

Bacterial cells can help tumors

REPORT

Potential role of intratumor bacteria in mediating tumor resistance to the chemotherapeutic drug gemcitabine

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“Certain bacteria express enzymes capable of metabolizing the cancer chemotherapeutic drug *gemcitabine* into an inactive form...an effect that was reversed by antibiotic treatment in mice. A high percentage of human pancreatic ductal adenocarcinomas contain the culprit bacteria (gammaproteobacteria). ...Efficacy of an existing therapy for this lethal cancer might be improved by co-treatment with antibiotics.”



24% of the drugs with human targets, including members of all therapeutic classes, inhibited the growth of at least one strain *in vitro*

Extensive impact of non-antibiotic drugs on human gut bacteria

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Nature **555**, 623–628 (29 March 2018)

doi:10.1038/nature25979

[Download Citation](#)

Received: 26 March 2017

Accepted: 08 February 2018

Published: 19 March 2018