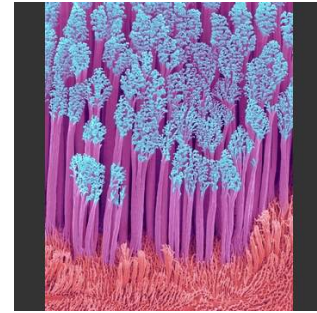
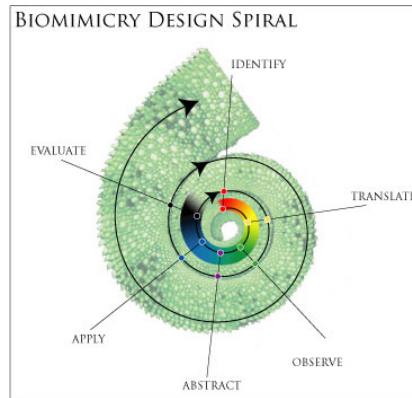




Gecko feet



Gecko toe pad: close-up

Imagine: a non-toxic, reusable, self-cleaning "gecko tape" -inspired by gecko toes- was used to "stick" carpets to our floors and hold our appliances together...

BIOMIMICRY: INNOVATION INSPIRED BY NATURE

"Biomimicry" (from bios, meaning life, and mimesis, meaning to imitate) is a new integrative discipline that studies nature's best ideas and then imitates these designs and processes to solve human problems.

In this class, we will explore past, present and future examples of biomimetic solutions to human problems. We will learn how experts in the field of biomimicry use nature's organisms and ecosystems as model, measure and mentor to discover engineering, architectural, business operations/management, and product development solutions.

We will address questions such as:

- How does nature achieve specific functions/processes?
 - How can we use nature to help us solve global problems?
 - What is the relationship between sustainability and biomimicry?
 - How might learning from nature revolutionize our industrial products, material processes, and business models?
 - What are the cultural opportunities and obstacles to adopting biomimicry in biological education, industrial design, consumer decision-making, and economic planning?
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Students from any discipline are encouraged to register!