

Research Field

Apoptosis		Bone and Cartilage Regeneration	Cancer			Cardiovascular	
Activin A	MCSF	BMP-2	Activin A	IL-7	TARC / CCL17	Activin A	MCSF
Artemin	NGF-beta	EGF	BAFF	IL-9	TGF-beta 1	Artemin	Myostatin
BAFF	NRG1-beta	FGF-8	Chemerin	IL-10	TGF-beta 3	BMP-2	Myostatin Propeptide
BMP-2	PDGF-AA	GH	CTGF	IL-11	TNF-alpha	CD40 Ligand	PDGF-AA
CD40 Ligand	PDGF-AB	IGF-1	EGF	IL-12	TPO	CTGF	PDGF-AB
CTGF	PDGF-BB	IGF-2	EG-VEGF	IL-13	TRAIL	EGF	PDGF-BB
EGF	RANK Ligand	Myostatin	Exodus-2 / CCL21	IL-15	VEGF-120	EG-VEGF	RANTES
EG-VEGF	SCF	Myostatin Propeptide	FGF-1	IL-20	VEGF-121	FGF-1	Resistin
FGF-1	SHH	PDGF-AA	FGF-2 (147)	IL-21	VEGF-165	FGF-2 (147)	SHH
FGF-2 (147)	TGF-beta 1	PDGF-AB	FGF-2 (154)	IL-35 Heterodimer	Visfatin	FGF-2 (154)	TGF-beta 1
FGF-2 (154)	TGF-beta 3	PDGF-BB	FGF-4	IP-10 / CXCL10		FGF-4	TGF-beta 3
FGF-4	TNF-alpha	RANK Ligand	FGF-8	ITAC / CXCL11		FGF-8	TNF-alpha
FGF-8	TPO	SHH	FGF-9	Leptin		FGF-9	VEGF-120
FGF-9	TRAIL	TGF-beta 1	FGF-10	MCP-1 / CCL2		FGF-10	VEGF-121
FGF-10	VEGF-120	TGF-beta 3	FGF-21	MCP-2 / CCL8		FGF-21	VEGF-165
FGF-21	VEGF-121	VEGF-120	FGF-22	MCP-3 / CCL7		FGF-22	
FGF-22	VEGF-165	VEGF-121	FLT3 Ligand	MCP-4 / CCL13		Fractalkine	
FLT3 Ligand		VEGF-165	Fractalkine	MIP-1 alpha / CCL3		G-CSF	
Fractalkine			Galectin-1	MIP-1 beta / CCL4		GDNF	
Galectin-1			Galectin-3	MIP-3 alpha / CCL20		IFN-gamma	
Galectin-3			G-CSF	MIP-3 beta / CCL19		IGF-1	
GDNF			GM-CSF	MIP-4 / CCL18		IGF-2	
GM-CSF			IFN-alpha 2a	MCSF		IL-1 alpha	
IGF-1			IFN alpha 2b	NRG1-beta		IL-1 beta	
IGF-2			IFN-gamma	PDGF-AA		IL-6	
IL-4			IGF-1	PDGF-AB		IL-8	
IL-8			IGF-2	PDGF-BB		IL-11	
IL-11			IL-1 alpha	Prolactin		IL-12	
IL-15			IL-1 beta	RANK Ligand		IL-17A	
IL-16			IL-2	SCF		IL-17F	
IL-19			IL-3	SDF-1 alpha / CXCL12a		IP-10 / CXCL10	
IL-21			IL-4	SDF-1 beta / CXCL2b		Leptin	
Leptin			IL-6	SHH		MCP-1 / CCL2	

Research Field

Cell Proliferation	Chemotaxis	Diabetes and Obesity	Immunology	
BAFF	BCA-1	CD30 ligand	Activin A	IL-20
BMP-2	Chemerin	Chemerin	Artemin	IL-21
CD40 ligand	Exodus-2 / CCL21	G-CSF	BAFF	IL-22
CTGF	Fractalkine	IFN-gamma	BCA-1	IL-27 / EBI-3
EGF	Galectin-1	IGF-1	BMP-2	IL-31
EG-VEGF	Galectin-3	IGF-2	CD40 Ligand	IL-33
FGF-1	GRO-alpha / CXCL1	IL-1 alpha	Chemerin	IP-10 / CXCL10
FGF-2 (147)	GRO-beta / CXCL2	IL-1 beta	EGF	ITAC / CXCL11
FGF-2 (154)	GRO-gamma / CXCL3	IL-2	Exodus-2 / CCL21	LIF
FGF-4	GH	IL-3	FGF-1	M-CSF
FGF-8	IL-8	IL-6	FGF-2 (147)	MIP-1 alpha / CCL3
FGF-9	IL-16	IL-10	FGF-2 (154)	MIP-1 beta / CCL4
FGF-10	IP-10 / CXCL10	Leptin	FGF-4	MIP-3 alpha / CCL20
FGF-21	ITAC / CXCL11	LIF	FGF-8	MIP-3 beta / CCL19
FGF-22	MCP-1 / CCL2	MCP-1 / CCL2	FGF-9	MIP-4 / CCL18
FLT3 Ligand	MCP-2 / CCL8	Myostatin	FGF-10	MCP-1 / CCL2
GH	MCP-3 / CCL7	Myostatin Propeptide	FGF-21	MCP-2 / CCL8
GM-CSF	MCP-4 / CCL13	NGF-beta	FGF-22	MCP-3 / CCL7
IGF-1	MIP-1 alpha / CCL3	NT-4	FLT3 Ligand	MCP-4 / CCL13
IGF-2	MIP-1 beta / CCL4	RANK Ligand	Fractalkine	NRG1-beta
IL-1 alpha	MIP-3 alpha / CCL20	Resistin	Galectin-1	PDGF-AA
IL-1 beta	MIP-3 beta / CCL19	TNF-alpha	Galectin-3	PDGF-AB
IL-2	MIP-4 / CCL18	Visfatin	GDNF	PDGF-BB
IL-3	NGF-beta		GH	RANK Ligand
IL-4	RANTES		G-CSF	RANTES
IL-5	SDF-1 alpha / CXCL12a		GM-CSF	SCF
IL-9	SDF-1 beta / CXCL2b		GRO-alpha / CXCL1	SDF-1 alpha / CXCL12a
IL-17F	TARC / CCL17		GRO-beta / CXCL2	SDF-1 beta / CXCL2b
IL-20			GRO-gamma / CXCL3	SHH
IL-27			IFN-gamma	TARC / CCL17
IL-35 Heterodimer			IL-1 alpha	TGF-beta 1
IP-10 / CXCL10			IL-1 beta	TGF-beta 3
LIF			IL-2	TNF-alpha
MCSF			IL-3	TPO
Myostatin			IL-4	TRAIL
Myostatin Propeptide			IL-5	
Prolactin			IL-6	
RSPO1			IL-10	
SCF			IL-11	
TGF-beta 1			IL-12	
TGF-beta 3			IL-13	
TPO			IL-15	
VEGF-121			IL-16	
VEGF-165			IL-17A	
			IL-17F	

Research Field

Inflammation		Neuroscience		Transplantation	Wound Repair
Activin	MCP-1 / CCL2	Activin A	SDF-1 beta / CXCL2b	CD40 Ligand	BCA-1
Artemin	MCP-2 / CCL8	Artemin	SHH	GM-CSF	CTGF
BMP-2	MCP-3 / CCL7	BMP-2	TGF-beta 1	IFN-gamma	CNTF
CD40 Ligand	MCP-4 / CCL13	BDNF	TGF-beta 3	IL-1 alpha	EGF
Chemerin	RELM alpha	CDNF	TNF-alpha	IL-1 beta	Exodus-2
EGF	RELM beta	EGF	NRG1-beta	IL-2	FGF-1
Exodus-2 / CCL21	Resistin	FGF-1	VEGF-120	IL-4	FGF-2 (147)
FGF-2 (147)	TGF-beta 1	FGF-2 (147)	VEGF-121	IL-6	FGF-2 (154)
FGF-2 (154)	TGF-beta 3	FGF-2 (154)	VEGF-165	IL-8	FLT-3 ligand
Fractalkine	TNF-alpha	FGF-4		IL-10	Fractalkine
Galectin-3	VEGF-121	FGF-8		IL-12	GH
GDNF	VEGF-165	FGF-9		IP-10 / CXCL10	GM-CSF
G-CSF		FGF-10		MIP-1 alpha / CCL3	GRO-alpha / CXCL1
GM-CSF		FGF-21		RANTES	GRO-beta / CXCL2
GRO-alpha / CXCL1		FGF-22		TNF-alpha	GRO-gamma / CXCL3
GRO-beta / CXCL2		Fractalkine			IL-1 alpha
GRO-gamma / CXCL3		GDNF			IL-1 beta
IFN-gamma		GRO-alpha / CXCL1			IL-2
IGF-1		GRO-beta / CXCL2			IL-3
IGF-2		GRO-gamma / CXCL3			IL-4
IL-1 alpha		IGF-1			IL-5
IL-1 beta		IGF-2			IL-6
IL-2		IFN-gamma			IL-8
IL-5		IL-1 alpha			IP-10 / CXCL10
IL-6		IL-1 beta			ITAC / CXCL11
IL-7		IL-2			Leptin
IL-10		IL-6			MIP-1 alpha / CCL3
IL-11		IL-8			MIP-1 beta / CCL4
IL-12		IL-10			MIP-3 alpha / CCL20
IL-13		IP-10 / CXCL10			MIP-3 beta / CCL19
IL-15		LIF			MIP-4 / CCL18
IL-16		MIP-1 alpha / CCL3			MCP-1 / CCL2
IL-17A		MIP-1 beta / CCL4			MCP-2 / CCL8
IL-17E		MCP-1 / CCL2			MCP-3 / CCL7
IL-19		MCP-2 / CCL8			MCP-4 / CCL13
IL-20		MCP-3 / CCL7			PDGF-AA
IL-27 / EBI-3		MCP-4 / CCL13			PDGF-AB
IL-31		NGF-beta			PDGF-BB
IL-33		NT-3			NGF-beta
IP-10 / CXCL10		NT-4			RANTES
ITAC / CXCL11		PDGF-AA			SCF
Leptin		PDGF-AB			SDF-1 alpha / CXCL12a
LIF		PDGF-BB			SDF-1 beta / CXCL2b
MIP-1 alpha / CCL3		Pleiotrophin			SHH
MIP-1 beta / CCL4		Prolactin			TARC / CCL17
MIP-3 alpha / CCL20		RANTES			TGF-beta 1
MIP-3 beta / CCL19		RSPO1			TGF-beta 3
MIP-4 / CCL18		SDF-1 alpha / CXCL12a			TPO

Stem Cell Research

Cancer Stem Cells (CSC)	Embryonic Stem Cells (ESC) and induced-Pluripotent Stem Cells (iPSC)	Hematopoietic Stem Cells (HSC)		Mesenchymal Stem Cells (MSC)	Neural Stem Cells (NSC)
EGF	Activin A	Activin A	IL-31	Artemin	Activin A
EG-VEGF	Artemin	BMP-2	Leptin	BMP-2	Artemin
FGF-1	BMP-2	CNTF	LIF	EGF	BMP-2
FGF-2 (147)	FGF-1	EGF	MCSF	FGF-1	EGF
FGF-2 (154)	FGF-2 (147)	FGF-1	Myostatin	FGF-2 (147)	FGF-1
FGF-4	FGF-2 (154)	FGF-2 (147)	NRG1-beta	FGF-2 (154)	FGF-2 (147)
FGF-8	FGF-4	FGF-2 (154)	Oncostatin M	FGF-4	FGF-2 (154)
FGF-9	FGF-8	FGF-4	Prolactin	FGF-8	FGF-4
FGF-10	FGF-9	FGF-8	PDGF-AA	FGF-9	FGF-8
FGF-21	FGF-10	FGF-9	PDGF-AB	FGF-10	FGF-9
FGF-22	FGF-21	FGF-10	PDGF-BB	FGF-21	FGF-10
FLT-3 ligand	FGF-22	FGF-21	RANK ligand	FGF-22	FGF-21
IGF-1	GDNF	FGF-22	RSPO1	Follistatin	FGF-22
IGF-2	IGF-1	FLT-3 ligand	SCF	GDF-5	GDNF
MCSF	IGF-2	G-CSF	SHH	GDF-15	IGF-1
NGF-beta	LIF	GDF-5	TNF-alpha	GDF-15 D	IGF-2
NRG1-beta	TGF-beta 1	GDF-15	VEGF-120	GDNF	LIF
PDGF-AA	TGF-beta 3	GDF-15 D	VEGF-121	Myostatin	PDGF-AA
PDGF-AB		GM-CSF	VEGF-165	IGF-1	PDGF-AB
PDGF-BB		IGF-1		IGF-2	PDGF-BB
SCF		IGF-2		LIF	RSPO1
TGF-beta 1		IL-1 beta		PDGF-AA	SHH
TGF-beta 3		IL-2		PDGF-AB	TGF-beta 1
TPO		IL-3		PDGF-BB	TGF-beta 3
VEGF-120		IL-4		TGF-beta 1	NRG1-beta
VEGF-121		IL-5		TGF-beta 3	VEGF-120
VEGF-165		IL-6		VEGF-120	VEGF-121
		IL-7		VEGF-121	VEGF-165
		IL-9		VEGF-165	
		IL-11			
		IL-15			
		IL-21			

Small Molecules

Embryonic Stem Cells (ESC)	Induced Pluripotent Stem Cells (iPSC)	Hematopoietic Stem Cells (HSC)	Mesenchymal Stem Cells (MSC)	Neural Stem Cells (NSC)	Stem Cell Differentiation	Stem Cell Proliferation
Fasudil HCl	3-Deazaneplanocin A	Garcinol	5-Azacytidine	CHIR99021	5-Azacytidine	Garcinol
Forskolin	5-Azacytidine	Plerixafor	Dexamethasone	Cyclopamine	A769662	ID-8
ID-8	ALK5 Inhibitor II	StemRegenin 1	Forskolin	DAPT	Cyclopamine	IWP-2
IM-12	BIX01294 3HCl H ₂ O		Reversine	Dorsomorphin 2HCl	DAPT	LY29402
IWP-2	CHIR99021		SB216763	Forskolin	Dorsomorphin 2HCl	PD173074
KY0211	Cyclopamine			IM-12	Forskolin	PD98059
LY294002	Forskolin			Irinotecan HCl 3H ₂ O	IM-12	SB203580
PD184352	Go 6983			PD173074	(-)-Indolactam V	SB216763
PD98059	ID-8			Reboxetine Mesylate	IWP-2	SB431542
SB216763	IWP-2			SB203580	KY0211	Y-27632
Stauprimide	KY0211			SB431542	LY411575	
SU5402	LY294002			SU5402	PD173074	
Thiazovivin	PD0325901			TWS119	Purmorphamine	
WH-4-023	Pifithrin mu			Y-27632	Rapamycin	
XAV939	RG108				Rosiglitazone	
Y-27632	SB431542				SP600125	
	Thiazovivin				Stauprimide	
	Trichostatin A				Staurosporine	
	XAV939				TWS119	
					U0126	