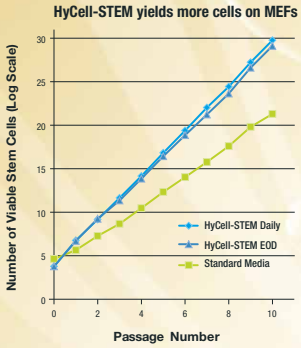
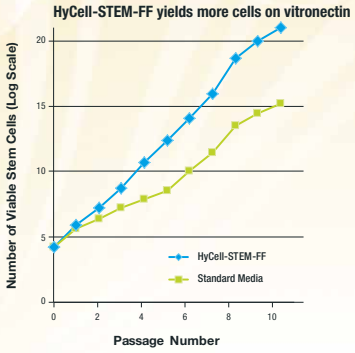
為表觀遺傳學細胞分化研究奠定穩固的基石-幹細胞培養新法寶

HyCell-STEM 和 HyCell-STEM-FF media supplement
讓 iPSC 和 hESC 培養的三個願望一次滿足

Thermo SCIENTIFIC

第一個願望：希望幹細胞長得更快

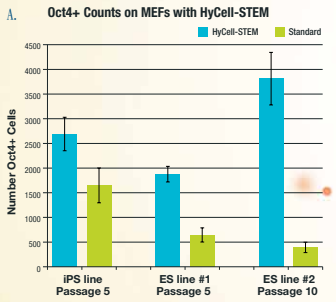


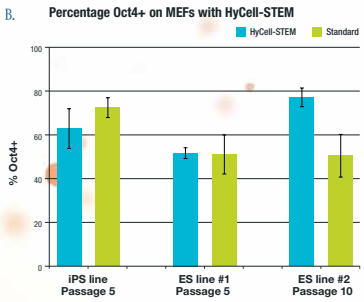


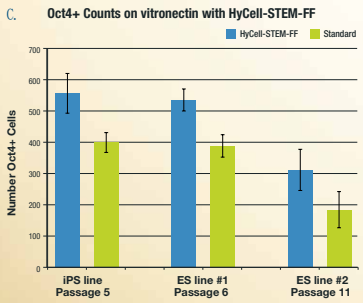
培養於HyCell-STEM (Feeder system)和HyCell-STEM-FF 使hESC及iPSC的生長速率顯著增加。

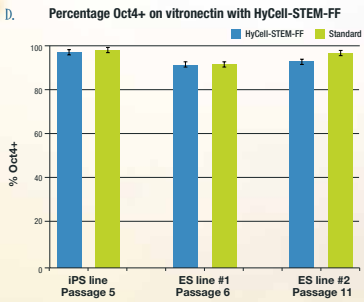
經過10代繼代之後，隔天換培養液 (every other day; EOD) 的HyCell-STEM產出的幹細胞數量為每天更換的傳統培養液的八倍。經過10代繼代之後，HyCell-STEM-FF產出的幹細胞數量為其他系統的6倍。

第二個願望：希望細胞長的快之下，仍能維持幹細胞表徵









快速生長多代後，培養於HyCell-STEM和HyCell-STEM-FF的hESC和iPSC仍具有幹細胞表徵

以HyCell-STEM培養於MEF feeder layers (A, B)和以HyCell-STEM-FF培養於 vitronectin (C, D)的細胞，OCT4+數量和比例皆高於或近似於以市面上主要產品培養的結果。說明HyCell-STEM培養系統下，快速生長的都仍是胚胎幹細胞。

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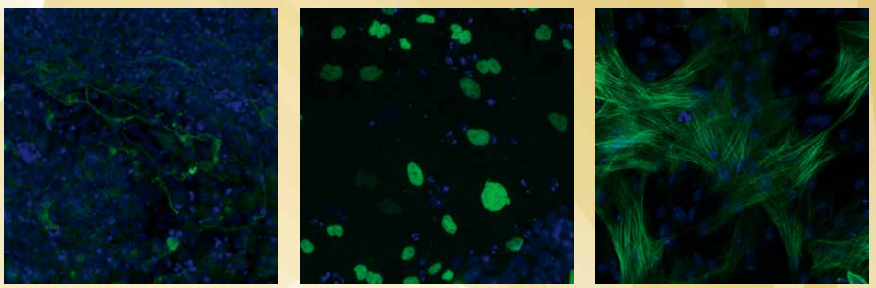
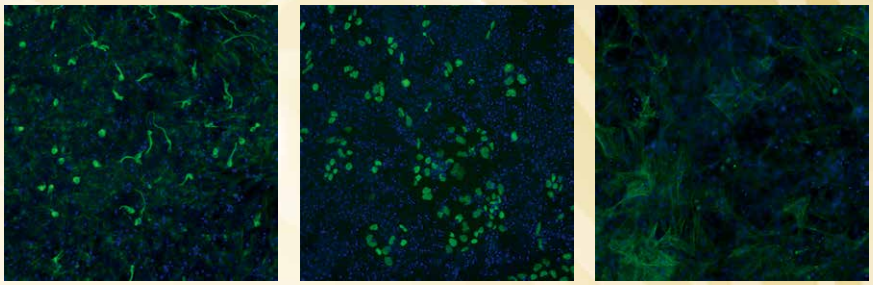
第三個願望：希望幹細胞保有全能性



Directed differentiation of ESCs grown in HyCell-STEM on feeder layers

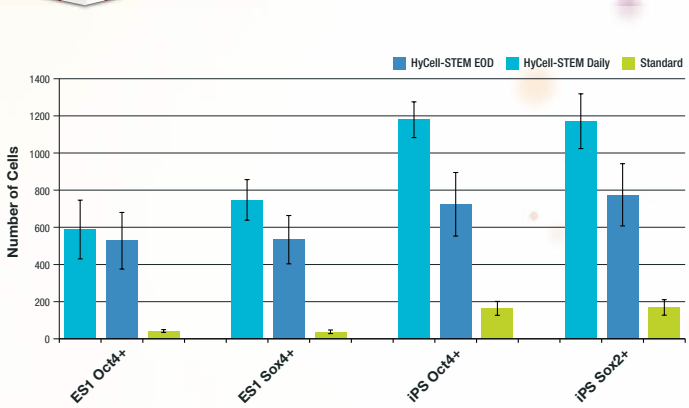


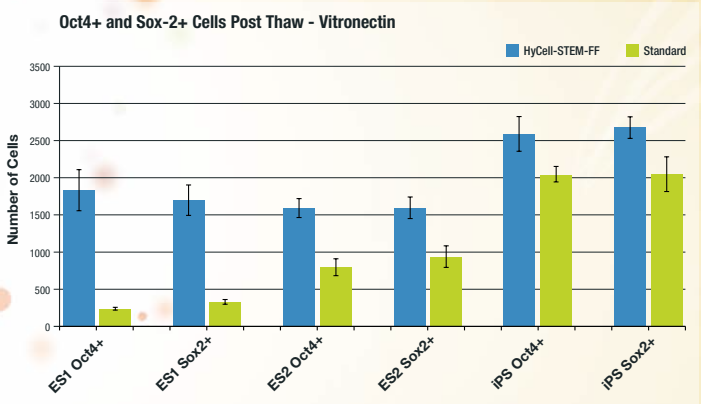
Directed differentiation of iPSCs grown in HyCell-STEM-FF on vitronectin

培養於HyCell-STEM 和 HyCell-STEM-FF的幹細胞在多代之後仍具有幹細胞全能性

以HyCell-STEM培養10代繼代後的hESCs (上圖)和以HyCell-STEM-FF培養 5代繼代後的iPSC(下圖)皆仍具有可以分化成三個胚層的能力。細胞分化的能力以 β3- tubulin (ectoderm), FoxA2 (endoderm) 和 SMA (mesoderm)免疫染色表現

讓願望不終結：凍存細胞下次用





解凍後培養於HyCell-STEM和HyCell-STEM-FF的細胞，幹細胞回收率顯著提升
(本實驗搭配Hycryo-STEM 幹細胞冷凍保存液)

商品資訊

Catalog Number	Product Description	Size
SR30003.KT	HyCell-STEM media kit (Feeder layer)	600 ml kit
SR30004.KT	HyCell-STEM-FF media kit (Feeder free)	600 ml kit
SR30003.01	HyCell-STEM 6x supplement	100 ml
SR30004.01	HyCell-STEM-FF 6x supplement	100 ml
SR30023.01	DMEM/F12 with L-Glutamine and HEPES	500 ml
SR30002.02	HyCryo-Stem Cryopreservation media for stem cells	100 ml

Media kits contain HyCell-STEM or HyCell-STEM-FF 6x supplement and DMEM/F12.
bFGF (10 ng/ml) must be added to the media at time of use.