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Editorial: Beyond PD-1: novel checkpoint receptors and ligands as targets for immunotherapy

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KEYWORDS

ICI immunotherapy, cancer, tumor, personalized & precision medicine, checkpoint blockade (CB) therapy

Editorial on the Research Topic

Beyond PD-1: novel checkpoint receptors and ligands as targets for immunotherapy

In recent years immunotherapy has become one of the most promising technologies to treat advanced tumors. The idea of modulating the immune system has improved the treatment of cancer patients. While great success has been seen with inhibitors of PD-1, the potential for targeting other cells and ligands in the tumor microenvironment remains vast. This Research Topic emphasizes the potential of targeting both inhibitory and co-stimulatory receptors to reinvigorate anti-tumor immune responses, mainly focusing on receptors other than PD-1.

Some of the most promising research concerns the potential of targeting VISTA, an inhibitory B7 family molecule that can be expressed on tumor cells and myeloid cells in the tumor microenvironment, particularly in immunologically cold tumors. Duan *et al.* explored the role of VISTA in acute myeloid leukemia and multiple myeloma. VISTA co-expresses with other checkpoint receptors (e.g. PD-1, TIM-3) and may influence prognosis, being associated with poor overall survival in pancreatic or prostate cancers, making it a potential target for immunotherapy. *Iadonato et al.* report on the creation of a humanized anti VISTA antibody that was tested in colon cancer and melanoma models, followed by promising toxicology and pharmacokinetics studies in monkeys.

TIM-3 and LAG-3 are inhibitory immune checkpoints implicated in immune modulation that have received growing interest in recent years. In ovarian cancer, TIM-3 affects the immune microenvironment and T-cell function. *Chang et al.* assessed its potential as a therapeutic target, discussing both the regulatory role of TIM-3 and the challenges in developing effective TIM-3-based therapies. *Luo et al.* explored LAG-3 and the promising status of several inhibitors under development, while *Amrane et al.* investigated the potential for HLA-DR, the ligand for LAG-3. While its role in hot tumors may be important, HLA-DR's potential for direct clinical targeting is limited by

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Michael Ashley



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Checkpoint Nicholson Baker, 2004-08-10 From Nicholson Baker best selling author of *Vox* and the most original writer of his generation his most controversial novel yet Checkpoint Nicholson Baker, 2004 Jay has summoned his old friend Ben to a hotel room not far from the nation's capitol During the course of an afternoon they will share a delicious lunch and will open a bottle of wine from the hotel minibar They will chat about everything from Ben's new camera to Iraq to the unfortunate fate of a particular free range chicken Jay will explain to Ben why and how he is planning to commit a murder that will change the course of history he will explain how he plans to assassinate the president of the United States

Checkpoint Charles Wheeler Thayer, 1964 A realistic international thriller with the tensions between Russians and Americans that were threatening to trigger a nuclear war The narrative keeps history and fiction in effective balance Thayer is a master of evoking the psychological climate of Berlin Checkpoint #4, 2008 DNA Repair in Cancer Therapy Mark R. Kelley, 2011-10-20 Cancer therapeutics include an ever increasing array of tools at the disposal of clinicians in their treatment of this disease However cancer is a tough opponent in this battle and current treatments which typically include radiotherapy chemotherapy and surgery are not often enough to rid the patient of his or her cancer Cancer cells can become resistant to the treatments directed at them and overcoming this drug resistance is an important research focus Additionally increasing discussion and research is centering on targeted and individualized therapy While a number of approaches have undergone intensive and close scrutiny as potential approaches to treat and kill cancer signaling pathways multidrug resistance cell cycle checkpoints anti angiogenesis etc other approaches have focused on blocking the ability of a cancer cell to recognize and repair the damaged DNA that primarily results from the front line cancer treatments chemotherapy and radiation This comprehensive and timely reference focuses on the translational and clinical use of DNA repair as a target area for the development of diagnostic biomarkers and the enhancement of cancer treatment Saves academic medical and pharmaceutical researchers time in quickly accessing the very latest details on DNA repair and cancer therapy as opposed to searching through thousands of journal articles Provides a common language for cancer researchers oncologists and radiation oncologists to discuss their understanding of new molecular pathways clinical targets and anti cancer drug development Provides content for researchers and research clinicians to understand the importance of the breakthroughs that are contributing to advances in disease specific research **Immune Checkpoint Molecules and Cancer**

Immunotherapy Alexandr V. Bazhin, Amedeo Amedei, Svetlana Karakhanova, 2019-01-22 **Checkpoint**, 1974

Checkpoint Nicholson Baker, 2004 **The Themes of Corruption and Incompetence in the Novels of Three Nigerian Writers** Abdullahi Haruna, 2019-11-29 Academic Paper from the year 2019 in the subject English Language and Literature Studies Literature Modibbo Adama University of Technology Yola language English abstract This paper analyses the depiction of corruption and incompetence in Festus Iyayi's *Violence* Chinua Achebe's *Anthills of the Savannah* and Kris

Obodumu's *Die a Little* Literature from any part of the world is a response to definite historical and socio-political variables of its time. African literature to a large extent could be considered as protest literature. The protest culture rooted in the protest against slavery and colonialism now bears on post-independence social ills like corruption and incompetence which are so widespread in African political and governmental circles. Nigerian writers especially novelists have played a significant role in the growth and development of African literature through a vast array of highly successful novels. Studies show that Nigerian novelists like Festus Iyayi, Chinua Achebe, and Kris Obodumu direct their critical searchlights on problems associated with corruption and incompetence in governmental circles which seem endemic to Nigeria. Festus Iyayi in *Violence* is very much disturbed by the rate at which his society is decaying through the effect of corruption and incompetence after independence. The novel is basically set to reflect the moral decadence in Nigerian society between 1960 to the early 80s. Eight years after the publication of *Violence*, corruption and incompetence had not only remained the order of the day in the Nigerian Society but had also taken a sophisticated dimension. *Anthills of the Savannah* could be said to be the means through which Achebe shows his disgust for corruption, mediocrity, and incompetence in the Nigerian political circle during the years of military dictatorship. Obodumu's *Die a Little* is concerned with the examination of the inevitable consequences of bad national economic policy hastily put in place by a corrupt and incompetent regime without considering its impact on the people.

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Handbook of Cell Signaling Edward A. Dennis, 2010. Vol 1 Part I: Initiation, Extracellular and Membrane Events; Vol 2 Part II: Transmission, Effectors and Cytosolic Events; Vol 3 Part III: Transcription and Translation, Nuclear and Cytoplasmic Events; Vol 3 Part IV: Signaling From Intracellular Compartments; Vol 3 Part V: Cell-Cell and Cell-Matrix Interactions; Vol 3 Part VI: DISEASE PATHOPHYSIOLOGY: Translational Implications. **American Book Publishing Record Cumulative, 1950-1977: Title index** R.R. Bowker Company. Department of Bibliography, 1978. *The Mammoth Encyclopedia of Modern Crime Fiction* Michael Ashley, 2002. A reference and overview of the genre of crime fiction primarily covering the 1950s onwards although major earlier writers such as Agatha Christie and Raymond Chandler also have entries. *Fiction,*

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Department, 1983 *Patterns of Change* Center for Gifted Education Staff, 2003-08 **Newsweek**, 2004 **The Believer**
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