
MAGNETOSOME BACTERIA

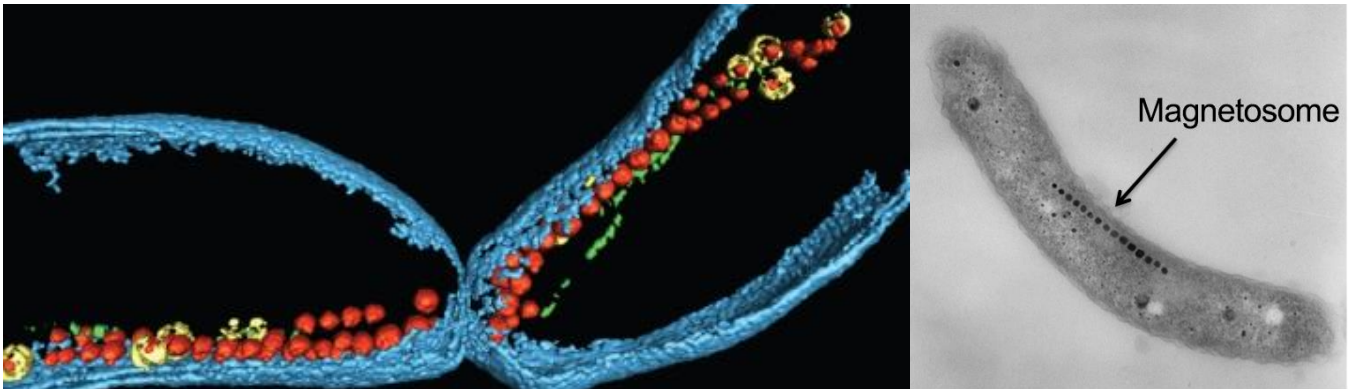
– for cancer

● This is a magnetic-based bacteria that deliver drugs to cancer cells.

Basically, the tumor site has a low oxygen concentration because the tumor consumes a lot of oxygen when multiplied.

These magnetic bacteria have a biological characteristic of moving to places with low oxygen content.

So it automatically moves into the tumor zone and passes the drug on.



01

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Innovative reduction of adverse effects due to chemotherapy

02

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High rate of drug delivery

03

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Navigation system for protection of other organs in the body

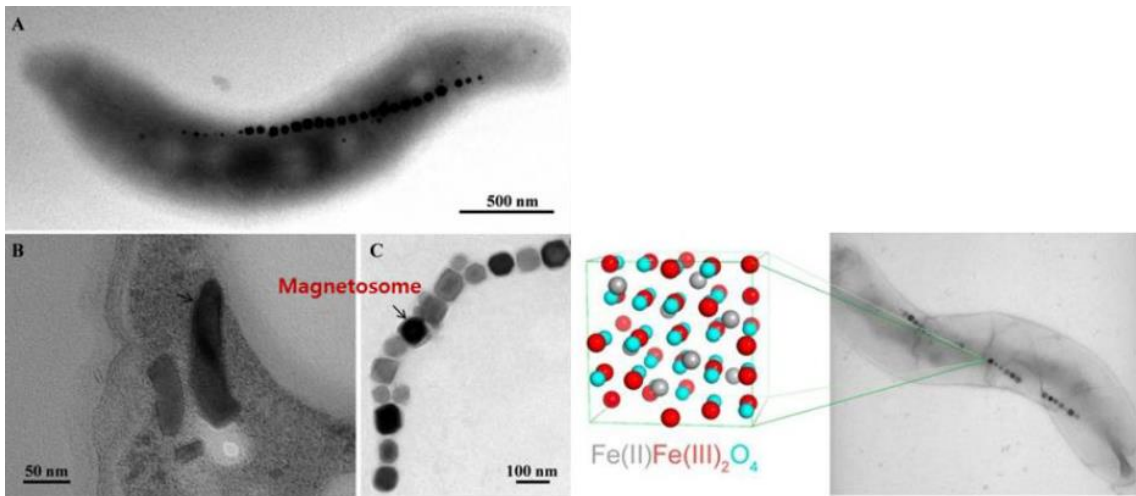
04

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Effective chemotherapy

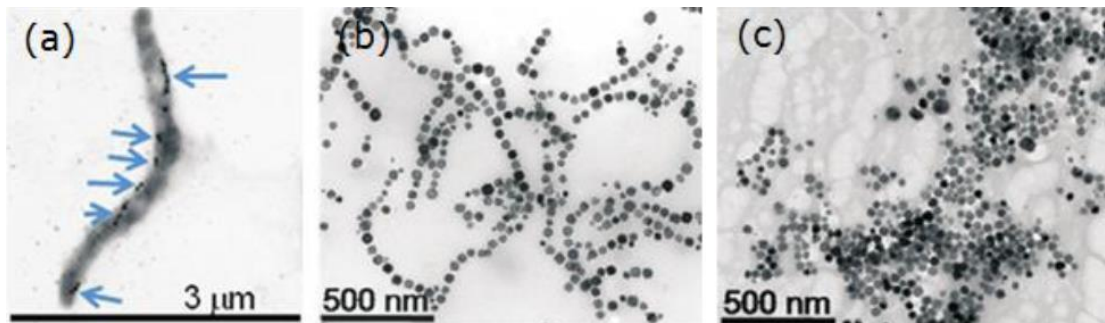
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- The drug delivery efficiency of traditional nano-carrying drugs is 2%, whereas magnetic bacteria have a drug delivery effect of 55%. The momentum of the bacteria is enough to carry drugs deep inside.



In particular, navigation systems prefer low-oxygen-concentration regions, so they do not deliver drugs to other healthy body tissues. This dramatically reduces the risk of cancer drugs by reducing the amount of drug intake without putting healthy tissues or organs at risk.



(a)Magnetic Bacteria

(b)Magnetosome chain

(c)Individual Magnetosome

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