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From cells to societies : models of complex coherent ...
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From Cells to Societies : Models of Complex Coherent ...
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Mathematical MetaModel for HIV - From Cell to Society
This work is a collaboration among David Hughes, an expert of animal behavior and parasites, Ephraim Hanks, an expert on models of animal behavior, Danny Chen, a computer scientist expert in 3D models of cells, Francesco Costanzo, a theoretical mechanical expert in physical diffusion models and Tony Huang, an engineer expert in micro-acoustic ...

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Scientists Create Immature Human Eggs From Stem Cells The researchers placed human embryonic stem cells into dishes containing a gel and added a protein to coax the cells into organizing themselves...

Scientists Make Model Embryos From Stem Cells To ... - NPR
A joint training opportunity between the Division of Biology & Biomedical Sciences and the Division of Public Health Sciences at Washington University School of Medicine in St. Louis, the Cell to Society Pathway brings rigorous training in biology, genomics, epidemiology and biostatistics together to establish new leaders in biological and quantitative population sciences.

Cell to Society Pathway | Public Health Sciences Division ...
In 3D vertex models, cells are polyhedrons that are described by vertices in 3D space [2, 41 – 44] (figure 1 f), and all cells are enclosed by triangulated surfaces. In 3D vertex models for epithelia, each cell has distinct apical and basal surfaces, and is connected to its neighbours by lateral interfaces [2, 43 – 45].

Vertex models: from cell mechanics to ... - The Royal Society
Societies primarily focused on educational channels through which the tenets of Methodism were presented. These tenets were taught in a large classroom setting primarily through lecture, preaching, public reading, hymn singing, and 'exhorting.' In societies, people sat in rows, women and men separated, where they listened to a prepared lecture.

John Wesley's Small Groups: Models of Christian Community ...
A unique approach to human behavior that integrates and interprets the latest research from cell to society Incorporating principles and findings from molecular biology, neuroscience, and psychological and sociocultural sciences, Human Behavior employs a decidedly integrative biosocial, multiple-levels-of-influence approach. This approach allows students to appreciate the transactional forces ...

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The Society-to-Cells Model of Resilience in Older Adults ... In this study, we propose a society-to-cells theory as a lens through which researchers can understand health disparities and potential interventions at six different levels, from macro to micro. Although considerable work has been devoted to " successful aging " and " healthy ...

The Society-to-Cells Model of Resilience in Older Adults ...
The mathematical models described here range from (systems of) partial differential equations (PDEs) to cellular models where individual cells are treated. The cellular models can even be focused to the microscale, where single-cell deformation is considered or processes are modelled at a subcellular level.

Review on experiment-based two- and three-dimensional ...
Our group is developing induced pluripotent stem cell (iPSC) models of myeloid malignancies, including MDS, MPN and AML. We are generating iPSCs from the bone marrow or blood of patients, which can be maintained indefinitely as pluripotent cell lines and, upon in vitro differentiation along hematopoietic lineages, exhibit hallmark features of these diseases.

Induced Pluripotent Stem Cells to Model Blood Diseases ...
The stem cell-based models could additionally be used to interrogate other signaling pathways and developmental events such as those with the interacting cells of the NVU. 116,117,256 Moreover, with the hPSC system, it would also be possible to model diseased NVU phenotypes using endothelial and neural cells derived from patient-specific iPSCs ...

In vitro models of the blood–brain barrier: An overview of ...
During her treatment at the hospital, samples of cancerous tissue were taken from her cervix. These cells went on to become the immortal cell line known as HeLa. Over the following years, HeLa cells have enabled scientists around the world to make great leaps in science and medicine. This list highlights five of these remarkable contributions. 1.

5 Contributions HeLa Cells Have Made to Science ...
Our laboratory has developed a unique model of human AML based upon retroviral expression of an MLL-AF9 (MAS) complementary DNA in human umbilical cord blood CD34+ cells. 13 The transduced cells form highly clonogenic, cytokine-dependent immortal cell lines that indefinitely retain the ability to engraft immunodeficient mouse strains and ...

AML cells are differentially sensitive to chemotherapy ...
This model contains the following chapters. At the bottom of the image, use the right and left arrows to scroll through the chapters and hover over the description and click " Show More " to read the full description.. Skeletal System Overview; Bone Marrow; Blood Cell Development

Blood Cell Development 3D Model - Leukemia & Lymphoma Society
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