

## Supplemental Online Content

Diniz BS, Mulsant BH, Reynolds CF III, et al. Association of molecular senescence markers in late-life depression with clinical characteristics and treatment outcome. *JAMA Netw Open*. 2022;5(6):e2219678. doi:10.1001/jamanetworkopen.2022.19678

**eTable 1.** Comparison Between Individual SASP Factors Between Nonremission vs Remission Groups

**eTable 2.** Logistic Regression of Each Individual SASP Factor to Predict Treatment Outcome

This supplemental material has been provided by the authors to give readers additional information about their work.

eTable 1. Comparison Between Individual SASP Factors Between Nonremission vs. Remission Groups

	Whole sample			Unadjusted							Adjusted*		
				Treatment outcome									
	SASP index weight	Mean	SD	Remission	Treatment resistance	Mean	SD	t	df	Sig.	F	df	sig
IL-6	0.364	2.03	0.44	1.98	0.48	2.07	0.41	-1.98	414	0.05			
gp130	0.403	16.47	0.70	16.48	0.40	16.47	0.85	0.03	414	0.97			
IL-8	0.47	2.96	0.73	2.90	0.74	3.00	0.72	-1.29	414	0.20			
uPAR	0.583	9.81	0.58	9.82	0.54	9.81	0.61	0.27	414	0.79			
MIF	0.304	10.99	1.10	11.00	1.23	10.97	1.01	0.28	414	0.78			
MCP-1	0.35	8.36	0.71	8.30	0.68	8.40	0.73	-1.52	414	0.13			
Osteoprotegerin	0.565	9.96	0.45	9.95	0.46	9.97	0.45	-0.47	414	0.64			
IL1b	0.536	3.04	0.45	3.00	0.50	3.08	0.41	-1.78	414	0.08			
<b>MIP-3<math>\alpha</math></b>	<b>0.481</b>	<b>4.18</b>	<b>1.90</b>	<b>3.94</b>	<b>1.98</b>	<b>4.36</b>	<b>1.83</b>	<b>-2.22</b>	<b>414</b>	<b>0.03</b>	0.93	6,407	0.33
MIP-1 $\alpha$	0.572	5.43	1.48	5.41	1.53	5.44	1.45	-0.22	414	0.83			
MIP-1 $\beta$	0.556	8.99	0.23	8.98	0.27	8.99	0.20	-0.51	414	0.61			
MCP-4	0.347	7.29	0.67	7.25	0.69	7.32	0.66	-1.09	414	0.27			
GMCSF	0.466	0.14	1.04	0.07	1.15	0.19	0.95	-1.12	414	0.26			
ICAM-1	0.416	18.20	0.85	18.21	0.94	18.19	0.77	0.27	414	0.78			
<b>TNFRII</b>	<b>0.612</b>	<b>11.38</b>	<b>0.60</b>	<b>11.30</b>	<b>0.62</b>	<b>11.43</b>	<b>0.59</b>	<b>-2.21</b>	<b>414</b>	<b>0.03</b>	0.29	6,407	0.59
TNFRI	0.719	10.65	0.69	10.58	0.72	10.70	0.65	-1.75	414	0.08			
PLGF	0.211	2.15	1.57	2.05	1.65	2.23	1.50	-1.13	414	0.26			
GRO- $\alpha$	0.169	5.80	1.89	5.60	1.84	5.94	1.93	-1.80	414	0.07			
IGFBP-2	-0.104	15.45	2.41	15.54	2.41	15.38	2.41	0.65	414	0.52			
TIMP-1	-0.219	12.40	2.45	12.58	2.46	12.26	2.45	1.28	414	0.20			
IGFBP-6	-0.185	17.38	0.83	17.32	0.73	17.42	0.89	-1.27	414	0.20			

Angiogenin	-0.364	18.01	0.91	17.98	0.91	18.03	0.90	-0.58	414	0.57			
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All biomarkers data is  $\log_2$  transformed.

\*Adjusted by self-reported male sex, MADRS scores, duration of depressive episode, diastolic blood pressure levels.

eTable 2. Logistic Regression of Each Individual SASP Factor to Predict Treatment Outcome

	Unadjusted				Adjusted*			
	OR	CI <sub>95%</sub>		p-value	OR	CI <sub>95%</sub>		p-value
		Lower	Upper			Lower	Upper	
IL6	1.39	0.79	2.44	0.25	-	-	-	-
gp130	1.02	0.70	1.48	0.94	-	-	-	-
IL 8	1.12	0.82	1.52	0.48	-	-	-	-
uPAR	0.88	0.56	1.36	0.56	-	-	-	-
MIF	0.94	0.78	1.14	0.54	-	-	-	-
MCP1	1.21	0.89	1.67	0.23	-	-	-	-
Osteoprotegerin	0.79	0.46	1.34	0.37	-	-	-	-
IL1b	1.52	0.78	2.94	0.22	-	-	-	-
MIP3a	1.08	0.96	1.22	0.18	-	-	-	-
MIP1a	1.03	0.90	1.19	0.72	-	-	-	-
MIP1b	0.44	0.12	1.60	0.22	-	-	-	-
MCP4	1.02	0.72	1.43	0.93	-	-	-	-
GMCSF	1.09	0.88	1.35	0.44	-	-	-	-
ICAM1	0.93	0.73	1.19	0.56	-	-	-	-
TNFR2	1.30	0.82	2.08	0.27	-	-	-	-
TNFR1	1.03	0.72	1.49	0.85	-	-	-	-
GROa	1.08	0.89	1.31	0.43	-	-	-	-
PLGF	1.08	0.96	1.23	<b>0.21</b>				
<b>IGFBP2</b>	1.28	1.01	1.63	<b>0.04</b>	1.00	0.92	1.09	0.95
TIMP1	0.84	0.66	1.05	0.13	-	-	-	-
IGFBP6	1.01	0.63	1.63	0.96	-	-	-	-
Angiogenin	1.06	0.70	1.63	0.78	-	-	-	-

\* Adjusted by self-reported male sex, MADRS scores, and scores on cognitive inhibition and set-shifting tasks.