Figure 1: Day 6 blastocyst

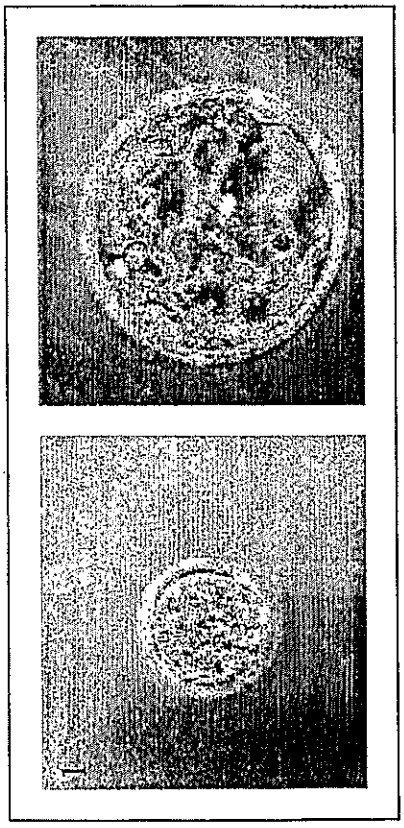
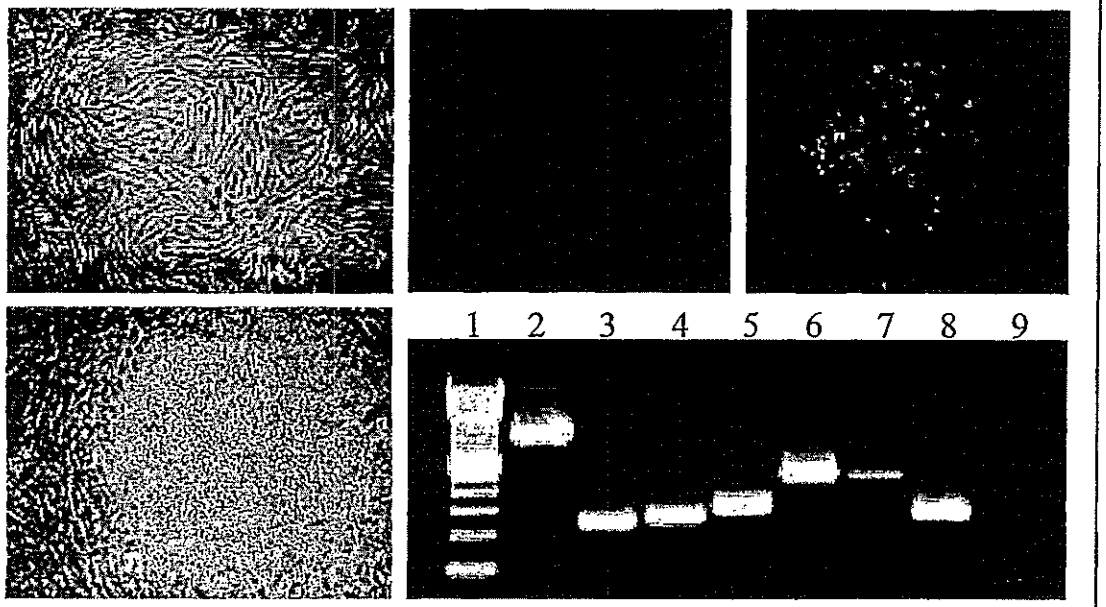
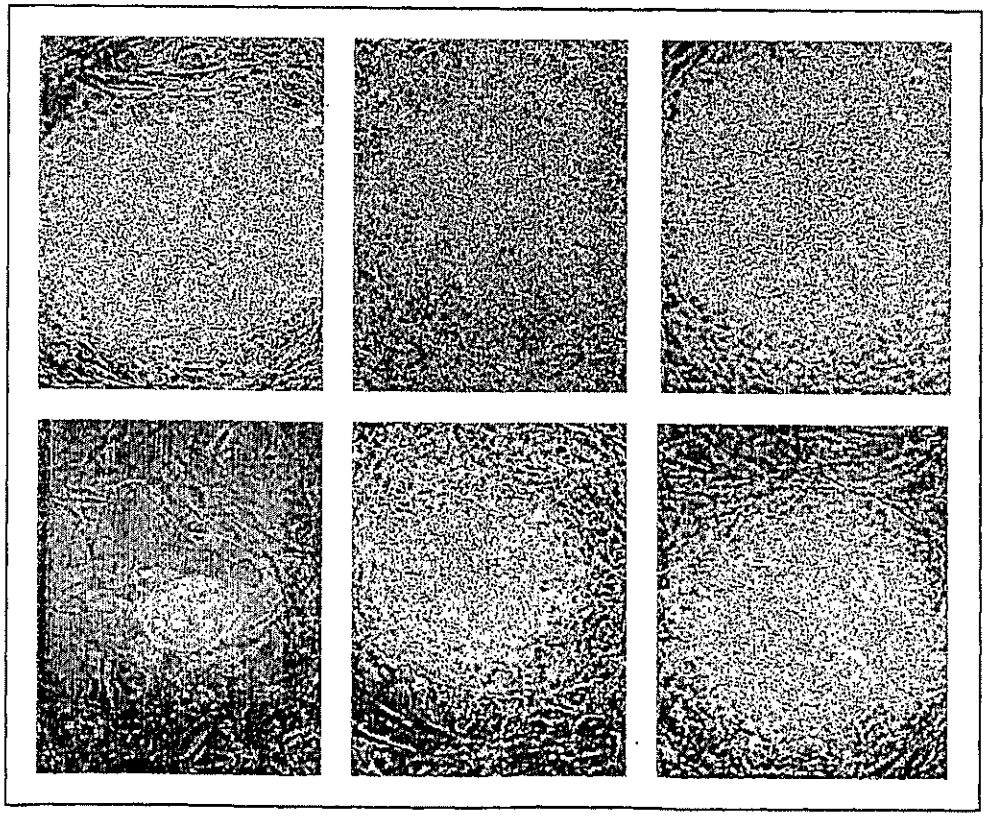


Figure 2: Qualification of MEF to grow ReliCell™hES1



Panel 1: 80% confluent MEF
Panel 2: hESC colony on MEF for morphological analysis
Panel 3: Oct-3/4 staining of hESC on MEF
Panel 4: SSEA-4 staining of hESC on MEF
Panel 5: RT-PCR analysis of GAPDH, Oct-4, Nanog, Rex1, TDGF1, Sox-2, Thy1 and FGF4 genes

Figure 3: Morphology of ReliCell™hES1 at progressive days of plating

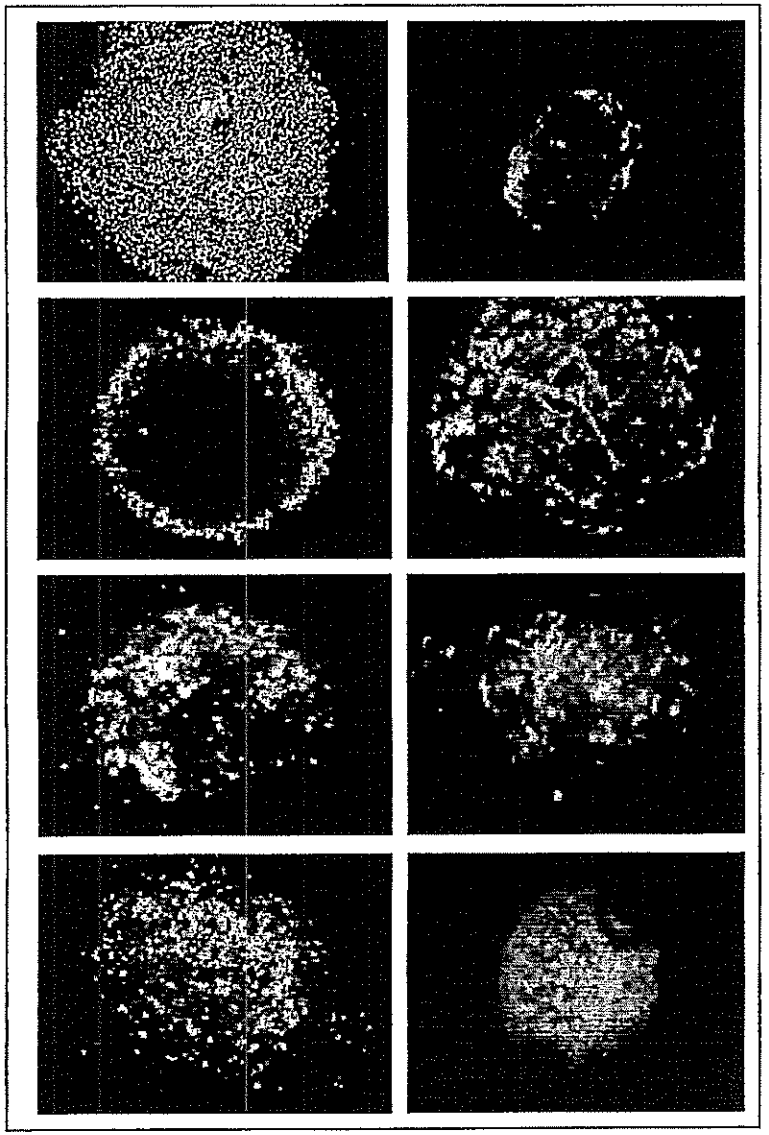


Panel 1: Day 1 of plating
Panel 2: Day 4 of plating
Panel 3: Day 5 of plating
Panel 4: Day 6 of plating
Panel 5: Day 8 of plating
Panel 6: Day 12 of plating

Figure 4: Morphology of ReliCell™hES1 at increasing days of propagation by manual passaging

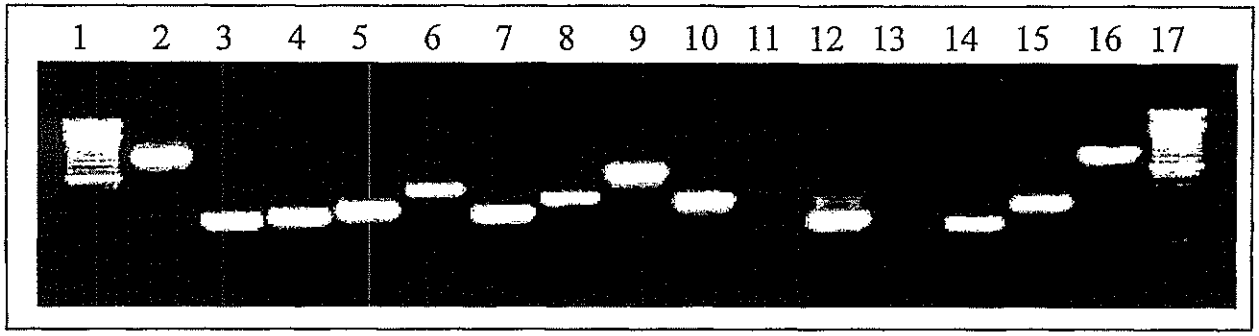
Panel 1: At passage 10
Panel 2: At passage 15
Panel 3: At passage 20
Panel 4: At passage 30

Figure 5: Immunofluorescence analysis of ReliCell™hES1 using ES cell markers



Panel 1: Oct3/4
Panel 2: SSEA-3
Panel 3: SSEA-4
Panel 4: Tra-1-60
Panel 5: Tra-1-81
Panel 6: Connexin-43
Panel 7: E-cadherin
Panel 8: Alkaline phosphatase

Figure 6: Gene expression profiling of ReliCell™hES1 with ES cell markers



Lane 1: 100bp Standard
Lane 2: GAPDH (892bp)
Lane 3: Oct-4 (247bp)
Lane 4: Nanog (262bp)
Lane 5: Rex1 (306bp)
Lane 6: Sox2 (448bp)
Lane 7: Thy (272bp)
Lane 8: FGF4 (370bp)
Lane 9: ABCG2 (684bp)
Lane 10: Dppa5 (353bp)
Lane 11: UTF1 (230bp)
Lane 12: Cripto1 (217bp)
Lane 13: FoxD3 (165bp)
Lane 14: hTERT (187bp)
Lane 15: Connexin-43 (295bp)
Lane 16: Connexin-45 (819bp)
Lane 17: 100bp Standard

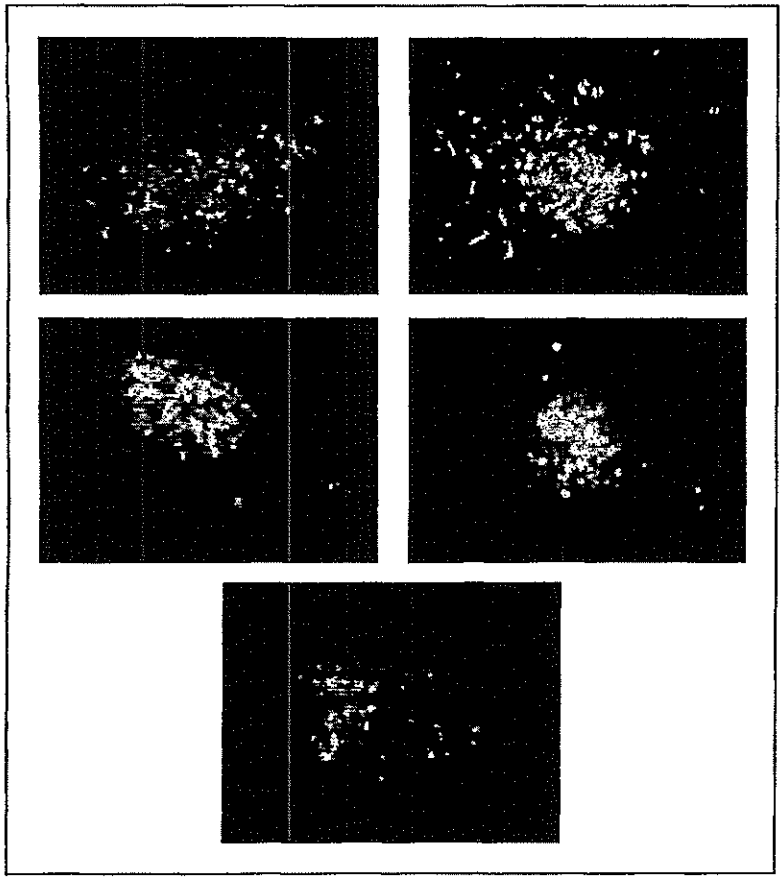
Figure 7: Teratoma analysis : (A) Low power view of teratoma from cell line RelicellhES1 (B) Derivative of the endoderm : Intestinal Epithelium. (C & D) Derivative of ectoderm : Neural tissue. (E-F) Derivatives of mesoderm : Blood cells and Bone. Scale bars: 100um

Figure 8: Telomerase assay of ReliCell™hES1cell line using SYBR Green staining

Figure 9: Different steps of embryoid body formation from ReliCell™hES1 cells

Panel 1: At day 6 of suspension culture
Panel 2: At day 10 of suspension culture
Panel 3: At day 14 of suspension culture
Panel 4: At day 21 of suspension culture

Figure 10: Immunochemistry of ReliCell™hES1 EBs with lineage specific antibodies



Panel 1: Nestin (ectoderm)
Panel 2: Smooth muscle action (mesoderm)
Panel 3: Brachyury (mesoderm)
Panel 4: AFP (endoderm)
Panel 5: GATA-4 (endoderm)

Figure 11: RT-PCR analysis of ReliCell™hES1 with lineage specific markers

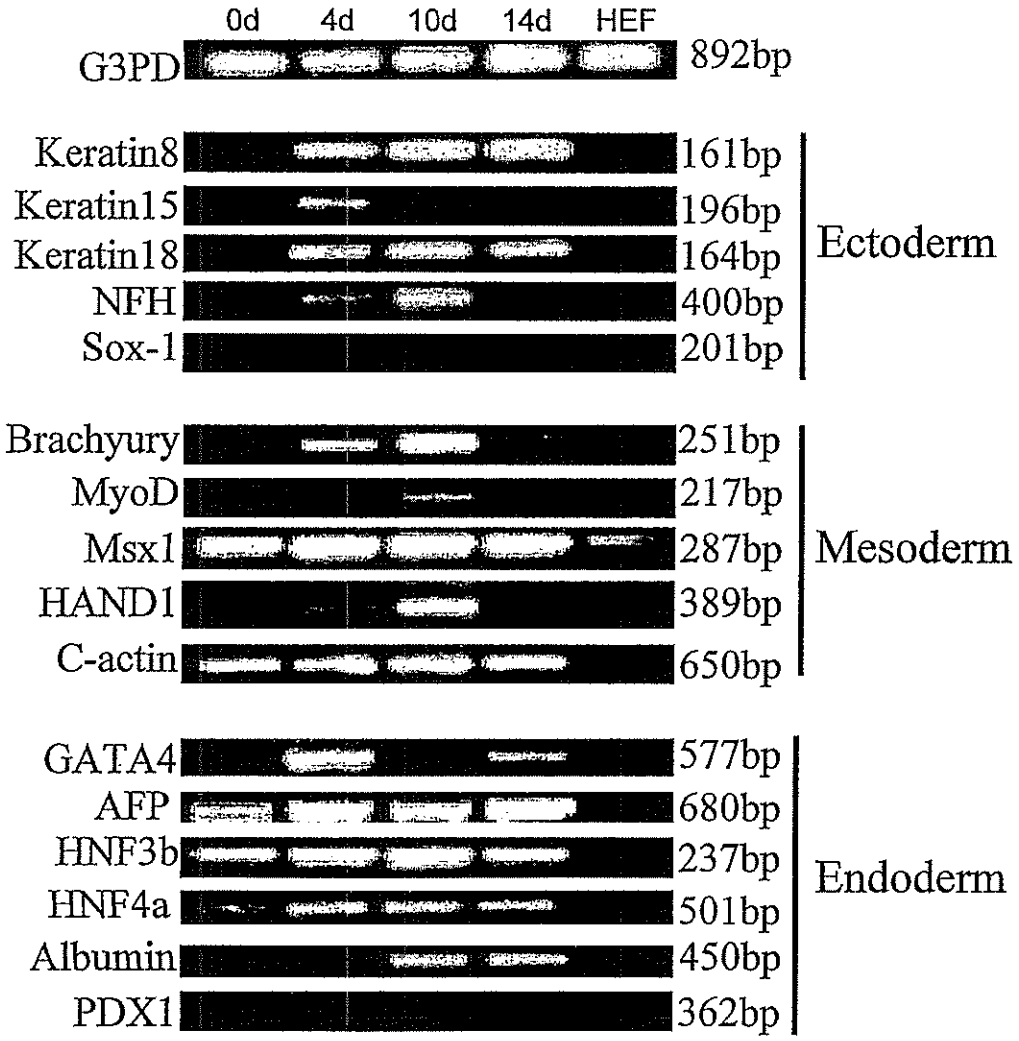


Figure 12: Differentiation of ReliCell™hES into multiple phenotypes

Panel 1: Neuronal cells
Panel 2: MAP-2
Panel 3: Cardiomyocytes
Panel 4: alpha-actinin
Panel 5: Pancreatic islet-like cluster
Panel 6: PDX-1
Panel 7: Hepatocyte-like cells
Panel 8: CK-18

Figure 13 Time dependent effect of CCl4 on HepG2

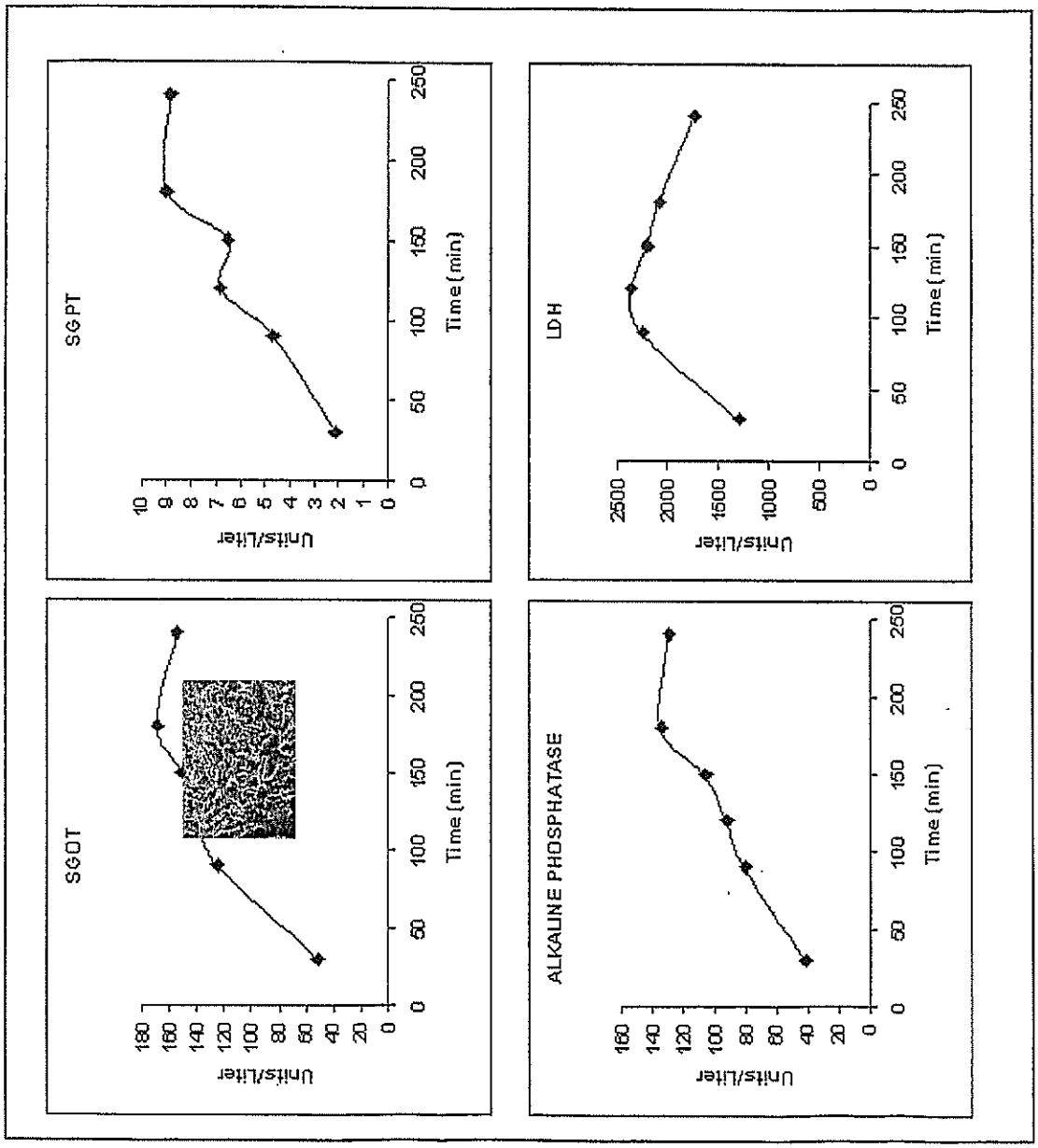


Figure 14 CCl4 induced release of SGOT, SGPT, LDH and ALP from hepatocytes differentiated from mouse ES cells

