

การใช้งานฐานข้อมูล Cell Press & Nature รุ่นที่ 1



รายละเอียด

1. แนะนำกลุ่มคำ Thesaurus/Synonyms
2. Boolean Operators
3. แนะนำช่องทางการเข้าถึงวารสารและฐานข้อมูลอิเล็กทรอนิกส์
4. แนะนำการใช้งานฐานข้อมูล Cell Press & Nature

1. แนะนำกลุ่มคำ Thesaurus/Synonyms

MeSH (Medical Subject Headings) is the NLM controlled vocabulary thesaurus used for indexing articles for PubMed. <https://www.ncbi.nlm.nih.gov/mesh/>

The screenshot shows the MeSH website interface. At the top, there is a navigation bar with the NCBI logo, "Resources" and "How To" dropdown menus, and a "Sign in to NCBI" link. Below this is a search bar with "MeSH" selected in a dropdown menu, a search input field, and a "Search" button. There are also links for "Limits" and "Advanced" search options, and a "Help" link. The main content area features a large image of a forest on the left and a dark blue header with the text "MeSH" and "MeSH (Medical Subject Headings) is the NLM controlled vocabulary thesaurus used for indexing articles for PubMed." Below this, there are two columns of links: "Using MeSH" with links for "Help" and "Tutorials", and "More Resources" with links for "E-Utilities" and "NLM MeSH Homepage".

NCBI Resources ▾ How To ▾

MeSH [Create alert](#) [Limits](#) [Advanced](#)

Summary ▾ 20 per page ▾ Send to: ▾

Search results

Items: 1 to 20 of 396 << First < Prev Page of 20 Next > Last >>

- [Neoplasms](#)
 1. New abnormal growth of tissue. Malignant **neoplasms** show a greater degree of anaplasia and have the properties of invasion and metastasis, compared to benign **neoplasms**.
Year introduced: /diagnosis was NEOPLASM DIAGNOSIS 1964-1965
- [Hereditary Breast and Ovarian Cancer Syndrome](#)
 2. Autosomal dominant HEREDITARY **CANCER** SYNDROME in which a mutation most often in either BRCA1 or BRCA2 is associated with a significantly increased risk for breast and ovarian cancers.
Year introduced: 2012
- [Early Detection of Cancer](#)
 3. Methods to identify and characterize **cancer** in the early stages of disease and predict tumor behavior.
Year introduced: 2009

NCBI Resources How To

MeSH MeSH Limits Advanced

Full Send to:

Neoplasms

New abnormal growth of tissue. Malignant neoplasms show a greater degree of anaplasia and have the properties of invasion and metastasis, compared to benign neoplasms.
Year introduced: /diagnosis was NEOPLASM DIAGNOSIS 1964-1965

PubMed search builder options
[Subheadings:](#)

<input type="checkbox"/> abnormalities	<input type="checkbox"/> education	<input type="checkbox"/> pathology
<input type="checkbox"/> administration and dosage	<input type="checkbox"/> embryology	<input type="checkbox"/> pharmacology
<input type="checkbox"/> analysis	<input type="checkbox"/> enzymology	<input type="checkbox"/> physiology
<input type="checkbox"/> anatomy and histology	<input type="checkbox"/> epidemiology	<input type="checkbox"/> physiopathology
<input type="checkbox"/> antagonists and inhibitors	<input type="checkbox"/> ethnology	<input type="checkbox"/> prevention and control
<input type="checkbox"/> biosynthesis	<input type="checkbox"/> etiology	<input type="checkbox"/> psychology
<input type="checkbox"/> blood	<input type="checkbox"/> genetics	<input type="checkbox"/> radiation effects
<input type="checkbox"/> blood supply	<input type="checkbox"/> growth and development	<input type="checkbox"/> radiotherapy
<input type="checkbox"/> cerebrospinal fluid	<input type="checkbox"/> history	<input type="checkbox"/> rehabilitation
<input type="checkbox"/> chemical synthesis	<input type="checkbox"/> immunology	<input type="checkbox"/> secondary
<input type="checkbox"/> chemically induced	<input type="checkbox"/> injuries	<input type="checkbox"/> statistics and numerical data



Tree Number(s): C04
MeSH Unique ID: D009369
Entry Terms:

- Neoplasia
- Neoplasias
- Neoplasm
- Tumors
- Tumor
- Cancer
- Cancers
- Malignancy
- Malignancies
- Malignant Neoplasms
- Malignant Neoplasm
- Neoplasm, Malignant
- Neoplasms, Malignant
- Benign Neoplasms
- Neoplasms, Benign
- Benign Neoplasm
- Neoplasm, Benign

2. แนะนำ Boolean Operators

Boolean Operators เป็นการสร้างความเชื่อมโยงของ keywords ตั้งแต่ 2 คำขึ้นไป

Boolean Operators
'OR, NOT, AND'

incisors 'OR' molars

incisors OR molars:
allows pages with at least one of the terms

AND = ()

incisors 'AND' molars

incisors AND molars:
allows pages in the overlap where both terms occur

incisors 'NOT' molars

NOT = (-)

incisors NOT molars:
excludes pages that mention 'incisors' if they also mention 'molars'

****Quotation Marks "..."**

3. แนะนำเข้าแหล่งสารสนเทศผ่าน <https://login.ejournal.mahidol.ac.th/login>

เข้าผ่านระบบ Ezproxy

เกิดจากแนวคิดของมหาวิทยาลัยในการสร้างช่องทางเข้าถึงฐานข้อมูลและวารสารอิเล็กทรอนิกส์ โดยผู้ใช้งานสามารถเข้าใช้งานได้ทุกที่ ทุกเวลา ด้วย Mahidol Internet Account



Mahidol University
Library and Knowledge Center
Mahidol eJournal Access

I'm not a robot



firstname.sur (for staff) or u61xxx or g61xxx

type your password

028002680-9 ext.4262,4265
liwww@mahidol.ac.th

[Manual](#)



e-Databases

Full Text Finder
(Journals A to Z)

List of subscribed
by Faculty

e-Resource
Access

Single Search

Mahidol Library Catalogs (OPAC)

Theses

บริการ Single Search สืบค้นทรัพยากรของห้องสมุดทุกแห่งในมหาวิทยาลัยมหิดล สืบค้น
ฐานข้อมูลต่างๆ ที่บอกรับ และบริการยืมระหว่างห้องสมุด (ILL)
* จำเป็นต้องเข้าสู่ระบบ EZproxy ก่อนใช้งาน *

Search in EBSCO Discovery Service...

Search



e-Databases

EBSCO Discovery Service (EDS)

Search by URL Electronic Databases

Single Search, a searching service of all resources from Mahidol University's
subscription



Start your search here...

Search



Restrictions for
E-Journals & E-Databases

[Read more.](#)

e-Databases

- e-Databases
- e-Books
- e-Theses
- Trial Databases
- E-Newspaper
- e-Resource Access
- Journals A to Z
- List of subscribed by Faculty
- e-Databases Training
 - OnLine Training /

A B C D E F G H I J K L M N O P R S T U W



3. แนะนำเข้าแหล่งสารสนเทศผ่านหน้าเว็บห้องสมุดต่างๆ <https://stang.sc.mahidol.ac.th/>

The screenshot shows the Mahidol University Library website. The header includes the university logo and name in Thai, along with navigation links for MU Home, SC Internet, and SC Intranet. A search bar and language selection (EN, TH) are also present. The main navigation menu is highlighted, with 'E-Resources' selected. A dropdown menu is open, showing options like 'Login MU remote access', 'E-DATABASES', 'E-JOURNALS', and 'E-BOOKS'. A red banner below the menu states: 'University E-databases requires login with MU account via https://ejournal.mahidol.ac.th'. Below the banner is a promotional banner for 'บริการยืม e:Read' (e:Read service) with a 'เริ่มให้บริการ' (Start service) button and the year 'พ.ศ. 65'.

E-Databases: ปี 2567

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Journal Finder |

(114 Databases, Last Updated: Jan, 2024)

3. แนะนำเข้าแหล่งสารสนเทศผ่านหน้าเว็บห้องสมุดต่างๆ <https://stang.sc.mahidol.ac.th/>





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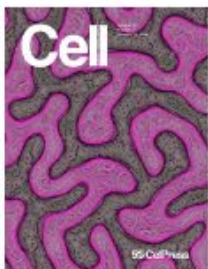
List of e-Journals subscribed : <https://www-li-mahidol-ac-th.ejournal.mahidol.ac.th/namejournal/cell-press/>



TRENDS IN MOLECULAR MEDICINE

Omaveloxolone: A Groundbreaking Milestone as the First FDA-Approved Drug for Friedreich ataxia

Most recent



Current *Cell*

- Journal Home
- Table of Contents
- Online Now
- Archive
- Submit

In situ synthesis of Al–MgAl₂O₄ composites and parametric optimization of tribological characteristics



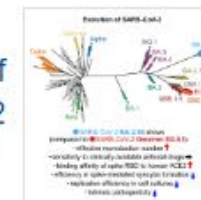
Heliyon

Gut-liver axis calibrates intestinal stem cell fitness



Cell

Virological characteristics of the SARS-CoV-2 BA.2.86 variant



Cell Host & Microbe

คลิกคำสั่ง Drop Down (v) เพื่อกำหนด fields หรือ Search within ในการค้นหาผลงานวิจัยที่เกี่ยวข้อง

Search for...

All content

- All content
- Article title
- Authors
- Keywords
- Abstract
- Article title, abstract, keywords

Most recent

Cell

Current Cell

- Journal Home
- Table of Contents
- Online Now
- Archive
- Submit

Insitu synthesis of Al- MgAl₂O₄ composites and parametric optimization of tribological characteristics




Heliyon

Gut-liver axis calibrates intestinal stem cell fitness

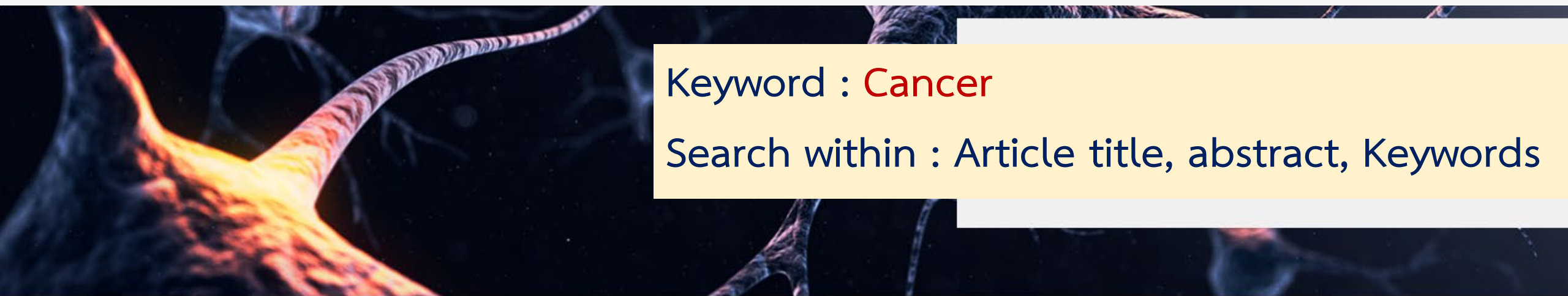


Cell

BA.2.86 variant



Cell Host & Microbe



Keyword : **Cancer**
Search within : Article title, abstract, Keywords

Most recent

Cell

Current Cell

- Journal Home
- Table of Contents
- Online Now
- Archive
- Submit

Insitu synthesis of Al- MgAl₂O₄ composites and parametric optimization of tribological characteristics



Cell

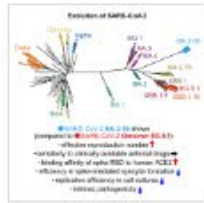
Heliyon

Gut-liver axis calibrates intestinal stem cell fitness



Cell

Virological characteristics of the SARS-CoV-2 BA.2.86 variant



Cell Host & Microbe

Keyword : **Cancer**

Search within : Article title, abstract, Keywords

Filter:

Article type ^

Research Article 12,497

Review Article 4,698

Abstract 1,581

Short Communication 1,000

Insight 631

Show more v

Publication date ^

Last Week 54

Last Month 316

Last 3 Months 920

Last 6 Months 1,731

Last Year 3,108

Last 2 Years 5,104

23,347 results

Article title, abstract, keywo v [Advanced search](#)

Articles (23,347) Figures/multimedia (70,449) Web content (189) Digital Objects (3)

Select all [Save search](#) [Export](#) sorted by *relevance* | *date*

REVIEW ARTICLE • **Open Access** Cited in Scopus: **41**

Drug combination and repurposing for cancer therapy: the example of breast cancer

Heliyon, Vol. 7, Issue 1, Published online: January 11, 2021

Ana Salomé Correia, Fátima Gärtner, Nuno Vale

[Download PDF](#) [Export Citation](#)

ARTICLE • **Open Access** Cited in Scopus: **2**

Across-cancer specific immune responses induced by nanovaccines or microvaccines to prevent different cancers and cancer metastasis

iScience, Vol. 25, Issue 12, Published online: November 5, 2022

Lu Diao, Lin Ma, Junping Cheng, Yunzhi Pan, Zuofu Peng, Lianjun Zhang, and others

[Download PDF](#) [Export Citation](#)

REVIEW SPECIAL ISSUE: QUANTITATIVE CANCER BIOLOGY Cited in Scopus: **14**

Keyword : Cancer

Search within : Article title, abstract, Keywords

Articles: 23,347

Filter:

Article type

Research Article	12,497
Review Article	4,698
Abstract	1,581
Short Communication	1,000
Insight	631
Show more	

Publication date

Last Week	54
Last Month	316
Last 3 Months	920
Last 6 Months	1,731
Last Year	3,108
Last 2 Years	5,104

23,347 results

Article title, abstract, keywo
[Advanced search](#)

Articles (23,347)
 Figures/multimedia (70,449)
 Web content (189)
 Digital Objects (3)

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 [Save search](#)
[Export](#)
sorted by *relevance* | *date*

REVIEW ARTICLE • Open Access
Cited in Scopus: [41](#)

Drug combination and repurposing for cancer therapy: the example of breast cancer

Heliyon, Vol. 7, Issue 1, Published online: January 11, 2021

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ARTICLE • Open Access
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REVIEW SPECIAL ISSUE: QUANTITATIVE CANCER BIOLOGY
 Cited in Scopus: [14](#)

cancer



Article title, abstract, keywo

[Advanced search](#)

Articles (23,348)

Figures/multimedia (70,463)

Web content (189)

Digital Objects (3)

Keyword : Cancer

Search within : Article title, abstract, Keywords

Figures/multimedia: 70,463

sorted by *relevance* | *date*

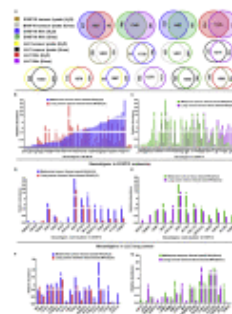


Figure 8
 Neoantigens shared in lung cancer and melanoma
 (A) The sharing and unique proteins in melanoma or lung cancer tumor tissue and corresponding

iScience, Vol. 25, Issue 12
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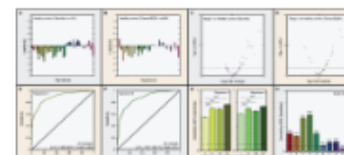


Figure 3
 Early-stage cancer detection by signatures. (A) Logistic(z) values of healthy individuals compared to cancer patients in the current study. (B) Logistic(z)

Heliyon, Vol. 8, Issue 12
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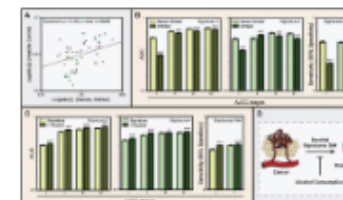


Figure 4
 Alcohol consumption perturbs cancer detection by liquid biopsy. (A) Correlation between serum protein profiles of healthy individuals without cancer and cancer

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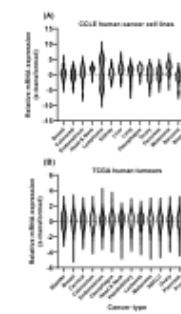


Figure 1
 Interleukin-6 receptor (IL6R) expression in cancer cell lines and human tumours.
 Relative IL-6R mRNA expression data for (A) ~800 cancer cell lines across 14 cancer

Trends in Endocrinology & Metabolism, Vol. 34, Issue 11, p749-763
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Discussion	187
Show more	▼
Publication date	^

Last Week	198
Last Month	1,406
Last 3 Months	4,079
Last 6 Months	7,784
Last Year	13,636
Last 2 Years	21,845

Keyword : Cancer

Search within : Article
title, abstract, Keywords

Web content: 189

189 results

cancer



Article title, abstract, keywo

[Advanced search](#)

Articles (23,348)

Figures/multimedia (70,463)

Web content (189)

Digital Objects (3)

[Save search](#)

Cancer: Cell

Which type of cancer does small cell lung cancer (SCLC) belong to?

<https://www-cell-com.ejournal.mahidol.ac.th/doi/story/10.1016/pic.2016.07.14.3563>

Fig1. Regulation of Cancer Metabolism by Oncogenes: Trends in Cancer

Author presentation of Figure 1 from Oncogene-Directed Alterations in Cancer Cell Metabolism. Trends in Cancer, June 2016. Arvindhan Nagarajan, Parmanand Malvi, and Narendra Wajapeyee

<https://www-cell-com.ejournal.mahidol.ac.th/doi/story/10.1016/vid.2016.09.20.4016>

Fig2. The Evolution of Lifespan and Cancer Incidence: Trends in Cancer

Author presentation of Figure 2 from The Evolution of Lifespan and Age-Dependent Cancer Risk. Trends in Cancer, September 2016. Andrii I. Rozhok and James DeGregori

<https://www-cell-com.ejournal.mahidol.ac.th/doi/story/10.1016/vid.2016.09.29.4083>

Keyword : **Cancer**

Search within : Article title, abstract, Keywords

Digital Objects: **3**

Filter:

Publication date ^

Last 2 Years 1

Last 5 Years 3

From 2021 To 2022

Keyword ^

issue highlights 3

Access Filter ^

Open Access

3 results

cancer

Article title, abstract, keywo

[Advanced search](#)

Articles (23,348) Figures/multimedia (70,463) Web content (189) **Digital Objects (3)**

sorted by *relevance* | *date*

VIDEO
May 24, 2021
Video highlights of volume 3 issue 3

VIDEO
March 21, 2022
Video highlights of volume 3 issue 1

VIDEO
November 26, 2021
Video highlights of volume 2 issue 4

Add Keyword : Colon Cancer

Search within : Article title, abstract, Keywords

Journals Publish News & events About

Colon Cancer [Advanced search](#)

Filter:

- Article type**
 - Research Article 497
 - Review Article 66
 - Short Communication 43
 - Abstract 31
 - Insight 6
 - Show more
- Publication date**
 - Last Week 1
 - Last Month 6
 - Last 3 Months 29
 - Last 6 Months 50
 - Last Year 90
 - Last 2 Years 143

684 results

Colon Cancer Article title, abstract, keywo [Advanced search](#)

Articles (684) Figures/multimedia (2,788) Web content (1)

Select all [Save search](#) [Export](#) sorted by *relevance* | *date*

RESOURCE • [Open Access](#) Cited in Scopus: [406](#)

Proteogenomic Analysis of Human Colon Cancer Reveals New Therapeutic Opportunities
Cell, Vol. 177, Issue 4, p1035–1049.e19, Published online: April 25, 2019
 Suhas Vasaikar, Chen Huang, Xiaojing Wang, Vladislav A. Petyuk, Sara R. Savage, Bo Wen, and others
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ORIGINAL ARTICLE • [Open Access](#) Cited in Scopus: [16](#)

Cathelicidin Suppresses Colon Cancer Metastasis via a P2RX7-Dependent Mechanism
Molecular Therapy - Oncolytics, Vol. 12, p195–203, Published online: January 28, 2019
 Jiani Wang, Michelle Cheng, Ivy K.M. Law, Christina Ortiz, Mingjun Sun, Hon Wai Koon
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RESEARCH ARTICLE • [Open Access](#) Cited in Scopus: [0](#)

Keyword : “Colon Cancer” Add Quotation marks
 Search within : Article title, abstract, Keywords

Journals Publish News & events About

"Colon Cancer" Advanced search

Filter:

456 results

"Colon Cancer" Article title, abstract, keywo

Articles (456) Figures/multimedia (1,747) Web content (1)

Select all [Save search](#) [Export](#) sorted by *relevance* | *date*

ORIGINAL ARTICLE • [Open Access](#) Cited in Scopus: [16](#)

Cathelicidin Suppresses Colon Cancer Metastasis via a P2RX7-Dependent Mechanism

Molecular Therapy - Oncolytics, Vol. 12, p195–203, Published online: January 28, 2019

Jiani Wang, Michelle Cheng, Ivy K.M. Law, Christina Ortiz, Mingjun Sun, Hon Wai Koon

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RESOURCE • [Open Access](#) Cited in Scopus: [406](#)

Proteogenomic Analysis of Human Colon Cancer Reveals New Therapeutic Opportunities

Cell, Vol. 177, Issue 4, p1035–1049.e19, Published online: April 25, 2019

Suhas Vasaikar, Chen Huang, Xiaojing Wang, Vladislav A. Petyuk, Sara R. Savage, Bo Wen, and others

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ORIGINAL ARTICLE • [Open Access](#) Cited in Scopus: [13](#)

Filter:

Article type	Count
Research Article	326
Review Article	33
Short Communication	32
Abstract	31
Insight	5
Show more	

Publication date	Count
Last Month	4
Last 3 Months	18
Last 6 Months	27
Last Year	51
Last 2 Years	85
Last 5 Years	196

Add Keyword : “Colon Cancer” Chemotherapy

Search within : Article title, abstract, Keywords

Journals Publish News & events About

"Colon Cancer" Chemothera [Advanced search](#)

Filter: 33 results

"Colon Cancer" Chemotherapy Article title, abstract, keywo [Advanced search](#)

Articles (33) Figures/multimedia (45)

Select all [Save search](#) [Export](#) sorted by *relevance* | *date*

ORIGINAL ARTICLE • Open Access Cited in Scopus: 0

AMP-activated protein kinase-induced β -catenin degradation through Parkin phosphorylation reverses chemotherapy resistance of colon cancer cells

Molecular Therapy - Nucleic Acids, In Press, Journal Pre-proof, Published online: January 15, 2021

Yanan Yu, Zibin Tian, Lin Yang, Dezhang Zhu, Xueli Ding, Xue Jing, and others

[Download PDF](#) [Export Citation](#)

ORIGINAL ARTICLE • Open Access Cited in Scopus: 13

A chemoresistance lncRNA signature for recurrence risk stratification of colon cancer patients with chemotherapy

Molecular Therapy - Nucleic Acids, Vol. 27, p427–438, Published online: December 10, 2021

Hao Wang, Yuzhen Gao, Somayeh Vafaei, Qiaoyan Yu, Jun Zhang, Liangjing Wang

[Download PDF](#) [Export Citation](#)

Article type

Research Article 22

Review Article 6

Short Communication 2

Publication date

Last 3 Months 2

Last 6 Months 3

Last Year 4

Last 2 Years 7

Last 5 Years 15

From To

Author

Filter: การกรองผลลัพธ์

Article type	Count
Research Article	22
Review Article	6
Short Communication	2

Publication date	Count
Last 3 Months	2
Last 6 Months	3
Last Year	4
Last 2 Years	7
Last 5 Years	15

From To

Author	Count
Beijersbergen, Roderick L	2
Bernards, René	2
Huang, Emina H	2
Salazar, Ramon	2
Schlicker, Andreas	2
Show more	

Journal	Count
Heliyon	5
Molecular Therapy	4
Cancer Cell	3
Cell	3
Cell Reports	3
Show more	

Collection	Count
Bioinformatics and Computational Biology	1
Biotechnology and Bioengineering	1
Cancer	1
Cancer Research	1
Cancer Tissue Engineering	1
Health Sciences	1
Pharmaceutical science	1
Psychology	1
Quantitative Biology, Biotechnology and Bioengineering	1
Show less	

Keyword	Count
colon cancer	69
colorectal cancer	61
microbiota	37
colitis	33
colon	30
Show more	

Access Filter	Count
Open Access	

Filter: **1**

Filters applied

- Research Article x
- 2013 - 2023 x

[clear all](#)

2

16 results

"Colon Cancer" Chemotherapy

Article title, abstract, keywo [Advanced search](#)

Articles (16) Figures/multimedia (27) **3**

Select all [Save search](#) [Export](#) **4**

sorted by *relevance* | *date*

Publication date

- Last 6 Months 1
- Last Year 2
- Last 2 Years 5
- Last 5 Years 10

From To

Author

- Wang, Hao 2
- Abdulzehra, Siham 1
- Bacou, Marion 1
- Bansard, Lucile 1
- Bardelli, Alberto 1

[Show more](#)

ORIGINAL ARTICLE • [Open Access](#) Cited in Scopus: [13](#)

A chemoresistance lncRNA signature for recurrence risk stratification of colon cancer patients with chemotherapy

Molecular Therapy - Nucleic Acids, Vol. 27, p427–438, Published online: December 10, 2021

Hao Wang, Yuzhen Gao, Somayeh Vafaei, Qiaoyan Yu, Jun Zhang, Liangjing Wang

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ORIGINAL ARTICLE • [Open Access](#) Cited in Scopus: [43](#)

miR-1290 Is a Biomarker in DNA-Mismatch-Repair-Deficient Colon Cancer and Promotes Resistance to 5-Fluorouracil by Directly Targeting hMSH2

Molecular Therapy - Nucleic Acids, Vol. 7, p453–464, Published online: May 24, 2017

Ling Ye, Tao Jiang, Huanzhang Shao, Lin Zhong, Zhaowen Wang, Yuan Liu, and others

[Download PDF](#) [Export Citation](#) **5**

RESEARCH ARTICLE • [Open Access](#) Cited in Scopus: [0](#)

Construction and validation of a chemokine family-based signature for the prediction of prognosis and therapeutic response in colon cancer

Heliyon, Vol. 9, Issue 6, Published online: June 5, 2023

Wen Zhang, Defeng Kong, Guoliang Li, Zhenrong Yang, Shujun Cheng, Hong Li, and others

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A chemoresistance lncRNA signature for recurrence risk stratification of colon cancer patients with chemotherapy

Hao Wang,^{1,4,6} Yuzhen Gao,^{2,3,6} Somayeh Vafaei,⁵ Qiaoyan Yu,^{1,4} Jun Zhang,^{2,3} and Liangjing Wang^{1,4}

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Chemotherapy is considered the nonsurgical treatment of choice for colon cancer patients. However, no precise molecular markers are available to determine which patients can actually benefit from it. In this study, we identified 55 chemotherapy-specific long non-coding RNAs (lncRNAs) of colon cancer patients through a systematic assessment of lncRNA expression profiles from a public database. These were taken from multiple cohorts of colon cancer patients who had received chemotherapy, or not. Based on these data, a chemoresistance lncRNA signature, named CRLSig, was constructed and successfully applied to divide chemotherapy patients into two groups with different recurrence-free survival (RFS) rates. Gene set enrichment analysis revealed that patients with low CRLSig had more infiltrating CD8+ T cells and macrophages, while those with high CRLSig had more infiltrating natural killer T cells. KEGG pathway analysis revealed that the low CRLSig group had more activated metabolic pathways compared with those in the high CRLSig group, indicating better response to chemotherapy. Single-cell sequencing analysis revealed that stromal cells and epithelial cells had higher CRLSig. Thus, we have constructed an auxiliary prognostic tool, CRLSig, able to discriminate patients at high risk of RFS, despite having received standard adjuvant chemotherapy treatment.

INTRODUCTION

Colon cancer is one of the most common malignancies of the gastrointestinal tract; it ranks third in terms of incidence, while second in terms of mortality, worldwide.¹ Currently, colectomy, when combined with adjuvant chemotherapy and radiotherapy, is recognized as the standard treatment for colon cancer. In addition, biologics and immunotherapy are reported to benefit patients with metastatic colon cancer, such as anti-VEGF monoclonal antibody targeting angiogenesis, anti-EGFR therapies, PD-1 blockade, and CTLA-4 inhibitor.^{2–6} Although chemotherapy is beneficial, outcomes vary widely. Moreover, no clinical predictors have been developed to determine which colon cancer patients will benefit from chemotherapy, indicating the importance of proper patient stratification.

Based on current guidelines, stage II colon cancer patients with high-level microsatellite instability (MSI-H) or defective DNA mismatch repair (dMMR) are not likely to have successful chemotherapeutic outcomes in clinical practice.^{7,8} Consequently, MMR checks are routinely performed in the clinic. However, the practice is imprecise because of the large gap between microsatellite status and accurate identification of patients who will benefit from adjuvant chemotherapy in primary colon cancer.⁹ In addition, tumor-tissue DNA mutation profiling and blood-derived circulating tumor DNA, as well as the expression profiles of protein-coding genes, have all been reported as predictors of chemotherapy response.^{10–12} Here, we focus on long non-coding RNAs (lncRNAs) as a predictor of chemotherapy in colon cancer patients to address these gaps and provide better patient stratification resulting in personalized chemotherapy treatment that is more effective and less futile.

The lncRNAs belong to a class of transcripts that are not translated into functional proteins and that are longer than 200 nucleotides.^{13,14} They can modulate gene expression on pre-transcriptional, transcriptional, and post-transcriptional levels by interacting with DNA, mRNA, and proteins.^{15,16} In addition, as competitive endogenous RNAs of microRNAs (miRNAs), lncRNAs can also modulate gene expression by regulating miRNAs to target mRNAs.^{17,18} In recent years, lncRNAs have been associated with the development and progression of cancer.¹⁹ For colon cancer, several lncRNAs have been associated with cell proliferation and apoptosis, cell metastasis and invasion, epithelial-mesenchymal transition, drug resistance, and

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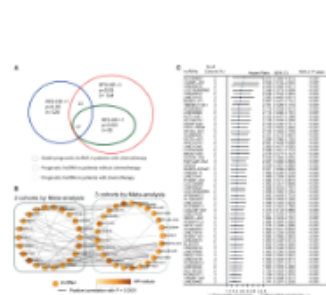


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(A) Identification of prognostic lncRNAs in

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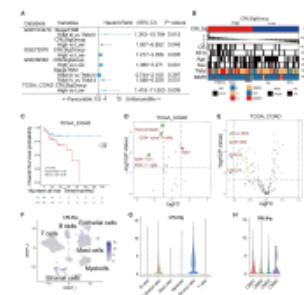


Figure 6
Independence of CRLSig from other clinicopathological factors and its clinical features

(A) The prognostic value of CRLSig and TNM stage in these

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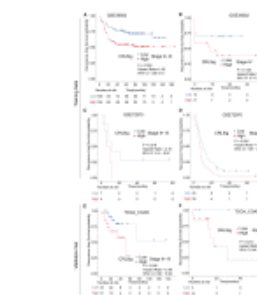


Figure 4
Subgroup analysis of Kaplan-Meier survival curves of CRLSig in predicting RFS prognosis of colon cancer patients after chemotherapy

(A) GSE30582 stage

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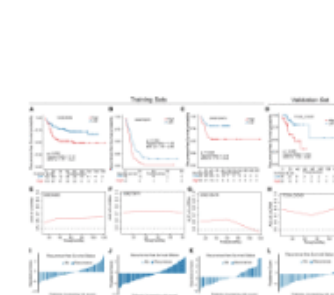


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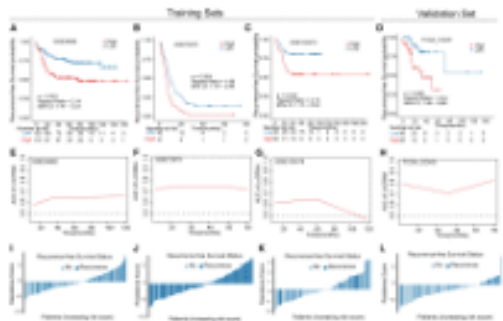


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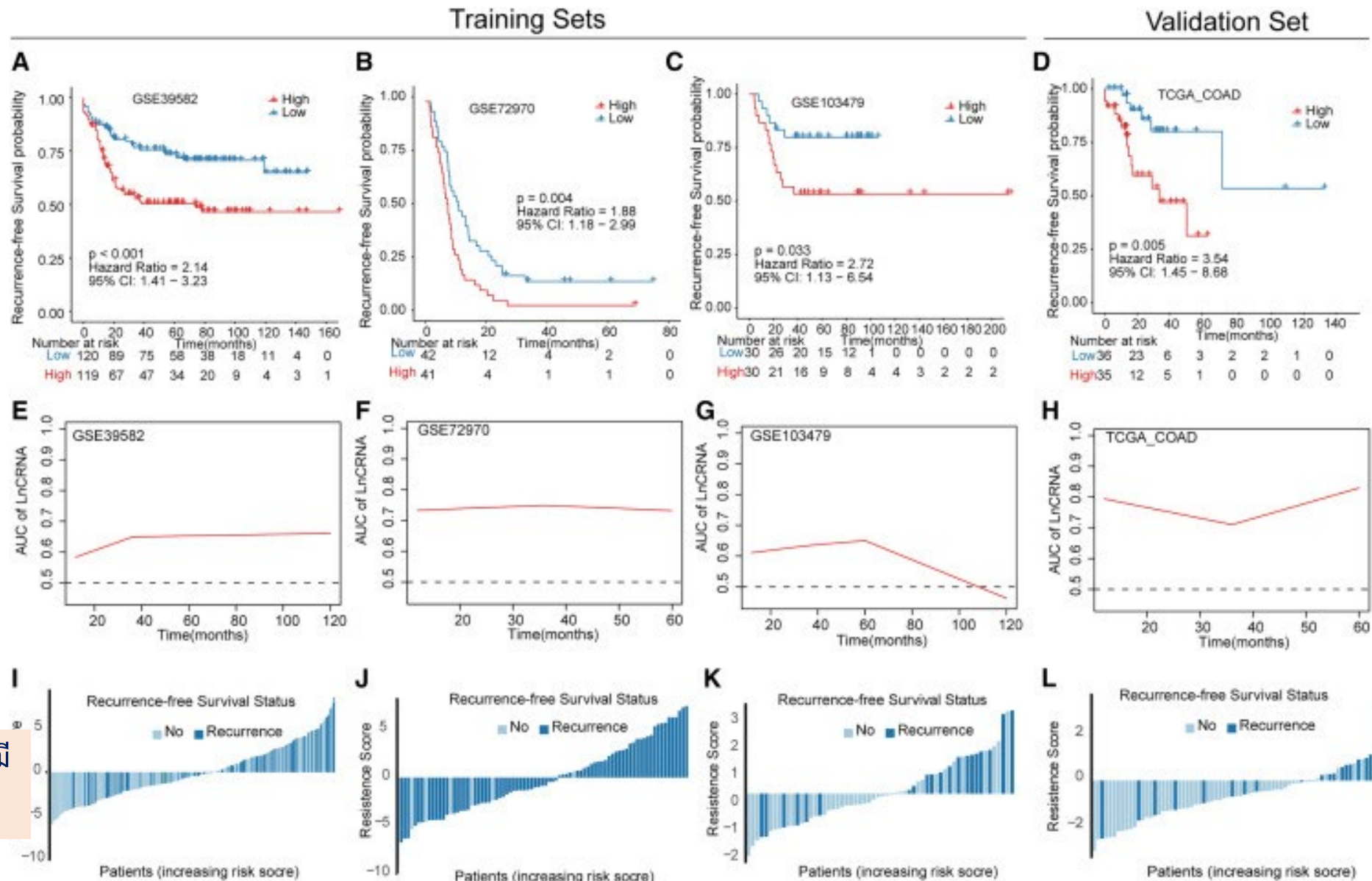
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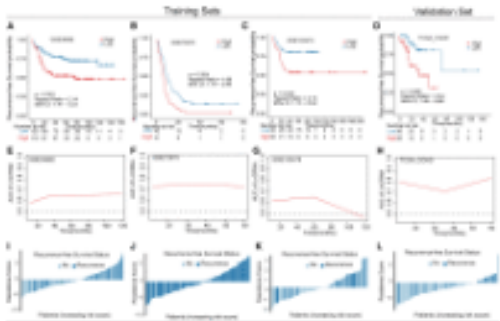


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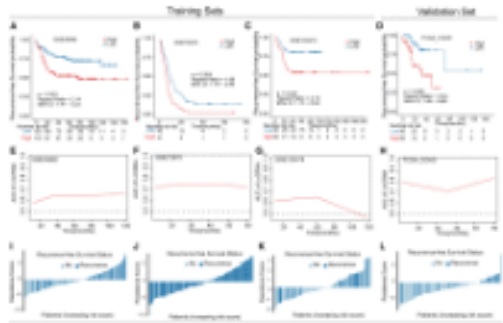


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- CRLSig revealed chemotherapy patients with different RFS rates
- Low CRLSig group had more activated metabolic pathways
- ScRNA-seq analysis revealed stromal cells and epithelial cells had higher CRLSig

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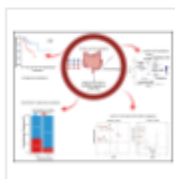
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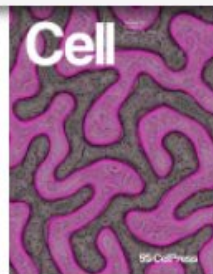
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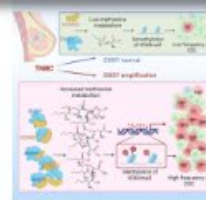


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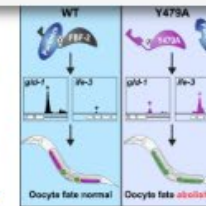
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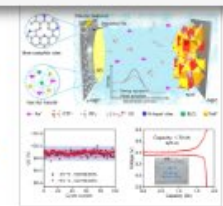
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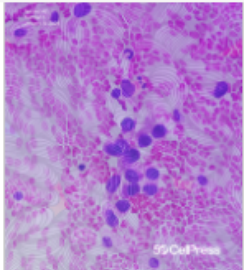
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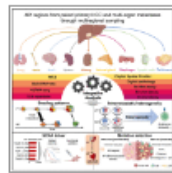
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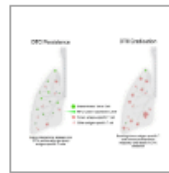


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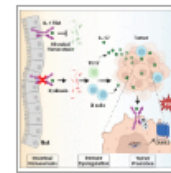


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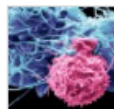


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Engineered natural killer cells show their power against blood cancer



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DNA sensing and repair systems unexpectedly team up against cancer



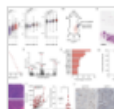
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Silvia Monticelli & Petr Cejka

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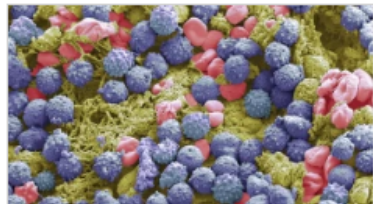
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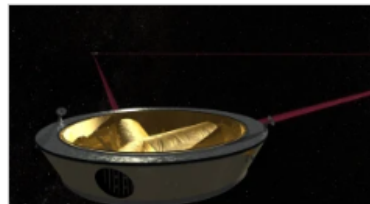
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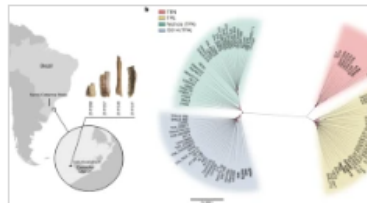
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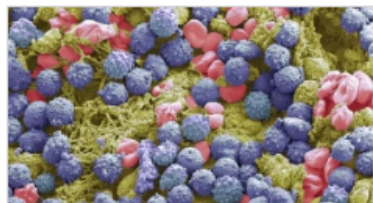
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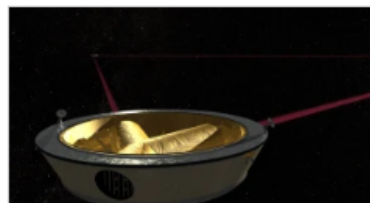
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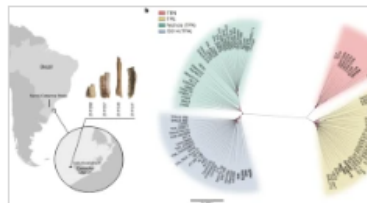
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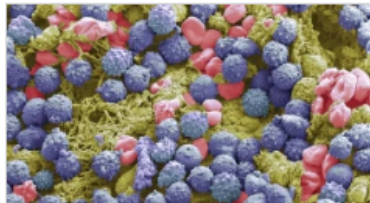
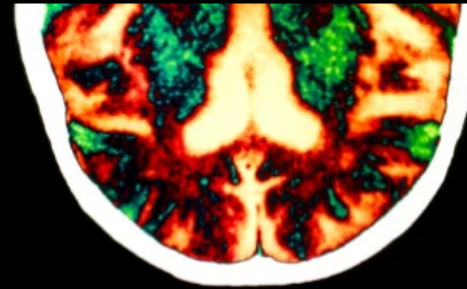
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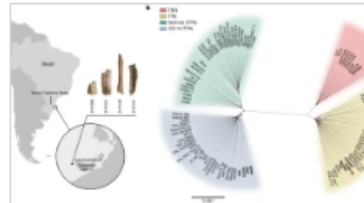
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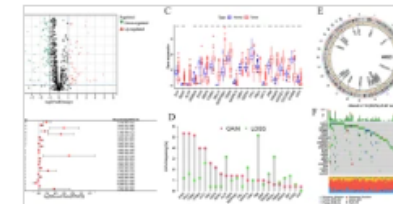
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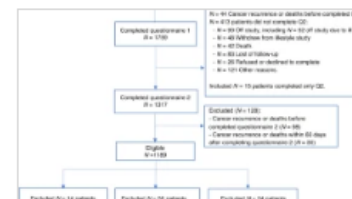
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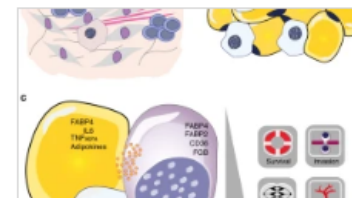
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Bianca Grosser, Jake Emmerson ... Heike I. Grabsch



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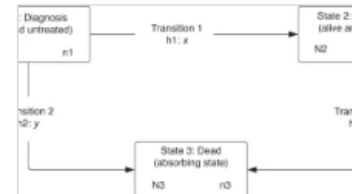
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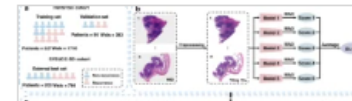


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Background

Tumour-associated fat cells without desmoplastic stroma reaction at the invasion front (Stroma AReactive Invasion Front Areas (SARIFA)) is a prognostic biomarker in gastric and colon cancer. The clinical utility of the SARIFA status in oesophagogastric cancer patients treated with perioperative chemotherapy is currently unknown.

Methods

The SARIFA status was determined in tissue sections from patients recruited into the MAGIC ($n = 292$) or ST03 ($n = 693$) trials treated with surgery alone (S, MAGIC) or perioperative

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Abstract

Background

Tumour-associated fat cells without desmoplastic stroma reaction at the invasion front (Stroma AReactive Invasion Front Areas (SARIFA)) is a prognostic biomarker in gastric and colon cancer. The clinical utility of the SARIFA status in oesophagogastric cancer patients treated with perioperative chemotherapy is currently unknown.

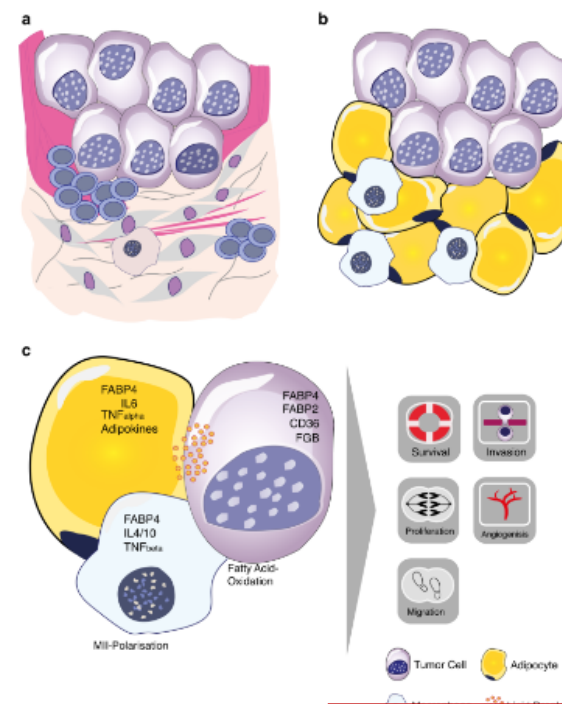
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The SARIFA status was determined in tissue sections from patients recruited into the MAGIC ($n = 292$) or ST03 ($n = 693$) trials treated with surgery alone (S, MAGIC) or perioperative

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Fig. 1: Proposed biological mechanisms at Stroma AReactive Invasion Front Areas (SARIFA).



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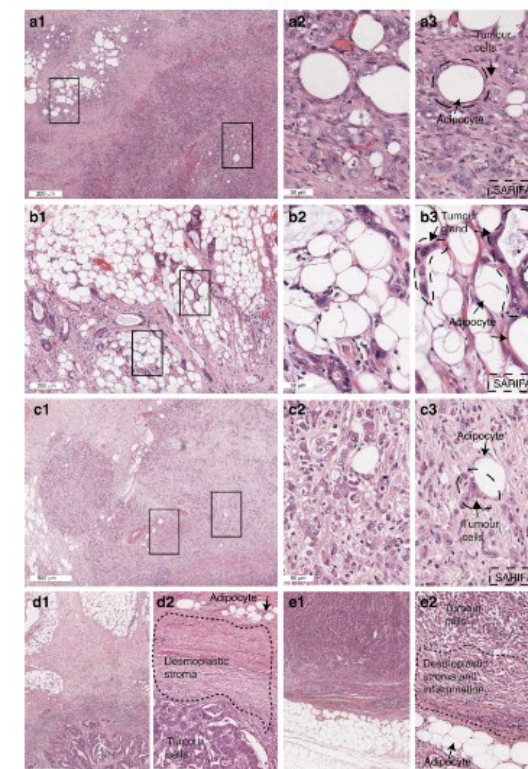
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Fig. 2: Haematoxylin & Eosin-stained images of SARIFA-positive and SARIFA-negative gastric cancer.



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Clinical Studies

Stroma AReactive Invasion Front Areas (SARIFA) improves prognostic risk stratification of perioperative chemotherapy treated oesophagogastric cancer patients from the MAGIC and the ST03 trial

[Bianca Grosser](#), [Jake Emmerson](#), [Nic G. Reitsam](#), [David Cunningham](#), [Matthew Nankivell](#), [Ruth E. Langley](#), [William H. Allum](#), [Martin Trepel](#), [Bruno Märkl](#) ✉ & [Heike I. Grabsch](#) ✉

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> [CA Cancer J Clin.](#) 2021 May;71(3):209-249. doi: 10.3322/caac.21660. Epub 2021 Feb 4.

Global Cancer Statistics 2020: GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries

Hyuna Sung¹, Jacques Ferlay², Rebecca L Siegel¹, Mathieu Laversanne², Isabelle Soerjomataram², Ahmedin Jemal¹, Freddie Bray²

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PMID: 33538338 DOI: 10.3322/caac.21660

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Clinical Studies

Stroma AReactive Invasion Front Areas (SARIFA) improves prognostic risk stratification of perioperative chemotherapy treated oesophagogastric cancer patients from the MAGIC and the ST03 trial

Bianca Grosser¹, Jake Emmerson , Nic G. Reitsam , David Cunningham , Matthew Nankivell⁴, Ruth E. Langley , William H. Allum⁵, Martin Trepel⁶, Bruno Märkl^{1,2,5} and Heike I. Grabsch ^{7,8,23}

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BACKGROUND: Tumour-associated fat cells without desmoplastic stroma reaction at the invasion front (Stroma AReactive Invasion Front Areas (SARIFA)) is a prognostic biomarker in gastric and colon cancer. The clinical utility of the SARIFA status in oesophagogastric cancer patients treated with perioperative chemotherapy is currently unknown.

METHODS: The SARIFA status was determined in tissue sections from patients recruited into the MAGIC ($n = 292$) or ST03 ($n = 693$) trials treated with surgery alone (S, MAGIC) or perioperative chemotherapy (MAGIC, ST03). The relationship between SARIFA status, clinicopathological factors, overall survival (OS) and treatment was analysed.

RESULTS: The SARIFA status was positive in 42% MAGIC trial S patients, 28% MAGIC and 48% ST03 patients after pre-operative chemotherapy. SARIFA status was related to OS in MAGIC trial S patients and was an independent prognostic biomarker in ST03 trial patients (HR 1.974, 95% CI 1.555–2.507, $p < 0.001$). ST03 patients with lymph node metastasis (ypN+) and SARIFA-positive tumours had poorer OS than patients with ypN- and SARIFA-negative tumours ($p_{\text{logrank}} < 0.001$).

CONCLUSIONS: The SARIFA status has clinical utility as prognostic biomarker in oesophagogastric cancer patients irrespective of treatment modality. Whilst underlying biological mechanisms warrant further investigation, the SARIFA status might be used to identify new drug targets, potentially enabling repurposing of existing drugs targeting lipid metabolism.

British Journal of Cancer; <https://doi.org/10.1038/s41416-023-02515-4>

INTRODUCTION

Gastric cancer is ranked as the fifth most common cancer worldwide accounting for ~769,000 cancer-associated deaths in 2020 [1]. The introduction of perioperative or neoadjuvant combination chemotherapy significantly improved the outcome in patients with tumour-node-metastasis (TNM) stage II or III gastric or oesophagogastric cancers [2]. The greatest benefit from perioperative combination chemotherapy seems to come from the preoperative part as in most trials, including MAGIC and ST03, a significant number of patients did not complete the post-operative treatment as originally planned in the protocol. Despite this progress, death due to locally recurrent disease or distant metastasis remains a major challenge [3]. In everyday clinical practice, the clinical decision on the postoperative treatment and

surveillance strategy is highly relevant with regard to tolerability and quality of life. Therefore, there remains an urgent clinical need to identify a biomarker which can predict the risk of recurrent disease and/or overall survival (OS) after neoadjuvant therapy and surgical resection in order to personalise postoperative follow-up and treatment.

Histomorphological biomarker such as tumour budding [4] or tumour-stroma ratio [5], as well as a several molecular classifications have been proposed to predict prognosis or response to therapy in oesophagogastric cancer patients [6, 7]. However, to date, none of these has been introduced into routine clinical practice and TNM disease stage continues to be the only clinically used prognostic parameter informing treatment decision in oesophagogastric cancer patients.

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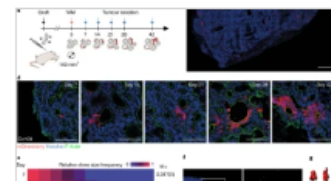
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Volume: 20, P: 1193-1202

Stem cell functionality is microenvironmentally defined during tumour expansion and therapy response in colon cancer

Lenos et al. report that the spatiotemporal regulation of stem cell functionality is not intrinsically determined but environmentally defined during tumour growth and drug response in colon cancer.

Kristiaan J. Lenos, Daniël M. Miedema ... Louis Vermeulen



Research

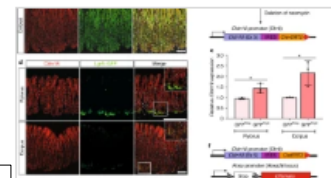
02 Dec 2021

Nature Cell Biology

Volume: 23, P: 1299-1313

A tumour-resident Lgr5⁺ stem-cell-like pool drives the establishment and progression of advanced gastric cancers

Fatehullah et al. develop transgenic and orthotopic mouse models to recapitulate advanced human gastric cancer and uncover a mechanistic role for Lgr5⁺ stem-like cells in promoting disease initiation and progression.



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Research

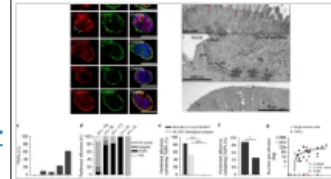
05 Feb 2018

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Volume: 20, P: 296-306

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Reviews

26 Nov 2018

Nature Cell Biology

Volume: 20, P: 1349-1360

Tumour heterogeneity and metastasis at single-cell resolution

Lawson et al. review recent advances in single-cell technologies and discuss in detail how they can be leveraged to understand tumour heterogeneity and metastasis.

Devon A. Lawson, Kai Kessenbrock ... Zena Werb

