

30

Name of Journal: *World Journal of Clinical Oncology***Manuscript NO:** 54929**Manuscript Type:** MINIREVIEWS**Progress in immunotherapy for small cell lung cancer**

Dong Zhao, Bing Xie, Yong Yang, Peng Yan, Sheng-Nan Liang, Qiang Lin

Abstract

Small-cell lung cancer (SCLC) is a special type of lung cancer that belongs to highly aggressive neuroendocrine tumors. At present, radiotherapy and chemotherapy remain the mainstay of treatment for SCLC. Progress in targeted therapies for SCLC with driver mutations has been slow, and these therapies are still under investigation in preclinical or early-phase clinical trials, and research on antiangiogenic tyrosine kinase inhibitors (*e.g.*, anlotinib) has achieved some success. Immunotherapy is becoming an important treatment strategy for SCLC after radiotherapy and chemotherapy. In this article we review the recent advances in immunotherapy for SCLC.

Key words: Small-cell lung cancer; Programmed death-1 inhibitors; Cytotoxic T lymphocyte-associated antigen-4 inhibitors; Poly adenosine diphosphate ribose polymerase inhibitors

Zhao D, Xie B, Yang Y, Yan P, Liang SN, Lin Q. Progress in immunotherapy for small cell lung cancer. *World J Clin Oncol* 2020; In press

Match Overview

9	Internet 26 words crawled on 27-Apr-2020 clinicaltrials.gov	1%
10	Internet 25 words crawled on 30-Dec-2019 tlcr.amegroups.com	1%
11	Crossref 25 words Rebecca Y. Tay, David Heigener, Martin Reck, Raffaele C... ano. "Immune checkpoint blockade in small cell lung cance	1%
12	Internet 24 words crawled on 17-Jan-2020 link.springer.com	1%
13	Crossref 23 words Luis Paz-Ares, Mikhail Dvorkin, Yuanbin Chen, Niels Reinm uth et al. "Durvalumab plus platinum-etoposide versus plati	1%
14	Crossref 19 words C Traversari. "IFN-γ gene transfer restores HLA-class I ex... ession and MAGE-3 antigen presentation to CTL in HLA-def	1%
15	Internet 19 words crawled on 04-Apr-2020 www.spandidos-publications.com	1%
16	Crossref 14 words Anish Thomas, Rasa Vilimas, Christopher Trindade, Rebec ca Erwin-Cohen et al. "Durvalumab in Combination with C...	1%



[国内版](#)[国际版](#)[ALL](#)[IMAGES](#)[VIDEOS](#)

4,950,000 Results

Any time ▾

PUBLISHED November 06, 2018.

Immunotherapy is showing progress in the treatment of extensive-stage small cell lung cancer (SCLC) – a setting that has not seen clinically meaningful improvement in overall survival in about two decades.

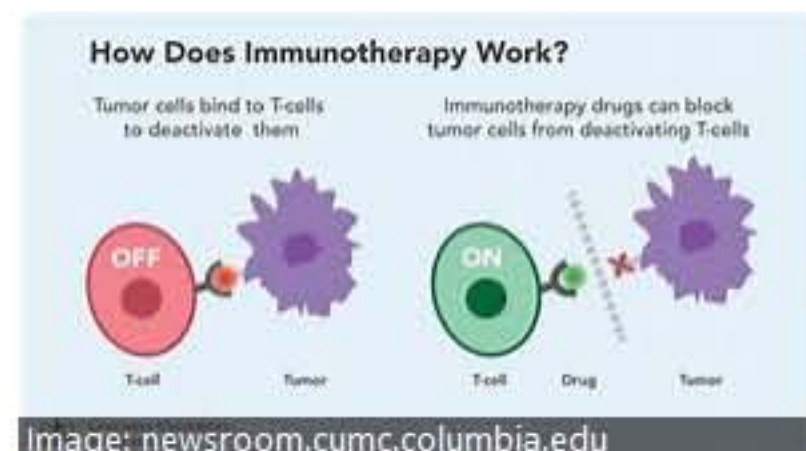


Image: newsroom.cumc.columbia.edu

[Immunotherapy Provides Long-Awaited Progress in Small Cell ...](#)www.curetoday.com/articles/immunotherapy-provides-long-awaited-progress-in-small-cell-lung-c...

Was this helpful?

[Immunotherapy in extensive small cell lung cancer](#)<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6360752>

Feb 04, 2019 · Small cell cancers differ from non small cell cancer by a **rapid doubling** time, **early metastasis** and **frequent brain mets**. They constitute about 15% of all lung cancer diagnosis and a SEER analysis showed a decrease in proportion of small cell cancers over last few decades [4].

Cited by: 5

Author: Vaibhav Verma, Geeti Sharma, Abhijai Si...

Publish Year: 2019

[Immunotherapy Provides Long-Awaited Progress in Small ...](#)<https://www.curetoday.com/articles/immunotherapy-provides-long-awaited-progress-in...> ▾

Immunotherapy Provides Long-Awaited Progress in Small Cell Lung Cancer Immunotherapy is showing **progress** in the treatment of **extensive-stage small cell lung cancer (SCLC)** – a setting that

Chat with Bing



Can chat with a search engine, you're not an ordinary human.

Related searches

[immunotherapy for lung cancer treatment](#)[immunotherapy lung cancer survival rate](#)[immunotherapy for lung cancer 2019](#)[immunotherapy for small cell carcinoma](#)[can small cell lung cancer be cured](#)[is there a cure for lung cancer](#)

Progress in immunotherapy for small cell lung cancer



ALL

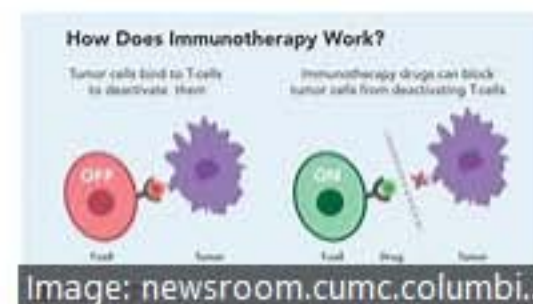
IMAGES

VIDEOS

1,060,000 Results

Any time ▾

PUBLISHED November 06, 2018. **Immunotherapy** is showing progress in the treatment of extensive-stage small cell lung cancer (SCLC) – a setting that has not seen clinically meaningful improvement in overall survival in about two decades.



[Immunotherapy Provides Long-Awaited Progress in Small Cell ...](https://www.curetoday.com/articles/immunotherapy-provides-long-awaited-progress-in-small-cell-lung-cancer/)
[www.curetoday.com/articles/immunotherapy-provides-long-awaited-progress-in-sma...](https://www.curetoday.com/articles/immunotherapy-provides-long-awaited-progress-in-small-cell-lung-cancer/)

Was this helpful?

[Immunotherapy Provides Long-Awaited Progress in Small ...](https://www.curetoday.com/articles/immunotherapy-provides-long-awaited-progress-in-small-cell-lung-cancer/)

[https://www.curetoday.com/articles/immunotherapy...](https://www.curetoday.com/articles/immunotherapy-provides-long-awaited-progress-in-small-cell-lung-cancer/) ▾

Immunotherapy Provides Long-Awaited Progress in Small Cell Lung Cancer Immunotherapy is showing **progress** in the treatment of **extensive-stage small cell lung cancer (SCLC)** – a setting that has not seen clinically meaningful improvement in overall survival in about two decades.

[Immunotherapy in extensive small cell lung cancer](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6360752)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6360752>

Feb 04, 2019 · Small cell cancers differ from non small cell cancer by a **rapid doubling** time, **early metastasis** and **frequent brain mets**. They constitute about 15% of all lung cancer diagnosis and a SEER analysis showed a decrease in proportion of small cell cancers over last few decades [4].

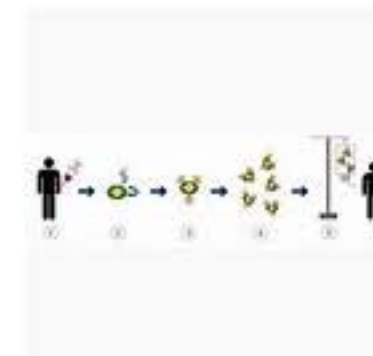
Cited by: 6

Author: Vaibhav Verma, Geeti Sharma, Abhijai Si...

Publish Year: 2019

Immunoth

Drug Class



Wikipedia

May treat: Colon C...
 Melanoma · Non-Ho...

People also se



Cancer
 immunother
 apy



Cher
 py

Data from: Wikipedia ·

Wikipedia text under



Progress in immunotherapy for small cell lung cancer



Sign

ALL IMAGES VIDEOS MAPS NEWS SHOPPING

1,070,000 Results

Any time

Immunotherapy Provides Long-Awaited **Progress in Small Cell Lung Cancer Immunotherapy** is showing **progress** in the treatment of extensive-stage **small cell lung cancer (SCLC)** – a setting that has not seen clinically meaningful improvement in overall survival in about two decades.



[Immunotherapy Provides Long-Awaited Progress in Small Cell ...](https://www.curetoday.com/articles/immunotherapy-provides-long-awaited-progress-in-...)
www.curetoday.com/articles/immunotherapy-provides-long-awaited-progress-in-...

Was this helpful?

PEOPLE ALSO ASK

What is immunotherapy for small cell lung cancer?

What is the best immunotherapy for SCLC?

What are the side effects of immunotherapy?

Feedback

Immunotherapy in extensive small cell lung cancer

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6360752>

Feb 04, 2019 · Small cell cancers differ from non small cell cancer by a **rapid doubling time**, **early metastasis** and **frequent brain mets**. They constitute about 15% of all lung cancer diagnosis and a SEER analysis showed a decrease in proportion of small cell cancers over last few decades [4].

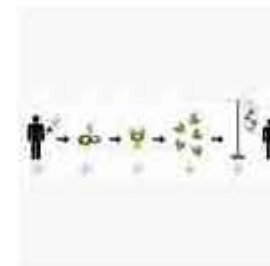
Cited by: 6

Author: Vaibhav Verma, Geeti Sharma, Abhijai Si...

Publish Year: 2019

Immunotherapy

Drug Class



Immunotherapy or Biological therapy is the treatment of disease by activating or suppressing the immune system. Immunotherapies designed to elicit or amplify an immune response are classified as activation immunotherapies, while immunotherapies that r... +

Wikipedia

May treat: Colon Cancer · Leukemia · Chronic Lymphocytic Leukemia · Melanoma · Non-Hodgkin's Lymphoma · Acute Myeloid Leukemia +

People also search for

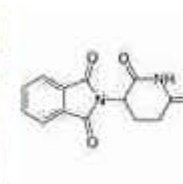
See all (10+)



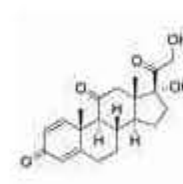
Cancer immunotherapy



Chemotherapy



thalidomide



Immunosuppressive drug



Radiation Therapy

Data from: Wikipedia · Wikidata

Wikipedia text under CC-BY-SA license

[Suggest an edit](#)