



Biomedical Engineering Seminar Series

1st Semester, Academic Year 2017

Date: August 11, 2017

Time: 9.00-10.00AM

Room 6373, 3rd level, Building 3,
Department of Biomedical Engineering,
Faculty of Engineering;
Mahidol University



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Vice president, Dean of admissions center,
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"Effect of mechatronic environment on biological cell in vitro"

What kind of stimulation is applied on biological cells? How much? You can use micromachining technique, and cell culture technique. You can analyze the relationships between various stimulation and response of cell quantitatively in vitro engineered system: surface morphology of the scaffold, wall shear stress, gravitational force field, vibration, electric field, and magnetic field. Cell shows many kinds of response (passive and active): migration, deformation, proliferation, orientation, and differentiation.

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