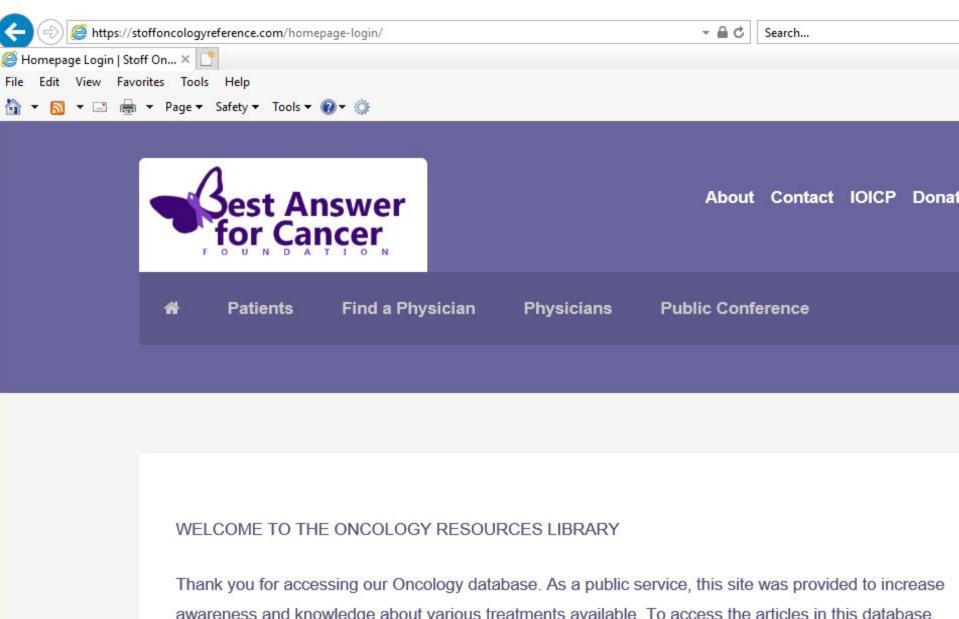
May 17-19

(Pre-conference events May 15-16) The Rosen Centre, Orlando, FL, USA



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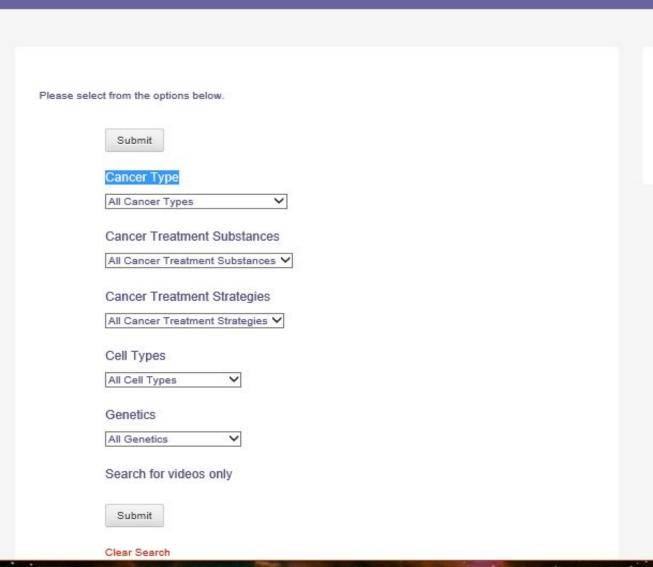


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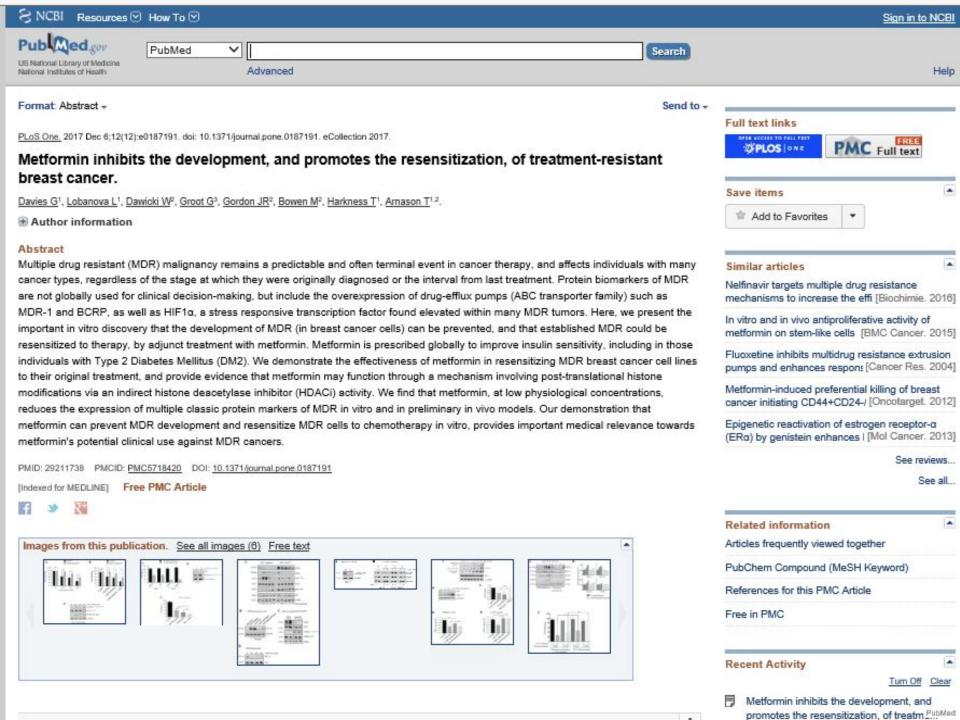
### **Breast Cancer X Metformin**



Metformin inhibits the development, and promotes the resensitization, of treatment-resistant breast cancer.

Posted by StoffSuperAdmin / Article / 0 Comments

Original post found on Pubmed here.





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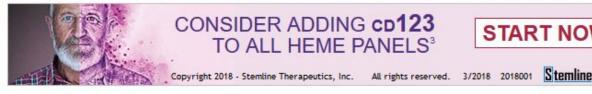
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### Immunotherapy for Bladder Cancer

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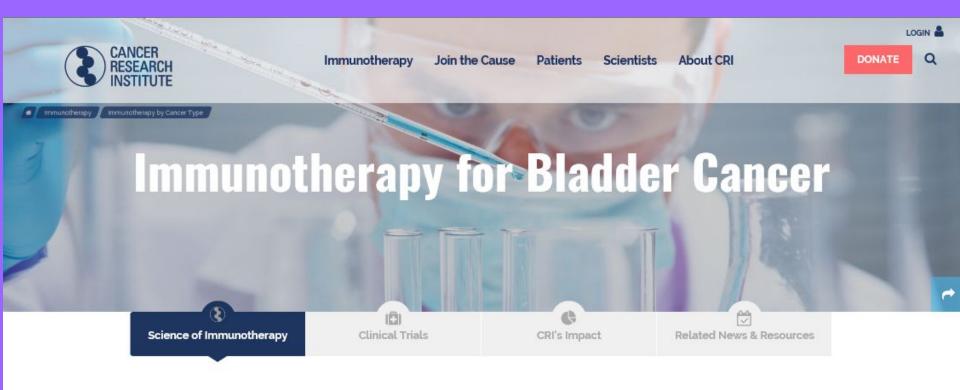
### **Bladder Cancer Mutations**

Posted by StoffUploader / Article / 0 Comments

ERCC1, PD-L1, RRM1, TOP2A, TRKA/B/C, TS, TUBB3

Original post found here

Cell cycle arrest and autoschizis in a human bladder carcinoma cell line following Vitamin C and Vitamin K3



## **How is Immunotherapy Changing the Outlook** for Patients with Bladder Cancer?

Reviewed By: Padmanee Sharma, M.D., Ph.D. DETAILS +

Bladder cancer was the first indication for which an immunotherapy was granted. approval by the Food and Drug Administration (FDA) in 1990. Since 2016, two more immunotherapies have been approved, and there are currently a number of additional immune-based bladder cancer treatments in development. This page



## **Clinical Trials for Bladder Cancer**

Immunotherapy with BCG has reduced the risk of bladder cancer recurrence and increased the percentage of patients who experience a complete response after surgery, while atezolizumab and nivolumab have benefitted patients with advanced cases of bladder cancer. Investigational immunotherapies that train the immune system to recognize bladder cancer cells may further improve outcomes for bladder cancer patients. Below are descriptions of ongoing immunotherapy clinical trials for patients with bladder cancer.

Oncolytic Virus Therapy

#### Checkpoint Inhibitors/Immune Modulators

Adoptive Cell Therapy

Monoclonal Antibodies

Adjuvants

A promising avenue of clinical research in bladder cancer is the use of immune checkpoint inhibitors. These treatments work by targeting molecules that serve as checks and balances in the regulation of immune responses. By blocking inhibitory molecules or, alternatively, activating stimulatory molecules, these treatments are designed to unleash or enhance pre-existing anti-cancer immune responses.

Atezolizumab (TECENTRIQ®): A PD-L1 Antibody

- A phase III study of atezolizumab as adjuvant therapy in patients with PD-L1-positive, high-risk muscle invasive bladder cancer after surgery to remove all or part of the bladder (NCT02450331).
- A phase II preoperative study of atezolizumab in patients with transitional cell cancer of the bladder (NCT02662309).
- A phase I/II study of atezolizumab in patients with advanced cancer, including bladder cancer, in combination with varlilumab (CDX-1127), an anti-CD27 antibody (NCT02543645).
- A phase I study of CPI-444, which targets the adenosine-A2A receptor that suppresses the anti-tumor activity of immune cells, +/- atezolizumab for patients with advanced cancer, including bladder cancer (NCT02655822).

Durvalumab (MEDI4736): A PD-L1 Antibody +/- Tremelimumab: A CTLA-4 Antibody

- A phase III trial of durvalumab +/- tremelimumab for patients with bladder cancer (NCT02516241).
- A phase I/II trial of durvalumab, tremelimumab, and Poly-ICLC, a Toll-like receptor 3 agonist, in patients with advanced, measurable cancers, including bladder cancer (NCT02643303).

Nivolumab (Opdivo®): A PD-1 Antibody +/- Ipilimumab (Yervoy®): A CTLA-4 Antibody

A phase II trial of nivolumab +/- ipilimumab in patients with bladder cancer (NCT02553642)

REVIEW Open Access

# Combination immunotherapy: a road map



Patrick A. Ott1\*, F. Stephen Hodi1, Howard L. Kaufman2, Jon M. Wigginton3 and Jedd D. Wolchok4

#### Abstract

Cancer immunotherapy and in particular monoclonal antibodies blocking the inhibitory programed cell death 1 pathway (PD-1/PD-L1) have made a significant impact on the treatment of cancer patients in recent years. However, despite the remarkable clinical efficacy of these agents in a number of malignancies, it has become clear that they are not sufficiently active for many patients. Initial evidence, for example with combined inhibition of PD-1 and CTLA-4 in melanoma and non-small cell lung cancer (NSCLC), has highlighted the potential to further enhance the clinical benefits of monotherapies by combining agents with synergistic mechanisms of action. In order to address the current progress and consider challenges associated with these novel approaches, the Society for Immunotherapy of Cancer (SITC) convened a Combination Immunotherapy Task Force. This Task Force was charged with identifying and prioritizing the most promising prospects for combinatorial approaches as well as addressing the challenges associated with developing these strategies. As a result of the extensive clinical benefit and tolerable side effects demonstrated with agents inhibiting the PD-1 pathway, an overview of current evidence to support its promising potential for use as a backbone in combination strategies is presented. In addition, key issues in the development of these strategies including preclinical modeling, patient safety and toxicity considerations, clinical trial design, and endpoints are also discussed. Overall, the goal of this manuscript is to provide a summary of the current status and potential challenges associated with the development and clinical implementation of these strategies.

Review A fresh look at tumor

Review Cancer stem cell

immunosurveillar [Nat Immunol. 2001]

Review Immune approaches to the

treatment ([Breast Cancer Res. 2014]

immunology: ke [Front Immunol. 2014]

cancer: therapeutic can [Breast. 2007]

Review Immunology and breast

The field of tumor immunology has grown around the idea that one of the important roles of the immune system is to eliminate cancer. This idea was difficult to reconcile with the accepted notion that the immune system evolved to distinguish self from nonself and therefore tumors derived from self-tissues would not be recognized. Lack of appropriate animal models prevented experimental testing of cancer immunosurveillance. This changed with the realization that the immune system evolved to recognize danger and with the advent of mouse models deficient in one or more immune function, which showed predicted increases in susceptibility to cancer. Simultaneously, technical advances that enabled the study of the human immune system provided data for the existence of tumor-specific T cells and Abs and led to molecular identification of tumor Ags, fully validating the cancer immunosurveillance hypothesis. Immunotherapy designed to strengthen cancer immunosurveillance has achieved unprecedented clinical successes.

PMID: 29311379 PMCID: PMC5763509 [Available on 2019-01-15] DOI: 10.4049/jimmunol.1701302





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Cell Cycle. 2002 Nov-Dec;1(6):369-74.

# Cell cycle phase-specific chemotherapy: computational methods for guiding treatment.

Gardner SN1.

Author information

#### **Abstract**

Computational models of cancer chemotherapy enhance the understanding of in vitro, in vivo, and clinical trial data and have the potential to contribute to the design of rational treatment regimens. In particular, mechanistic, predictive models are superior to statistical, phenomenological descriptions of data. Mechanistic models based on functional data from tumor biopsies will enable the response to treatment to be predicted for a specific patient, in contrast to statistical models in which the probability of response for a given patient may differ substantially from the population average. This review summarizes mathematical models developed to improve the design of treatment regimens using cell-cycle phase-specific chemotherapy. It starts with simple models of dose response, then moves to more complex models of scheduling cell-cycle phase-specific drugs, and finally discusses mechanistic models that incorporate both genetic drug resistance and cell cycle-mediated drug resistance. This last class of models will be most useful in designing treatment regimens tailored for individual patients.

PMID: 12548007 DOI: 10.4161/cc.1.6.258

# Classification of Chemotherapy:

# **Drug Classification**

## Mechanism of Action

Cell-cycle-non-specific

· Most active in G0 phase

· Cell-cycle-non-specific

DNA and transcription of RNA

· Cell-cycle-specific to S phase

Inhibits RNA and DNA synthesis

· Cell-cycle-specific to M phase

· Break DNA helix strand, interfering with DNA replication

· Bind to DNA and interfere with further replication of

· Resemble essential metabolic elements needed for cell

Alkylating agents Antimetabolites

Antitumour Antibiotics

Plant Alkaloids

Hormones

· Cause a cell cycle phase arrest · Cell-cycle-non-specific · Act in a variety of ways

growth

· Mechanism of action not fully understood · May have "direct lytic action" on cells in certain

diseases (eg corticosteroids in leukemia, lymphoma) · Interfere with protein synthesis

**Anticancer strategies** 

Differentiation

Oncolytic virotherapy

Cytotoxic

Onco-immunology

**Biochemical** 

Targeted therapies

Anti-angioneogenesis

**Cancer Stem Cell Inhibitors** 

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# thecanbase@gmail.com

# Thank You

