

**Unraveling spermatogenesis:
Gene expression profiling with DNA microarrays
reveals genes critical for germ cell development,
fertilization and stem cell maintenance**

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Abbreviations

aRNA	antisense RNA
AMP	adenosine monophosphate
APS	ammonium persulfate
BSA	bovine serum albumin
cDNA	complementary DNA
col _B	collagen binding
col _{NB}	collagen non-binding
dATP	deoxyadenosine 5'-triphosphate
dCTP	deoxycytidine 5'-triphosphate
dGTP	deoxyguanosine 5'-triphosphate
dTTP	deoxythymidine 5'-triphosphate
DMEM	Dulbecco's modified eagle medium
DMSO	dimethyl sulfoxide
DNA	deoxyribonucleic acid
DTT	dithiothreitol
EDTA	ethylenediaminetetraacetic acid
EGFP	enhanced green fluorescent protein
ES cells	embryonic stem cells
EST	expressed sequence tag
FACS	fluorescence activated cell sorter
FBS	fetal bovine serum
FSH	follicle stimulating hormone
GCS-GFP	germ cell-specific GFP
GFP	green fluorescent protein
HEPA	high-efficiency particulate air
HEPES	N-(2-hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid)
IgG	immunoglobulin G
lam _B	laminin binding
lam _{NB}	laminin non-binding
LH	luteinizing hormone
ME	2-mercaptoethanol
mRNA	messenger RNA
MSC-1	mouse Sertoli cell line 1
PAGE	polyacrylamide gel electrophoresis
PGC	primordial germ cell
PBS	phosphate buffered saline
PCR	polymerase chain reaction
PLC	phospholipase C
qRT-PCR	quantitative real-time PCR
RNA	ribonucleic acid
RPA	ribonuclease protection assay
RT-PCR	reverse transcription-PCR
SAGE	serial analysis of gene expression
SDS	sodium dodecyl sulfate
SEM	standard error of the mean
SSC	saline-sodium citrate
STO	SNL 76/7 STO fibroblasts
TBST	Tris-buffered saline with Tween-20
TE	Tris-EDTA

Abbreviations

TEMED	N,N,N',N'-tetramethylethylenediamine
Tris	tris(hydroxymethyl)aminomethane
tRNA	transfer RNA
UTP	uridine 5'-triphosphate
UV	ultraviolet