



Chemokines: novel targets for breast cancer metastasis.

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New	Human ligand	Chromosome	Mouse ligand	Chromosome	Receptor(s)
CXC Chemokines					
CXCL1	GRO α / MGSA α	4q13.3	GRO//KC	5qE2	CXCR2, CXCR1
CXCL2	GRO β /MGSA β	4q13.3	MIP-2	5qE2	CXCR2
CXCL3	GRO γ	4q13.3	Dcip	5qE2	CXCR2
CXCL4	PF4	4q13.3	PF4	5qE2	CXCR3B
CXCL4V1		4q13.3			
CXCL5	ENA-78	4q13.3	LIX	5qE2	CXCR2
CXCL6	GCP-2	4q13.3			CXCR1, CXCR2
CXCL7	NAP-2	4q13.3	Ppbb	5qE2	CXCR2
CXCL8	IL-8	4q13.3			CXCR1, CXCR2
CXCL9	MIG	4q21.1	MIG	5qE3	CXCR3, CXCR3B
CXCL10	IP-10	4q21.1	IP-10	5qE3	CXCR3, CXCR3B
CXCL11	I-TAC	4q21.1	I-TAC	5qE3	CXCR3, CXCR3B, CXCR7
CXCL12	SDF-1 α/β	10q11.21	SDF-1 α/β	6qF1	CXCR4, CXCR7
CXCL13	BLC, BCA-1	4q21.1	BLC, BCA-1	5qE3	CXCR5
CXCL14	BRAK, Bolckine	5q31.1	BRAK, Bolckine	13qB2	Unknown
CXCL15	Unknown		Lungkine	5qE2	Unknown
CXCL16		17p13.2	CXCL16	11qB4	CXCR6
CXCL17	DMC	19q13.2	DMC	7qA3	unknown
CC Chemokines					
CCL1	I-309	17q11.2	TCA-3	11qB5	CCR8
CCL2	MCP-1/MCAF/TDCF	17q11.2	JE	11qB5	CCR2
CCL3	MIP-1 α / LD78 α	17q11.2	MPI-1 α	11qB5	CCR1, CCR5
CCL3L1	LD78 β	17q12			
CCL3L3	LD78 β	17q12			
CCL4	MIP-1 β	17q12	MIP-1 β	11qB5	CCR5
CCL4L1	AT744.2	17q12			
CCL4L2		17q12			
CCL5	RANTES	17q12	RANTES	11qB5	CCR1, CCR3, CCR5
CCL7	MCP-3	17q11.2	MARC	11qB5	CCR1, CCR2, CCR3

CCL8	MCP-2	17q11.2	MCP-2, MCP-5	11qB5	CCR1, CCR2, CCR3, CCR5
CCL11	Eotaxin	17q11.2	Eotaxin	11qB5	CCR3
CCL13	MCP-4	17q11.2	unknown		CCR1, CCR2, CCR3
CCL14	HCC-1	17q12	unknown		CCR1
CCL15	HCC-2/ LKN1/ MIP-1 γ	17q12	CCL9, MMRP2, MIP-1 γ	11qB5	CCR1, CCR3
CCL16	HCC-4/ LEC/ LCC-1	17q12	pseudogene	11qB5	CCR1, CCR2, CCR5, HRH4
CCL17	TARC	16q13	TARC	8qC5	CCR4
CCL18	DC-CK 1/ PARC/ AMAC-1	17q12	pseudogene		Unknown
CCL19	MIP-3 β / ELC/exodus-3	9p13.3	MIP-13 β	4qB1	CCR7
CCL20	MIP-3 α / LARC/ exodus-1	2q36.3	MIP- α / LARC	1qC5	CCR6
CCL21	SLC/6CKine/ SLC/ exodus-2	9p13.3	CCL21a, b, C/ SLC	4qB1	CCR7
CCL22	MDC/ STCP-1	16q13	ABCD-1	8qC5	CCR4
CCL23	MPIF/ CK β 8/ CK β 8-1	17q12	CCL6/ C10	11qB5	CCR1
CCL24	Eotaxin-2/ MPIF-2	7q11.23	Eotaxin-2	5qG1	CCR3
CCL25	TECK	19p13.2	TECK	8qA1.2	CCR9
CCL26	Eotaxin-3	7q11.23	CCL26/ Eotaxin-3-like	5qG1	CCR3
CCL27	CTACK/ ILC	9p13.3	CCL27a,b/CTACK/ ILC	4qB1	CCR10
CCL28	MEC	5p12	MEC	13	CCR3, CCR10
C Chemokines					
XCL1	Lymphotactin/ATAC/SCM-1 α	1q24.2	Lymphotactin	1qH2	XCR1
XCL2	SCM-1 β	1q24.2			XCR1
CX₃C Chemokine					
CX ₃ CL1	Fractalkine	16q13	Fractalkine	8qC5	CX3CR1

Table 1. Chemokine and receptor nomenclature.