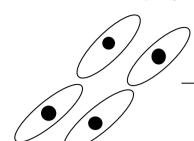
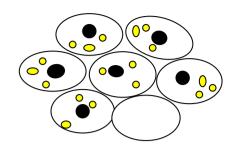
Title: Adipogenesis **Organism:** Canis familiaris

Preadipocyte



Differentiated adipocyte



Inhibitors of Preadipocyte to Adipocyte Transition

DLK1
GATA2
GATA3
GATA4
WNT1
WNT5B
WNT10B
NDN

Transcription Factors/Modulators

MEF2A MEF2B MEF2C MEF2D SREBF1 MBNL1 NCOA1 NR2F1 RORA NRIP1 NCOR1 NCOR2

CEBPA	
СЕВРВ	
CEBPD	
PPARA	
PPARG	
PPARD	
RXRA	
RXRG	
RARA	
NR1H3	
CREB1	

Growth Factors/Hormones

INS
IGF1
NR3C1
GH1
TGFB1
PRLR

Fully Differentiated Adipocyte Markers

GTF3A	
FAS	
SLC2A4	
PLIN	
LPL	
PPARGC1A	
UCP1	
LIPE	

Miscellaneous

BMP1
BMP2
ВМР3
GDF10
BMP4

KLF5
KLF6
KLF7
KLF15

EGR2
EBF1
EPAS1

PCK1
PCK2

FOXO1

FOXC2

SOCS1

SOCS3

TRIB3

NCOA2

FZD1

CNTFR				
LIFR				
IL6ST				
OSM				
CTNNB1				
SMAD3				
DVL1				
HNF1A				
FRZB				
LOC486804				
LOC483120				

R	
ST	
M	
NB1	
AD3	
L1	
-1A	
ZB	
86804	
3120	

		1
	E2F4	
	RBL1	
	RBL2	
	RB1	
	ASIP	
	DDIT3	
	GADD45A	
	GADD45B	
ĺ	HMGA1	

ID3

E2F1

STAT1			LIF
STAT2			MIF
STAT3			MIXL1
STAT5A			CDKN1
STAT5B			SERPINE
STAT6			PTGIS
HIF1A			SCD
CUGBP1			SP1
	_		TWIST:
AHR			SFRP4
CISD1			

WWTR1

Insulin Action Genes

IRS1 IRS2 IRS3L IRS4

Possible Lipodystrophy Genes

BSCL2 LMNA AGPAT2 ZMPSTE24 LPIN1 LPIN2 LPIN3

LEP
ADIPOQ
IL6
TNF
RETN
CFD
ADFP
PNPLA3
AGT
NAMPT
SPOCK1

Adipocyte Secretory Products