

SUPPLEMENTAL MATERIAL

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Table S1. Partial list of human platelet receptors and their ligands

Receptor	Example ligands	Proposed involvement	
		Hemostasis	Immunity
<b>Pattern recognition receptors</b>			
CD36	TSP1, oxidized phospholipids, lipopeptides, lipoproteins, long chain fatty acids	x	x
NOD2	Muramyl dipeptide		x
SRB1	Phospholipids, cholesterol ester, lipoproteins, phosphatidylserine	x	x
TLR1 (CD281)	Lipopeptides		x
TLR2 (CD282)	Glycolipids, lipoproteins, HSP70, zymosan, lipotechoic acid		x
TLR3 (CD283)	dsRNA, poly I:C		x
TLR4 (CD284)	LPS, heat shock proteins, HMGB1, fibrinogen, heparan sulfate fragments, hyaluronic acid fragments, nickel		x
TLR6 (CD286)	Lipopeptides		x
TLR7	ssRNA		x
TLR9 (CD289)	Unmethylated CpG		x
<b>Antigen receptors/presentation/ co-stimulation/complement receptors</b>			
CD40L (CD154)	CD40		x
C1qR <sub>p</sub> (CD93)	C1q? (exact ligands unclear)		x
C3aR	C3a		x
C5aR (CD88)	C5a		x
Fc $\alpha$ RI (CD89)	IgA		x
Fc $\epsilon$ RI (CD23)	IgE		x
Fc $\gamma$ RIIIa (CD32)	IgG		x
MHC class I	CD4		x
<b>Chemokine receptors</b>			
CCR1 (CD191)	CCL3, CCL5, CCL7, CCL15		x
CCR3 (CD193)	CCL5, CCL7, CCL11, CCL13, CCL26		x
CCR4 (CD194)	CCL2, CCL3, CCL4, CCL5, CCL17		x
CXCR4 (CD184)	CXCL12		x
CX3CR1	CX3CL1		x
<b>Sialic acid-binding receptors</b>			
Siglec-7	$\alpha$ 2,8-linkage, $\alpha$ 2,6-linkage, $\alpha$ 2,3-linkage		x
Siglec-9	$\alpha$ 2,3-linkage, $\alpha$ 2,6-linkage		x
Siglec-11	$\alpha$ 2,8-linkage		x
<b>Adhesion molecules and ligands</b>			
$\alpha$ <sub>2</sub> $\beta$ <sub>1</sub> /GPIIb-IIIa/VLA-2 (CD49b/CD29)	Collagen	x	
$\alpha$ <sub>2b</sub> $\beta$ <sub>2</sub> /GPIIb-IIIa (CD41/CD61)	Fibrinogen, fibrin, VWF, fibronectin, vitronectin, thrombospondin	x	
$\alpha$ <sub>5</sub> $\beta$ <sub>1</sub> /VLA-5 (CD49e/CD29)	Fibronectin	x	
$\alpha$ <sub>6</sub> $\beta$ <sub>1</sub> /VLA-6 (CD49f/CD29)	Laminin	x	
$\alpha$ <sub>v</sub> $\beta$ <sub>3</sub> (CD51/CD61)	Vitronectin, fibronectin, VWF, prothrombin, thrombospondin, osteopontin	x	
GPIIb-IX-V (CD42)	VWF, P-selectin, $\alpha$ <sub>v</sub> $\beta$ <sub>2</sub> , factor XII, XI, thrombin, C3	x	
ICAM-2 (CD102)	$\alpha$ <sub>v</sub> $\beta$ <sub>2</sub> /LFA-1 (CD11a/CD18)		x
JAM-C/JAM-3	Fc $\gamma$ RIIIa, $\alpha$ <sub>v</sub> $\beta$ <sub>2</sub> /Mac-1 (CD11b/CD18)	x	x
P-selectin (CD62P)	PSGL-1, GPIIb, tissue factor, C3b	x	x
PECAM-1 (CD31)	PECAM-1, collagen, glycosaminoglycans, $\alpha$ <sub>v</sub> $\beta$ <sub>3</sub>	x	x
<b>Thrombosis-regulatory receptors</b>			
CLEC-2	Podoplanin, rhodocytin	x	
Tissue factor/factor III (CD142) (?)	Factor VIIa	x	
GPVI	Collagen	x	
PAR-1	Thrombin	x	
PAR-4	Thrombin	x	
SLAM/SLAMF1 (CD150)	Other SLAM family members, measles virus, OmpC, OmpF	x	x
SLAMF5 (CD84)	SLAM family members	x	
TLT-1	Fc $\epsilon$ RI? (physiological ligands unclear)	x	x
<b>Purinergic and eicosanoid receptors</b>			
A2a (P1 type)	Adenosine	x	x
P <sub>2</sub> X1	ATP	x	x
P <sub>2</sub> Y1	ADP	x	x
P <sub>2</sub> Y12	ADP	x	x
EP <sub>3</sub>	PGE <sub>2</sub>	x	x
IP	PGI <sub>2</sub>	x	?
TP	TXA <sub>2</sub> , PGH <sub>2</sub>	x	x

Table S1. **Partial list of human platelet receptors and their ligands** (*Continued*)

Receptor	Example ligands	Proposed involvement	
		Hemostasis	Immunity
<b>Hormone and metabolic receptors</b>			
5-HT <sub>2A</sub>	Serotonin	x	x
Arginine vasopressin receptors	Vasopressin	x	?
c-mpl (CD110)	Thrombopoietin	?	?
Dopamine receptors	Dopamine	?	?
Insulin receptor (CD220)	Insulin	?	?
Leptin receptor (CD295)	Leptin	?	?
PDGF-R $\alpha$	PDGF	?	?
Platelet-activating factor receptor	Oxidized LDL, PAF	?	x
Tie-1	Angiopoietin	?	?
$\beta_2$ adrenergic receptor	Epinephrine	x	?