Table	1
Labie	-

Human Cell Type	Sample name	Isolation Procedure	Purity (%)	Main Contaminants	Reference
Pachytene Spermatocytes	HSC	Sequential enzymatic digestion and centrifugal elutriation	86	Round spermatic	ls, ¹
Spermatids	HST	Sequential enzymatic digestion and centrifugal elutriation	92	Sperm heads, spermatocytes	1
Rat Coll					
Ки Сен Туре					
Sertoli cells	RSE	Sequential enzymatic digestion	96	Peritubular and meiotic germ ce	l 2 lls
Spermatogonia	RSG	Sequential enzymatic digestion and sedimentation unit gravity	85	Sertoli cell fragments, peritubular cells Leydig cells	3 S,
Pachytene Spermatocytes	RSC	Mechanical dispersion and centrifugal elutriation	90	Early spermatid	ls ⁴
Round Spermatids	RST	Mechanical dispersion and centrifugal elutriation	90	Heads of elongat spermatids, resid bodies, spermatocytes	ed ual 4
Mouse Cell Type					
Sertoli cells	MSE	Sequential enzymatic digestion	>95	Peritubular cells	5
Spermatogonia	MSG	Sequential enzymatic digestion	>85	Fragments of Sertoli- , peritubular and Leydig cells	
Pachytene Spermatocytes	MSC	Sequential enzymatic digestion and sedimentation unit gravity	>82.5	Leptotene and diplotene ⁶ spermatocytes	
Round Spermatids	MST	Sequential enzymatic digestion and sedimentation unit gravity	90 - 95	Heads of elongated spermatids, spermatid residual bodies	
Pooling pattern o human samples	f 7 (F	Total TestisTubulesITT1 and 2)(HTU1 and 2)	Spermatocytes Spe (HSC1 and 2) (HS'		Spermatids HST1 and 2)
Duplicate 1 (5 Patients)	P.	3, 7, 8 and 9 P3 and 7	P1,7 and 8 P1.		P1, 7 and 8
Duplicate 2 (5 Patients)	P4	, 5, 6 and 10 P4 and 6		P10	P2, 6 and 10

References

- 1. Guillaudeux, T. et al. Expression of HLA class I genes in meiotic and postmeiotic human spermatogenic cells. *Biol Reprod* **55**, 99-110 (1996).
- 2. Toebosch, A.M., Robertson, D.M., Klaij, I.A., de Jong, F.H. & Grootegoed, J.A. Effects of FSH and testosterone on highly purified rat Sertoli cells: inhibin alphasubunit mRNA expression and inhibin secretion are enhanced by FSH but not by testosterone. *J Endocrinol* **122**, 757-62 (1989).
- 3. Com, E., Evrard, B., Roepstorff, P., Aubry, F. & Pineau, C. New insights into the rat spermatogonial proteome: identification of 156 additional proteins. *Mol Cell Proteomics* **2**, 248-61 (2003).
- 4. Pineau, C., Syed, V., Bardin, C.W., Jegou, B. & Cheng, C.Y. Germ cellconditioned medium contains multiple factors that modulate the secretion of testins, clusterin, and transferrin by Sertoli cells. *J Androl* **14**, 87-98 (1993).
- 5. Chung, S.S., Mo, M.Y., Silvestrini, B., Lee, W.M. & Cheng, C.Y. Rat testicular N-cadherin: its complementary deoxyribonucleic acid cloning and regulation. *Endocrinology* **139**, 1853-62 (1998).
- 6. Wolgemuth, D.J., Gizang-Ginsberg, E., Engelmyer, E., Gavin, B.J. & Ponzetto, C. Separation of mouse testis cells on a Celsep (TM) apparatus and their usefulness as a source of high molecular weight DNA or RNA. *Gamete Res* **12**, 1-10 (1985).