able 3. Karyotyping analyses

e	Sex	Condition	Passage	number of cells counted	number of abnormal cells*	% abnormal*	TOTAL % abnormal	Count	Karyotype	comments
	XY	S/L	20	10	0	0%	7%	10	40XY	
	XY	S/L	20	10	1	10%		9	40XY	
								1	40XY,+1	
	XY	S/L	20	10	1	10%		9	40XY	
								1	40XY,+mar	marker of unknown origin
	XY	2i/L	10	10	0	0%	0%	10/10	40XY	
	XY	2i/L	10	10	0	0%		9/10	40XY	
								1/10	39X,-Y	
	XY	2i/L	10	10	0	0%		9/10	40XY	
								1/10	39X,-Y	
	XY	2i/L	20	20	20	100%	100%	2/20	42XY,+8,+19	
								3/20	42X,-Y,+8,+19	
								8/20	43XY,+6,+8,+19	
								2/20	42X,-Y,+6,+8,+19	
								2/20	43XY,+iso 6,+8,+19	iso = isochromosome
								1/20	44XY,+Y,+iso 6,+8,+19	iso = isochromosome
								2/20	42X,-Y,+iso 6,+8,+19	iso = isochromosome
	XY	2i/L	20	20	20	100%		20/20	41X,-Y,Rb(Y.6),+6,+8	Rb(Y.6) = robertsonian translocation between the Y chromosome and chromosome 6
	XY	**2i/L	20	20	20	100%		19/20	42XY,T(1F;4E2),+6,+8	T(1F;4E2) = balanced translocation between chromosomes 1 and 4, with breakpoints at band F and E
								1/20	42XY,+6,+8	
	XY	2i/L	20	20	20	100%		17/20	42XY,+6,+8	
								2/20	41X,-Y,+6,+8	
								1/20	43XY,+6,+8,+19	
	XY	S/L+PD	20	20	6	30%	30%	2/20	40X,-Y,+11	
								1/20	40X,-Y,+mar	marker of unknown origin
								1/20	40X,-Y,+15	
								1/20	40X,-Y,+mar1	marker from chromosome 1
								1/20	41X,-Y,+15,+mar1	marker from chromosome 1
								14/20	39X,-Y	
	XY	S/L+CHIR	20	20	2	10%	10%	14/20	40XY	
								4/20	39X,-Y	
								1/20	40X,-Y,+mar	marker of unknown origin
								1/20	40XY,-16,+mar	marker of unknown origin. Clonal with other cell
	XX	S/L	6	10	7	70%	63%	3/10	40XX	
								4/10	40XX,add(13q)	p arm of chromosome 13 has additional material of unknown origin
								1/10	39X,-X,add(13q)	p arm of chromosome 13 has additional material of unknown origin
								1/10	39X,-X	
								1/10	41X,-X,+10,+19	
	XX	S/L	6	10	2	20%		8/10	40XX	
								1/10	39X,-X	
								1/10	40X,-X,+8	
	XX	S/L	6	10	10	100%		10/10	41XX,+13	
	XY	a2i/L	10	10	1	10%	5%	9/10	40XY	
								1/10	41XY,+19	
	XY	a2i/L	10	10	0	0%		10	40XY	
	XY	a2i/L	20	21	2	10%	10%	18/21	40XY	
								1/21	39X,-Y	
								2/21	40XY,+10,-19	
	XY	a2i/L	20	20	2	10%		16/20	40XY	
								2/20	39X,-Y	
								1/20	41XY,+19	
								1/20	40XY,der(1)t(1;12),-12,+mar	abnormal chromosome 1, derivative of a (1;12) translocation, marker is of unknown origin
	XY	PKCi/L	10	10	2	20%	10%	8/10	40XY	
								1/10	39X,-Y, dup(1,E1F)	abnormal chromosome 1 with a duplication of bands E1-F
								1/10	42X, iso(Yq),+8,+16	iso(Yq) = isochromosome Y (q-arm).

	Sex	Condition	Passage	number of cells counted	number of abnormal cells*	% abnormal*	TOTAL % abnormal	Count	Karyotype	comments
	XY	PKCi/L	10	10	0	0%		10/10	40XY	
	XY	PKCi/L	20	20	12	60%	68%	8/20	40XY	
								9/20	40XY,dup(1,E1F)	abnormal chromosome 1 with a duplication of bands E1-F
								2/20	39X,-Y,dup(1,E1F)	abnormal chromosome 1 with a duplication of bands E1-F
								1/20	40XY,der(1)	non clonal abnormal chromosome 1, different than other E1-F duplications seen
	XY	PKCi/L	20	20	15	75%		5/20	40XY	
								4/20	40XY,dup(1,E1F)	abnormal chromosome 1 with a duplication of bands E1-F
								9/20	39X,-Y,dup(1,E1F)	abnormal chromosome 1 with a duplication of bands E1-F
								1/20	40XY,-8,+15	
								1/20	38X,-Y,-3,dup(1,E1F)	abnormal chromosome 1 with a duplication of bands E1-F
FP	XY	2i/L	x+8	20	12	60%	60%	4	39X,-Y	
								3	40X,-Y,+6	
								1	41XY,+6	
								1	41X,-Y,+6,+8	
								1	40X,-Y,+6,mar9	marker derived from chromosome 9
								1	39X,-Y,+6,-10	
								1	41X,-Y,+11,+19	
								2	40X,iso(Y),iso(6)	isochromosomes for both Y and 6
								1	40XY,iso(6)	isochromsome 6
								1	40XY,add(7,8)	add(7,8) = fusion of chromosome 7 and 8.
								4	40XY	
+)	XX	2i/L	16	20	20	100%	100%	13	41X,-X,+6,+8	
								2	42X,-X,+3,+6,+8	
								2	42X,-X,+6,+8,+14	
								2	42X,-X,+6,+8,+15	
								1	43X,-X,+3,+6,+8,+14	
mato+)	XX	2i/L	16	20	19	95%	95%	18	41XX,+8,+mar1	marker derived from chromosome 1
								1	42XX,+8,+16,+mar1	marker derived from chromosome 1
								1	40XX	
+EtOH	XY	S/L	15	10	0	0%	0%	9	40XY	
								1	39X,-Y	
+EtOH	XY	S/L	15	10	0	0%		10	40XY	
+4-OHT	XY	S/L	15	10	0	0%	0%	10	40XY	
+4-OHT	XY	S/L	15	10	0	0%		8	40XY	
								2	39X,-Y	

ercentage of abnormal cells, we did not count -Y as abnormal if it was the only abnormality. In our experience, Y is commonly unstable regardless of culture conditions
ultured in 2i/L without MEF feeder cells for 16 passages (final passage 20).

analysis of every cell line and the duration for which the cells were cultured in indicated
ndicates the number of cells that were counted/karyotyped.