Lesson 02 Biomimetics

バイオミメティクス(1)

(1) Nature helps us create new technologies. These technologies are called biomimetics. (3) Lotus plants grow in muddy ponds. (4) However, their leaves are always dry and clean (5) Why? The surface of a lotus leaf is covered with tiny, rough bumps. When water falls on the leaf, the drops run down and gather as one. At the same time, the water drops carry away mud and dust. In this way, lotus leaves never stay wet or dirty. (10) This self-cleaning ability of lotus leaves is known as the "lotus effect." One food company uses this effect to make yogurt lids. (12) The lids have a bumpy surface, so they are always clean.

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バイオミメティクス②

(13) Another example of biomimetics comes from cats. (14) Cats groom themselves with their tongues. (15) They swallow the fur and cough up furballs. (16) One electronics company uses this same mechanism for its vacuum cleaners Their fan blades are rough, like the tongue of a cat. (18) The blades press the dust together like a furball. This makes the dust more compact. (20) As a result, we do not have to empty our vacuum cleaners so often. (21) Nature is full of ideas for a better life. (22) Take a look around you and find other examples of biomimetics.