

Table SI. Differentially expressed genes associated with Henoch-Schönlein purpura (HSP) patients. Log₂ fold changes are described in relation to the respective gene expression in normal skin

Gene	Description	Function	Log ₂ fold change	p-value	Confidence intervals	Related vasculitis disorder	Reference
Upregulated genes							
<i>CCL26</i>	C-C motif chemokine ligand 26	Chemokine for eosinophils & basophils	1.053	2.30E-02	(0.307, 1.80)	Elevated CCL26 in EGPA patients	3
<i>CFP</i>	Complement factor properdin	Positive regulator of alternative complement pathway	0.705	3.01E-02	(0.130, 1.28)	Elevated CFP levels in AAV patients in remission	7
<i>LGALS3</i>	Galectin-3	Galactose-specific lectin which binds IgE	0.639	1.88E-04	(0.367, 0.911)	Elevated serum galectin-3 in Behcet's disease	8
<i>STAT 6</i>	Signal transducer and activator of transcription 6	Transcription factor, activates IL-3 & IL-4 pathway	0.287	2.45E-03	(0.142, 0.431)	Not known	
Downregulated genes							
<i>ARG2</i>	Arginase 2	Nitric oxide and polyamine metabolism	-0.67	1.64E-02	(-1.12, -0.217)	Not known	
<i>CTLA4_all</i>	Cytotoxic T-lymphocyte associated protein 4	Inhibitory receptor, negatively regulates T cell responses	-1.1	4.31E-02	(-1.94, -0.257)	Polymorphism on CTLA-4 allele linked with AAV	4
<i>CXCR6</i>	C-X-C motif chemokine receptor 6	Receptor for CXCL16, found on T and NKT cells	-1.015	4.85E-02	(-1.82, -0.213)	CXCL16 upregulated in acute HSP patients	9
<i>DPP4</i>	Dipeptidyl peptidase 4	Positive regulator of T cell co-activation	-0.872	3.88E-02	(-1.54, -0.207)	Sitagliptin-associated vasculitis	10
<i>ETS1</i>	ETS proto-oncogene 1, transcription factor	Controls cytokine and chemokine genes	-0.587	2.83E-02	(-1.00, -0.174)	Polymorphism on allele 7 associated with vasculitis in SLE patients	11
<i>GBP1</i>	Guanylate binding protein 1	Induced by interferon, hydrolyses GTP	-1.621	4.81E-02	(-2.88, -0.358)	Part of predictive gene set for MPA treatment	12
<i>IL21R</i>	Interleukin 21 receptor	Receptor for IL21, important for proliferation of T, B and NK cells	-1.018	1.69E-02	(-1.70, -0.338)	Polymorphism associated with Kawasaki disease	13
<i>MALT1</i>	Mucosa associated lymphoid tissue lymphoma translocation gene 1	Enhances BCL10-induced activation of NF-κB	-0.418	7.42E-03	(-0.665, -0.171)	Not known	
<i>PSMB5</i>	Proteasome subunit beta 5	Involved in peptide cleavage	-0.351	1.72E-03	(-0.525, -0.177)	Bortezomib-associated cutaneous vasculitis	14
<i>XBP1</i>	X-Box binding protein 1	Transcription factor that regulates MHC class II genes	-0.353	3.66E-02	(-0.655, -0.050)	Vasculitis reduced in XBP-1 deficient mice	15

EGPA: eosinophilic granulomatosis with polyangiitis; AAV: ANCA-associated vasculitis; SLE: systemic lupus erythematosus; MPA: microscopic polyangiitis.