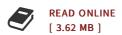




Fabricating Brain Tissue by growing Stem Cells on Coral Skeletons

By Baranes, Danny

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Stem cells convert into neurons and glia when cultivated on three-dimensional aragonite crystalline matrix | The brain has a limited ability to recover frominjury; however, the discovery of stem cells that candifferentiate into neural cells neurons and glia -creates conditions for generation of new cells toreplace the damaged tissue. We have developed amethod to facilitate achievement of this longsought-after goal - cultivating stem cells on coralskeleton adjacent to cultures of primary neuralcells. The coralline skeleton is a highly adhesiveporous scaffold made of crystalline aragonite and isunique in its ability to nurture cells with calcium. Growing stem cells on this scaffold in closeproximity to a layer of neural cells enhances thesecell's durability and differentiation to neurallineages. The enhancement is due to the combinationof growth of the stem cells in three-dimensions, their chemical interaction with the aragonitecrystals and their reaction to inducing factorssecreted by the primary neural cells. This novelnervous tissue engineering strategy can significantlycontribute to our capability to promote regeneration in the central nervous system following trauma, stroke and neurodegenerative diseases. | Format: Paperback | Language/Sprache: english | 60 pp.



Reviews

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