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Poly adenosine diphosphate-ribosylation, a promising target for colorectal cancer treatment

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[\(PDF\) Targeting poly\(ADP-ribosyl\)ation: a promising ...](#)https://www.academia.edu/15250866/Targeting_poly... ▼

Poly(ADP-ribose) polymerases (PARPs) are DNA damage sensors that first emerged as potential chemotherapeutic **targets** more than 20 years ago. Unfortunately, although proof of principle was demonstrated when PARP inhibition potentiated the ability of several anti-cancer agents to kill cells, early generations of PARP inhibitors lacked the potency and specificity needed for use in clinical settings.

[Poly\(ADP-Ribose\) Polymerase Inhibition Sensitizes ...](#)<https://www.ncbi.nlm.nih.gov/pubmed/?term=30353615>

Colorectal cancer (CRC) remains a leading killer in the U.S. with resistance to **treatment** as the largest hurdle to cure. **Colorectal cancer**-initiating cells (CICs) are a self-renewing tumor population that

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[Adenosine Diphosphate Ribosylation - an overview ...](#)

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Cholera toxin causes **adenosine** diphosphate (ADP) ribosylation of an arginine residue in position 201 within the GTP-binding domain of G α s, markedly reducing the intrinsic GTPase activity of the subunit (Fig. 2), leading to constitutive activity of the protein and increased levels of cAMP independent of the normal extracellular signal.

[Poly\(ADP-ribose\) polymerases: mechanism and new ...](#)

<https://pubmed.ncbi.nlm.nih.gov/20645701>

Poly(ADP-ribose) polymerase (PARP) is a ubiquitously present nuclear enzyme that is not only involved in many important cellular pathways but also contributes to chromosomal structure and genomic stability. The development of highly selective and potent PARP inhibitors has become of increasing clinic ...

Cited by: 29

Author: Florian Heitz, Philipp Harter, Nina Ewald-...

Publish Year: 2010

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A phase 2 study of the PARP inhibitor veliparib plus ...

<https://pubmed.ncbi.nlm.nih.gov/29579325>

Background: **Poly(adenosine diphosphate ribose)** polymerase (PARP) inhibitors such as veliparib are potent sensitizing agents and have been safely combined with DNA-damaging agents such as temozolomide. The sensitizing effects of PARP inhibitors are magnified when cells harbor DNA repair defects. Methods: A single-arm, open-label, phase 2 study was performed to investigate the disease ...

Cited by: 19

Author: Michael J. Pishvaian, Rebecca S. Slack, We...

Publish Year: 2018

Role of Poly-ADP-Ribosylation in Cancer Development ...

<https://www.ncbi.nlm.nih.gov/books/NBK6118>

Elucidation of the relationship between **poly**-ADP-ribosylation and carcinogenesis has markedly progressed by the recent development of knockout or transgenic mice models of **poly**(ADP-ribose) polymerase (Parp)-1, Parp-2, and **poly**(ADP-ribose) glycohydrolase (Parg). Parp-1 is involved in base excision repair (BER), single- and double-strand break repair, and chromosomal stability.

Cited by: 7

Author: Mitsuko Masutani, Akemi Gunji, Masahiro T...

Publish Year: 2006

Poly(ADP-ribosyl)ation polymerases: mechanism and new ...

<https://pubmed.ncbi.nlm.nih.gov/20645701>

Poly(ADP-ribose)polymerase (PARP) is a ubiquitously present nuclear enzyme that is not only involved in many important cellular pathways but also contributes to chromosomal structure and genomic stability. The development of highly selective and potent PARP inhibitors has become of increasing clinic ...

Cited by: 29

Author: Florian Heitz, Philipp Harter, Nina Ewald-Ri...

Publish Year: 2010

Poly(Adenosine Diphosphate-Ribose) Polymerase Inhibitors ...

<https://www.researchgate.net/publication/224809529...>

The inhibition of **poly(adenosine diphosphate [ADP]-ribose)** polymerase (PARP) is a potential synthetic lethal therapeutic strategy for the **treatment** of **cancers** with specific DNA-repair defects ...

Cancer Progress Timeline | ASCO

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