

BN4301 PRINCIPLES OF TISSUE ENGINEERING

WHAT IS THIS MODULE ABOUT?

There are three aims to this module – 1. Equip the student with a strong foundation in fundamental concepts in tissue engineering; 2. Support the student in critical thinking, where the student is expected to propose a well-thought out tissue engineering product at the end of the module; 3. Expose the student to the tissue engineering industry through invited speakers to shed light into what it takes to bring a tissue engineering product from bench to bedside. This module will comprise lectures, talks by industry speakers, and a physical lab visit to a tissue engineering lab in NUS.

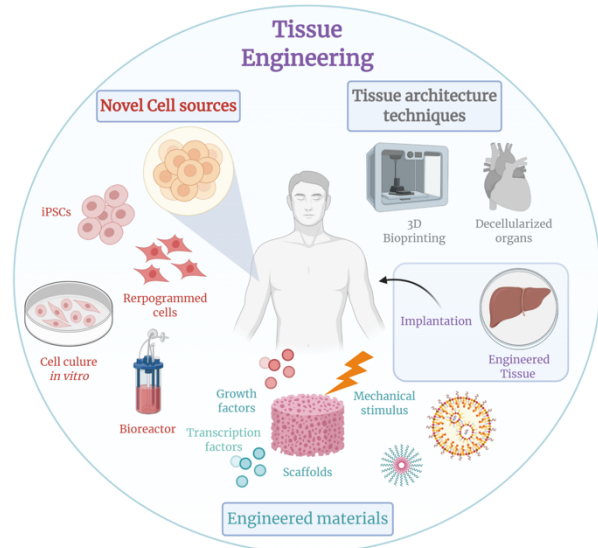


Image from Wikipedia

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WHY YOU SHOULD CONSIDER THIS MODULE

Have you ever wondered where 'spare' tissue parts come from? Or wished you were Wolverine with special healing powers? What if the Regeneration Cradle in the Avengers is not really sci-fi...? If you have had these questions or are thinking of them right now, come take this module. You will learn what is possible (or not) now in the field of tissue engineering and regeneration, and learn about the approaches that have been developed to engineer tissues to replace those that are diseased or injured. You will also have the opportunity to interact with key leaders in the tissue engineering industry, and work on a project as a mock tissue engineer to go through the entire design process.



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