



The landscape of BRIP1 (FANCI) molecular lesions in gastr



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The Genomic Landscape of Endocrine-Resistant ... - Cancer Cell

[https://www.cell.com/cancer-cell/fulltext/S1535-6108\(18\)30368-4](https://www.cell.com/cancer-cell/fulltext/S1535-6108(18)30368-4) ▼

The **genomic** evolution of breast **cancers** exposed to systemic therapy and its effects on clinical outcome have not been broadly characterized. Collectively, our findings suggest an emerging taxonomy of hormone-resistant breast **cancer** that includes, in addition to already known ESR1 mutations, functional **lesions** in the MAPK pathway and in the estrogen receptor transcriptional ...

Cited by: 79**Author:** Pedram Razavi, Matthew T. Chang, Gu...**Publish Year:** 2018

Recent discoveries in the molecular pathogenesis of the ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5391297>

UBE2T, newly termed FANCT, is the E2 ubiquitin-conjugating enzyme for **FANCD2** and **FANCI**. 28, 29, 56 In 2000, Zhang et al. cataloged three hundred cDNAs of previously undefined genes expressed in CD34 positive **hematopoietic stem cells**, one of which, HSPC150, contained a ubiquitin-conjugating motif. 57 HSPC150 was mapped to 1q31, a region known to be amplified in a range of **cancers**...

Cited by: 96**Author:** Nicholas E. Mamrak, Akiko Shimamura...**Publish Year:** 2017

Landscape of gene fusions in epithelial cancers: seq and ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4683719>

Dec 18, 2015 · Gene fusions have now been identified in several common carcinomas, including those of the prostate, lung, breast, head and neck, brain, skin, **gastrointestinal** tract, and kidney, which alongside the widely documented gene fusions in thyroid and salivary gland tumors support the notion that gene fusions are integral to the **genomic landscape** of ...

Cited by: 95**Author:** Chandan Kumar-Sinha, Shanker Kalya...**Publish Year:** 2015

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 53110

Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

The landscape of BRIP1 molecular lesions in gastrointestinal cancers from published genomic studies

Voutsadakis JA. BRIP1 in GI cancers

Ioannis A Voutsadakis

Abstract

BACKGROUND

BRIP1 is a helicase that partners with *BRCA1* in the homologous recombination (HR) step in the repair of DNA inter-strand cross-link lesions. It is a rare cause of hereditary ovarian cancer in patients with no mutations of *BRCA1* or *BRCA2*. The role of the protein in other cancers such as gastrointestinal (GI) carcinomas is less well characterized but given its role in DNA repair it could be a candidate tumor suppressor similarly to the two *BRCA* proteins.

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The landscape of BRIP1 molecular lesions in gastrointestinal cancer



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BRIP-1 germline mutation and its role in colon cancer ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6505212>

Recent advances in **genomic medicine** have identified mutations in "novel" **genes** as conferring an increased risk of **colorectal cancer**. **Mutations in the BRIP1 gene** (BRCA1 Interacting Protein C- terminal helicase 1) are known to increase the risk of **ovarian** and **breast cancers**, but this genes association with **colon cancer** has not been previously reported.

Author: Mir Ali, Celia Dawn Delozier, Uzair ... **Publish Year:** 2019

BRIP1 - an overview | ScienceDirect Topics

<https://www.sciencedirect.com/topics/biochemistry-genetics-and-molecular-biology/brip1>

Approximately 5% to 10% of breast **cancer** cases have a familial or hereditary component. 20 Advances in **molecular** biology have had a profound effect on the diagnosis, risk reduction, and treatment of hereditary breast **cancer**. 21 Classic genetic mapping and cloning **studies** identified mutations in two genes, BRCA1 and BRCA2, that account for the ...

Molecular diagnosis in breast cancer - ScienceDirect

<https://www.sciencedirect.com/science/article/pii/S1756231718300136>

Breast cancer is a complex and heterogeneous disease, encompassing a plethora of entities with distinct biological features and clinical behaviour. The advent of **high throughput molecular methods** has allowed a systematic characterization of the **genomic landscape of breast cancer**, revealing a profound heterogeneity in this disease.

Cited by: 15 **Author:** Caterina Marchiò, Caterina Marchiò, J...

Publish Year: 2008

Translating genomic profiling to gastrointestinal cancer ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5348722>

Jan 09, 2017 · These studies indicate that some features of **metastatic lesions** are similar to the primary **tumor**, while others are different. Thus, to aim to **cure metastatic disease** it is important to identify the **genomic landscape of metastatic lesions** and targeted **therapy** should be selected according to both **metastatic** and **primary lesions**.

Cited by: 2

Author: Kazuto Harada, Dilsa Mizrak Kaya, Yus...



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Landscape of BRIP1 molecular lesions in gastrointestinal cancer



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BRIP-1 germline mutation and its role in colon cancer ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6505212>

BRIP1 mutations have been reported in 3% of the **colon cancer tissue** samples analyzed in the **colorectal adenocarcinoma TCGA** (The **cancer genome atlas**) dataset . There have also been **studies** where **BRIP1** has shown to be a factor in determining the recurrence rate in **colon cancer**.

Author: Mir Ali, Celia Dawn Delozier, Uzair Ch... **Publish Year:** 2019

Molecular diagnosis in breast cancer - ScienceDirect

<https://www.sciencedirect.com/science/article/pii/S1756231718300136>

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Publish Year: 2008

BRIP1 - an overview | ScienceDirect Topics

<https://www.sciencedirect.com/topics/biochemistry-genetics-and-molecular-biology/brip1>

BRIP1 **BRIP1** (**BRCA1** interacting protein) is a DNA repair gene that contributes to the DNA repair