27	4,570.54
GDF-15 (a)	40,438.09	20,039.91	29,624.52	31,984.42	27,638.09	39,824.01
GDF-15 (b)	40,287.41	20,970.75	29,311	34,463.41	27,331.05	40,420.27
GM-CSF (a)	5,122.24	4,570.54	6,665.53	9,153.43	6,621.78	5,607.51
GM-CSF (b)	5,494.9	4,820.06	6,822.7	9,681.63	6,907.76	5,792.22
GRO alpha (a)	4,065.03	3,673.73	4,045.58	4,060.16	4,146.04	4,265.94
GRO alpha (b)	3,981.58	3,882.75	4,074.75	4,783.61	4,103.91	4,368.82
Growth hormone (a)	23,878.29	3,857.63	5,267.25	39,828.06	4,882.44	28,370.44
Growth hormone (b)	23,081.94	3,859.25	4,863.81	39,254.49	4,692.87	28,107.15
HGF (a)	7,046.29	4,243.25	4,288.62	6,411.15	5,659.35	11,729.63
HGF (b)	7,796.47	4,201.13	4,855.71	7,336.32	6,422.49	12,474.95
I-TAC (a)	4,071.51	3,897.33	4,021.28	4,889.73	4,073.94	5,148.97
I-TAC (b)	4,522.75	4,417.43	4,267.56	5,093.08	3,928.92	5,351.51
ICAM-1 (a)	43,559.51	34,089.94	43,228.16	46,172.97	46,892.37	46,414.39
ICAM-1 (b)	42,049.43	34,022.7	42,674.04	45,490.04	47,115.96	47,282.04
IFN-gamma (a)	4,627.25	4,165.48	4,502.49	5,598.59	4,836.27	5,136.01
IFN-gamma (b)	4,730.95	4,048.01	4,551.1	5,623.71	4,893.78	5,567
IGFBP-2 (a)	37,399.3	31,482.14	34,622.19	36,414.19	37,768.72	40,511.81
IGFBP-2 (b)	37,499.76	32,535.3	33,633.84	36,483.86	37,968.82	38,718.19
IGFBP-3 (a)	35,184.42	31,469.99	30,911.81	29,920.22	31,862.09	38,716.57
IGFBP-3 (b)	34,237.38	31,311.2	30,785.43	30,343.91	32,413.78	39,155.66
IL-1 alpha (a)	4,764.16	4,152.52	4,513.03	6,364.97	4,868.67	6,346.34
IL-1 alpha (b)	4,628.06	4,023.71	4,467.66	6,127.61	4,598.9	6,053.89
IL-1 beta (a)	4,323.46	3,676.16	3,916.77	4,762.54	4,828.97	4,760.92
IL-1 beta (b)	4,369.63	3,816.32	4,036.67	4,402.04	4,634.54	4,336.42

Table S1 (Continued)

IL-10 (a)	4,343.71	3,909.48	4,073.94	4,389.08	5,101.18	4,396.37
IL-10 (b)	4,235.96	3,786.34	3,970.24	4,251.35	4,815.2	4,805.48
IL-11 (a)	5,751.71	4,666.95	5,916.16	6,945.84	5,901.58	7,281.23
IL-11 (b)	5,652.87	4,923.76	5,936.42	6,459.76	6,138.14	7,252.87
IL-12 p70 (a)	4,473.33	4,060.16	4,129.84	5,054.19	4,887.3	4,671
IL-12 p70 (b)	4,534.9	4,231.91	4,187.35	4,864.62	5,398.49	4,789.28
IL-13 (a)	4,346.95	4,049.63	4,267.56	4,628.06	4,769.03	4,897.84
IL-13 (b)	4,101.48	3,834.95	3,949.18	4,441.73	4,237.58	4,675.86
IL-15 (a)	4,354.24	3,614.59	4,058.54	4,779.56	4,631.3	4,649.94
IL-15 (b)	4,327.51	4,022.09	3,994.54	4,165.48	4,329.13	4,331.56
IL-16 (a)	3,926.49	4,112.01	3,903	4,240.01	3,998.59	4,269.99
IL-16 (b)	3,854.39	3,736.92	4,071.51	3,832.52	3,790.39	4,427.96
IL-17A (a)	8,203.96	6,341.48	10,859.56	10,640.82	11,412.87	23,004.97
IL-17A (b)	9,284.67	7,615.81	11,457.43	11,877.08	10,068.06	25,284.67
IL-18 Bpa (a)	13,595.35	10,921.13	15,762.44	13,524.06	14,612.06	19,831.71
IL-18 Bpa (b)	14,433.03	10,981.89	16,776.72	13,121.43	16,122.14	20,157.38
IL-19 (a)	4,373.68	4,036.67	4,388.27	5,250.24	4,639.41	5,689.33
IL-19 (b)	4,413.38	4,129.84	4,287.81	5,062.29	4,589.99	5,710.39
IL-1ra (a)	4,214.09	4,204.37	4,892.16	4,325.89	4,434.44	4,159
IL-1ra (b)	3,961.33	3,846.29	5,038.8	4,127.41	4,516.27	4,441.73
IL-2 (a)	4,366.39	3,735.3	4,251.35	4,924.57	4,981.28	4,516.27
IL-2 (b)	4,633.73	4,133.89	4,110.39	5,141.68	5,083.35	4,303.2
IL-22 (a)	4,445.78	3,935.41	4,407.71	4,851.66	5,264.01	5,724.97
IL-22 (b)	4,603.76	4,005.89	4,335.61	4,799	5,001.53	5,396.87
IL-23 (a)	3,846.29	3,558.7	3,796.87	3,971.05	3,941.08	4,162.24
IL-23 (b)	4,069.89	3,806.59	3,885.18	3,886.8	3,973.48	4,344.52
IL-24 (a)	4,102.29	4,088.52	3,947.56	4,117.68	4,048.82	4,259.46
IL-24 (b)	4,041.53	3,965.38	3,919.2	4,386.65	4,013.18	4,218.95
IL-27 (a)	4,251.35	4,025.33	4,457.13	4,581.08	4,557.58	5,665.84
IL-27 (b)	4,255.41	4,412.57	4,573.78	4,509.78	4,658.85	5,732.27
IL-3 (a)	4,086.9	3,843.86	3,959.71	4,289.43	4,500.87	4,009.13
IL-3 (b)	3,940.27	3,741.78	3,863.3	4,096.62	4,577.03	4,127.41
IL-31 (a)	3,528.72	3,979.96	3,889.23	4,052.87	4,081.23	3,950.8
IL-31 (b)	3,932.16	3,999.41	4,106.34	4,044.77	4,089.33	4,005.89
IL-32 alpha/beta/gamma (a)	4,115.25	3,886.8	4,007.51	4,043.15	4,014.8	4,300.77
IL-32 alpha/beta/gamma (b)	4,059.35	3,859.25	3,970.24	4,235.15	4,052.06	4,145.23
IL-33 (a)	3,706.95	4,003.46	4,244.87	3,941.89	3,911.91	4,107.15
IL-33 (b)	3,757.18	3,985.63	4,131.46	3,962.95	3,880.32	4,042.34
IL-34 (a)	4,701.78	3,842.24	4,161.43	4,688.82	4,532.47	4,154.95
IL-34 (b)	4,230.29	3,659.96	4,168.72	4,468.47	3,971.05	4,130.65
IL-4 (a)	4,349.38	3,886.8	4,282.95	4,479.81	4,827.35	5,532.16
IL-4 (b)	4,699.35	4,118.49	4,379.35	4,692.87	4,556.77	4,837.89
IL-5 (a)	3,546.54	3,724.77	3,986.44	4,411.76	3,938.65	3,920.82
IL-5 (b)	3,728.82	3,836.57	4,068.27	4,496.01	3,728.82	4,085.28
IL-6 (a)	4,662.09	4,062.59	4,993.43	6,101.68	5,687.71	7,356.57
IL-6 (b)	4,914.04	4,336.42	4,918.09	6,555.35	5,499.76	7,184.01
IL-8 (a)	4,903.51	4,905.94	4,929.43	5,752.52	8,023.3	5,511.1

Table S1 (Continued)

IL-8 (b)	4,858.95	5,515.15	5,102.8	6,408.72	9,343.81	5,345.03
IP-10 (a)	4,361.53	4,318.59	4,184.92	4,305.63	4,607.81	4,610.24
IP-10 (b)	4,343.71	4,265.94	4,283.76	4,282.95	4,440.92	4,892.97
Kallikrein 3 (a)	4,473.33	4,349.38	4,574.59	5,565.38	4,556.77	7,008.22
Kallikrein 3 (b)	4,972.37	4,354.24	4,743.1	6,244.27	4,866.24	7,281.23
Leptin (a)	4,009.94	6,708.47	26,090.75	4,730.14	40,552.32	36,914.04
Leptin (b)	4,167.91	6,688.22	27,488.22	4,575.41	41,138.04	37,633.43
LIF (a)	4,118.49	3,816.32	4,092.57	3,856.01	4,039.91	3,962.14
LIF (b)	3,633.23	3,843.86	4,031	3,995.35	3,875.46	4,271.61
Lipocalin-2 (a)	43,935.41	41,867.96	39,126.49	41,435.35	41,511.51	44,251.35
Lipocalin-2 (b)	42,157.18	40,065.43	39,346.85	41,650.85	41,312.22	43,188.47
M-CSF (a)	5,320.72	4,393.94	4,261.89	6,151.91	4,873.53	6,012.57
M-CSF (b)	5,098.75	4,561.63	4,749.58	6,142.19	4,753.63	6,559.41
MCP-1 (a)	5,313.43	5,227.56	5,993.13	9,079.71	6,985.53	14,634.75
MCP-1 (b)	4,936.72	5,204.06	5,654.49	8,602.54	6,074.14	11,991.3
MCP-3 (a)	3,806.59	3,890.04	3,933.78	4,022.09	3,935.41	4,043.15
MCP-3 (b)	3,792.01	3,919.2	3,957.28	4,224.62	3,920.01	4,031.81
MIF (a)	9,643.56	12,099.05	8,366.8	15,056.82	16,461.58	17,806.39
MIF (b)	9,532.57	12,142.8	8,414.59	14,255.61	17,626.54	17,547.96
MIG (a)	3,928.92	4,771.46	5,245.38	4,417.43	4,513.03	4,763.35
MIG (b)	4,235.15	4,636.16	5,233.23	4,153.33	4,291.05	4,708.27
MIP-1 alpha/MIP-1 beta (a)	3,694.8	4,078.8	3,980.77	3,967.81	3,962.14	4,036.67
MIP-1 alpha/MIP-1 beta (b)	3,646.19	3,876.27	3,900.57	3,821.18	3,834.14	3,997.78
MIP-3 alpha (a)	3,893.28	3,971.86	3,994.54	4,037.48	3,870.59	4,249.73
MIP-3 alpha (b)	3,866.54	3,984.82	3,834.95	3,826.85	3,540.87	4,304.82
MIP-3 beta (a)	4,088.52	4,418.24	5,205.68	4,895.41	4,685.58	11,016.72
MIP-3 beta (b)	4,434.44	4,816.82	5,439	5,373.38	5,195.15	12,375.3
MMP-9 (a)	23,242.34	34,550.9	15,947.96	29,369.33	37,898.34	40,125.38
MMP-9 (b)	25,308.16	34,780.16	16,929.84	31,836.97	38,814.59	39,637.68
Myeloperoxidase (a)	3,970.24	4,069.89	4,524.37	4,204.37	4,671.81	19,131.76
Myeloperoxidase (b)	4,359.91	4,394.75	5,002.34	4,585.94	5,274.54	19,384.52
Negative control (a)	3,448.52	3,720.72	3,973.48	3,852.77	3,876.27	3,941.08
Negative control (b)	3,488.22	3,738.54	3,813.89	3,635.66	3,503.61	3,740.97
Osteopontin (OPN) (a)	35,660.77	35,127.71	35,876.27	35,597.58	39,423	41,934.39
Osteopontin (OPN) (b)	36,302.39	35,356.16	34,507.15	35,870.59	40,054.09	41,600.62
PDGF-AA (a)	7,590.7	10,172.57	5,582.39	17,538.24	12,287	8,497.23
PDGF-AA (b)	7,337.13	9,839.61	5,358.8	16,857.73	12,153.33	8,374.09
PDGF-AB/BB (a)	4,656.42	9,930.34	4,157.38	7,457.84	6,683.35	5,321.53
PDGF-AB/BB (b)	4,247.3	9,611.96	4,457.13	8,148.87	6,633.13	5,191.1
Pentraxin-3 (a)	6,212.67	4,910.8	6,694.7	7,769.73	6,323.66	11,477.68
Pentraxin-3 (b)	6,906.14	5,627.76	7,960.11	8,374.9	6,168.92	12,158.19
PF4/CXCL4 (a)	57,154.24	54,213.48	54,479.2	40,127	41,249.84	45,182.19
PF4/CXCL4 (b)	52,260.27	54,831.61	53,351.51	38,979.86	41,018.95	45,058.24
RAGE (a)	6,634.75	4,277.28	4,565.68	4,534.09	5,084.16	5,582.39
RAGE (b)	7,128.11	4,494.39	4,644.27	4,949.68	5,119.81	5,895.1
RANTES (a)	39,853.99	41,006.8	23,384.11	45,642.34	41,897.13	35,163.35
RANTES (b)	40,141.58	38,945.84	24,694.9	45,287.51	42,260.87	36,268.37

Table S1 (Continued)

RBP-4 (a)	59,311.61	59,420.97	57,823.41	61,807.61	61,830.29	61,105.23
RBP-4 (b)	60,585.94	58,495.81	56,527.2	61,684.47	62,564.27	62,118.7
Relaxin-2 (a)	3,940.27	4,339.66	4,516.27	4,402.85	5,694.19	5,046.09
Relaxin-2 (b)	3,683.46	4,056.11	3,951.61	4,247.3	4,157.38	4,338.04
Resistin (a)	22,460.57	23,546.14	13,109.28	18,477.18	12,946.44	16,427.56
Resistin (b)	25,428.87	26,247.91	14,527	20,014.8	14,277.48	17,829.89
Reference spot (a)	43,270.29	44,483.05	46,708.47	48,631.71	51,555.46	44,853.28
Reference spot (b)	43,865.73	47,107.86	47,260.16	51,318.9	54,133.28	44,536.52
Reference spot (c)	40,843.96	43,431.51	44,969.94	47,970.65	47,593.94	46,937.73
Reference spot (d)	40,363.56	41,449.13	46,931.25	45,922.65	46,817.84	45,675.56
Reference spot (e)	45,060.67	44,535.71	51,301.89	50,129.63	46,112.22	49,145.33
Reference spot (f)	45,392.82	43,874.65	50,541.99	50,559.81	47,414.09	46,031.2
SDF-1 alpha (a)	12,247.3	9,244.16	11,033.73	14,233.73	13,702.29	19,557.08
SDF-1 alpha (b)	12,442.54	9,387.56	11,042.65	14,194.85	15,915.56	20,809.53
Serpin E1 (a)	36,192.22	23,763.25	36,764.97	36,454.7	25,714.04	38,797.58
Serpin E1 (b)	36,995.86	24,715.96	37,941.28	33,866.34	25,931.15	38,634.75
SHBG (a)	35,062.9	32,288.22	34,419.66	38,209.43	40,391.91	40,647.91
SHBG (b)	35,193.33	32,938.75	34,617.33	37,376.62	39,661.99	40,765.38
ST2 (a)	34,708.06	15,909.08	22,115.46	21,848.92	21,605.89	38,766.8
ST2 (b)	35,595.96	15,280.42	19,803.35	21,790.59	21,298.85	40,306.04
TARC (a)	4,385.03	4,347.76	4,249.73	5,221.08	4,581.08	4,813.58
TARC (b)	4,238.39	4,371.25	4,268.37	4,600.52	4,139.56	4,319.41
TFF-3 (a)	37,903.2	32,803.46	36,916.47	33,532.57	33,399.71	42,076.16
TFF-3 (b)	38,931.25	34,200.92	36,656.42	32,316.57	32,713.53	42,152.32
TfR (a)	8,589.58	6,511.61	9,298.44	8,067.05	10,470.7	13,206.49
TfR (b)	8,161.84	7,329.03	9,261.18	8,732.97	10,000.82	13,151.41
TGF-alpha (a)	3,949.99	3,910.29	4,101.48	4,034.24	4,338.85	3,990.49
TGF-alpha (b)	3,864.92	3,996.97	3,745.84	3,865.73	3,974.29	3,968.62
Thrombospondin-1 (a)	4,435.25	5,100.37	4,409.33	6,684.97	5,485.18	5,276.16
Thrombospondin-1 (b)	4,881.63	5,009.63	4,615.91	6,491.35	5,996.37	5,273.73
TNF alpha (a)	5,760.62	5,607.51	4,503.3	6,394.14	5,771.15	4,923.76
TNF alpha (b)	6,222.39	6,630.7	4,880.82	7,233.43	7,845.89	6,816.22
uPAR (a)	19,002.95	8,170.75	10,615.71	11,935.41	11,684.27	26,396.97
uPAR (b)	18,230.09	7,806.19	9,293.58	12,140.37	9,696.22	25,731.86
VEGF (a)	4,252.97	4,357.48	4,556.77	4,261.89	4,148.47	5,153.03
VEGF (b)	4,269.18	4,482.24	4,497.63	4,239.2	3,846.29	5,170.85
Vitamin D BP (a)	50,776.92	48,411.35	51,728.82	51,765.28	33,650.85	53,288.32
Vitamin D BP (b)	49,500.16	47,619.05	51,398.29	51,286.49	32,974.39	55,137.03

Note: BAFF: B cell activating factor; BDNF: brain-derived neurotrophic factor; BP: binding protein; EGF: epidermal growth factor; FGF: fibroblast growth factor; G-CSF: granulocyte-colony stimulating factor; GDF: growth differentiation factor; GM-CSF: granulocyte-macrophage colony-stimulating factor; GRO alpha: growth-regulated alpha protein; HGF: hepatocyte growth factor; ICAM-1: intercellular adhesion molecule 1; IFN: interferon; IGF1BP: insulin-like growth factor-binding protein; IL: interleukin; I-TAC: interferon-inducible T cell alpha chemoattractant; LIF: leukemia inhibitory factor; MCP: monocyte chemotactic protein; M-CSF: macrophage colony-stimulating factor; MIF: macrophage migration inhibitory factor; MIP: macrophage inflammatory protein; MMP: matrix metalloproteinase; PDGF: platelet-derived growth factor; RAGE: receptor for advanced glycation endproducts; RANTES: regulated on activation, normal T cell expressed and secreted; RBP: retinol-binding protein; SDF: stromal cell-derived factor; SHBG: sex hormone-binding globulin; TARC: thymus and activation regulated chemokine; TFF: trefoil factor; TfR: transferrin receptor; TGF: transforming growth factor; TNF: tumor necrosis factor; uPAR: urokinase-type plasminogen activator receptor; VEGF: vascular endothelial growth factor.