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Personalized Cancer Medicine: An Organoid ... - cell.com

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Despite the advantages of **tumor organoids** in **personalized cancer therapy**, numerous challenges may hamper the implementation of this approach in a clinical setting. In some **cancers**, the majority of patients are candidates for neoadjuvant **chemotherapy** regimens to shrink **tumors** prior to **surgery**. These **treatment** regimens may result in decreased numbers of **tumor** cells from the biopsy area and possibly preclude **organoid** ...

Cited by: 10

Author: Hamidreza Aboulkheyr Es, Leila Montaze...

Publish Year: 2018

Tumor Organoids as a Pre-clinical Cancer Model for Drug ...

[https://www.cell.com/cell-chemical-biology/fulltext/S2451-9456\(17...](https://www.cell.com/cell-chemical-biology/fulltext/S2451-9456(17...) ▾

Whereas the use of **tumor organoids** in **cancer** research, drug development, and **personalized medicine** in oncology is still in its infancy, and validation studies to evaluate their potential as a model system are in progress, impressive proof-of-concept has already been shown for cystic fibrosis (CF)

Cited by: 57

Author: Fleur Weeber, Salo N. Ooft, Krijn K. Dijks...

Publish Year: 2017

[PDF] Personalized In Vitro and In Vivo Cancer Models to Guide ...

cancerdiscovery.aacrjournals.org/content/candisc/early/2017/03/10/...

alternatives in many advanced **cancer** types. Patient-Derived **Tumor Organoids** and Xenografts as Tools for Precision **Cancer** Care. To complement the genomic information and to provide therapeutic options for patients, we integrated **personalized** . PDTO **drug** screens and PDX generation into our platform (Fig. 2). Fresh **tumor** tissue biopsies or formalin-fixed,

Cited by: 111

Author: Chantal Pauli, Chantal Pauli, Chantal Pau...

Publish Year: 2017

Organoid modeling for cancer precision medicine

Name of Journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 46734

Manuscript Type: MINIREVIEWS

Utilizing gastric cancer organoids to assess tumor biology and personalize medicine

Miranda Lin, Mei Gao, Michael J Cavnar, Joseph Kim

Abstract

While the incidence and mortality of gastric cancer (GC) have declined due to public health programs, it remains the third deadliest cancer worldwide. For patients with early disease, innovative endoscopic and complex surgical techniques have improved survival. However, for patients with advanced disease, there are limited treatment options and survival remains poor. Therefore, there is an urgent need for more effective therapies. Since novel therapies require extensive preclinical testing prior to human trials, it is

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Personalized cancer therapy applies specific treatments to each patient. Using **personalized tumor** models with similar characteristics to the original tumors may result in more accurate predictions of drug responses in patients. **Tumor** organoid models have several advantages over pre-existing models, including conserving the molecular and cellular composition of the original **tumor**.

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Author: Hamidreza Aboulkheyr Es, Leila Montazeri,...

Publish Year: 2018

[PDF] Personalized In Vitro and In Vivo Cancer Models to Guide ...

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quately model the **biology** of the native **tumor**. The high ... alternatives in many advanced **cancer** types. Patient-Derived **Tumor Organoids** and Xenografts as Tools for Precision **Cancer** Care. ... **Personalized Cancer** Models to Guide Precision **Medicine**. B, D, **cancer**. 10. and + with .

Cited by: 144

Author: Chantal Pauli, Chantal Pauli, Chantal Pauli...

Publish Year: 2017

Personalized Cancer Medicine: An Organoid Approach ...

<https://www.sciencedirect.com/science/article/pii/S0167779917303268>

This recent approach, called **precision** or **personalized cancer medicine**, can be described as a '**one dose, one patient**' treatment. Each **tumor** is associated by a heterogeneous **tumor microenvironment**, which can significantly **affect** the response to **therapy** and **clinical outcomes**.

Cited by: 15

Author: Hamidreza Aboulkheyr Es, Leila Montazeri,...

Publish Year: 2018

Organoid modeling for cancer precision medicine | Genome ...

<https://genomemedicine.biomedcentral.com/articles/10.1186/s13073-015-0158-y>

Mar 31, 2015 · Cancer precision medicine. On the other hand, in **vivo mouse** '**avatars**' (patient-derived **xenografts**) or **genetically engineered mouse models** (GEMMs) allow three-dimensional tissue context and stromal recapitulation, but have the potential disadvantages of **non-human** context, low ...

Published in: Genome **Medicine** · 2015

Authors: Michael A Cantrell · Calvin L Kuo