

## LIST OF ABBREVIATIONS

-	=	Minus
%	=	Percentage
°C	=	Degree Celsius
µg	=	Microgram
µl	=	Microliter
µM	=	Micromolar
µs	=	microsecond
5-mC	=	5-methylCytocine
6-DMAP	=	6-Dimethylamino purine
ANOVA	=	Analysis of variance
bp	=	Base pair
BSA	=	Bovine serum albumin
BTS	=	Beltsville Thawing Solution
CaCl <sub>2</sub> .2H <sub>2</sub> O	=	Calcium chloride dihydrate
cDNA	=	Complementary deoxyribonucleic acid
Class I	=	Class 1
Class IIa	=	Class 2a
Class IIb	=	Class 2b
Class III	=	Class 3
Class IV	=	Class
CO <sub>2</sub>	=	Carbon dioxide
COCs	=	Cumulus-oocyte complexes
dbcAMP	=	Dibutyl cAMP
DMSO	=	Dimethyl sulfoxide
DNMT1	=	DNA methyltransferase 1
DNMT3A	=	DNA methyltransferase 3 alpha
DNMT3B	=	DNA Methyltransferase 3 Beta
DNMTs	=	DNA methyltransferases
DNMTs	=	DNA methyltransferases
EDTA	=	Ethylenediaminetetraacetic acid
EGF	=	Epidermal growth factor
FBS	=	Fetal bovine serum

## LIST OF ABBREVIATIONS (Continued)

GAPDH	=	Glyceraldehyde-3-phosphate dehydrogenase
GV	=	Germinal vesicle
h	=	Hour
H1	=	Histone 1
H2A	=	Histone 2A
H2B	=	Histone 2B
H3	=	Histone 3
H3K14ac	=	Lysine14 acetylation of Histone3
H3K27me3	=	Lysine 27 trimethylation of Histone
H3K4me3	=	Lysine 4 trimethylation of Histone 3
H3K9	=	Histone 3 Lysine 9
H3K9ac	=	Lysine9 acetylation of Histone3
H3K9me3	=	Lysine9 trimethylation of Histone3
H4	=	Histone 4
H4K8	=	Histone 4 Lysine 8
HAT	=	Histone acetyltransferase
HCG	=	Human chorionic gonadotropin
HDAC	=	Histone deacetylase
HDAC1	=	Histone deacetylase 1
HDAC2	=	Histone deacetylase 2
HDAC3	=	Histone deacetylase 3
HDACi	=	Histone deactylase inhibitors
HEPES	=	4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid
Hoechst 33342	=	Bisbenzimidazole
HSD	=	Honest Significant Difference
ICC	=	Immunocytochemistry
IU	=	The international unit
IVC	=	<i>In vitro</i> culture
IVF	=	<i>In vitro</i> fertilization
IVM	=	<i>In vitro</i> maturation
Kdm	=	Lysine demethylase
LOS	=	Large offspring syndrome
mDPBS	=	Modified Dulbecco's phosphate buffered saline
me	=	Monomethylation

## LIST OF ABBREVIATIONS (Continued)

me2	=	Demethylation
me3	=	Trimethylation
MEK	=	Mitogen-activated protein kinase
MgSO <sub>4</sub> ·7H <sub>2</sub> O	=	Magnesium Sulfate Heptahydrate
MI	=	Metaphase I
MII	=	Metaphase II
mM	=	Milimolar
mm	=	Millimeter
mRNA	=	Messenger ribonucleic acid
N <sub>2</sub>	=	Nitrogen
NaCl	=	Sodium chloride
NANOG	=	Nanog Homeobox
ng	=	Nanogram
NMMII	=	Nonmuscle myosin II
OCT4	=	Homeodomain transcription factor of the POU family
PBS	=	Phosphate-buffered saline
PcG	=	Polycomb group
Pig-FM	=	Pig fertilization medium
PMSG	=	Pregnant mare serum gonadotropin
PN	=	Pronuclear stage
POM	=	Porcine oocyte medium
POU5F1	=	POU Class 5 Homeobox 1
PVP	=	Polyvinylpyrrolidone
PZM-3	=	porcine zygote medium-3
qPCR	=	Quantitative polymerase chain reaction
Reversine	=	2-(4-morpholinoanilino)-6-cyclohexylamino-purine analogue
RNA	=	Ribonucleic acid
SAHA	=	Suberoylanilide hydroxamic acid
SCNT	=	Somatic cell nuclear transfer
SEM	=	Standard error of the mean
SOX2	=	SRY-Box Transcription Factor 2
Suv39H1/2	=	Histone Lysine Methyltransferase of variegation 39H1/2
TCM199	=	Medium 19
Tet	=	Ten-eleven translocation

## LIST OF ABBREVIATIONS (Continued)

TrxG	=	Trithorax group
TSA	=	Trichostatin A
V	=	Voltage
XCI	=	Chromosome inactivation
$\alpha$ MEM	=	Alpha modification