

MaMaSELF



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Antibacterial nanofiber with smart release of drug

Nanofiber brings larger surface to fibre, indicating more contact area. When drug is blended in the nanofiber, nanofiber has the possibility to release the loaded drug on demand. Therefore, the properties of the nanofiber, the carrier, are of great significance. Polymers with Tg around 25 °C are chosen as the carrier, so that drug can be released at body temperature during sporting. Since body odour is from the digest of sweat by bacteria, antibacterial drug released at around 37 °C is effective to prevent body odour. To find a suitable nanofiber with effective drug loading, which can be released at higher skin temperature during sweating, is my adventure of smart nanofiber.

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