

BIOEN 530: UW LIBRARIES SUPPORT FOR BIOENGINEERING GRADUATE STUDENTS

Christina Byrne, UW Engineering Library

Diana Nelson Loudon, UW Health Sciences Library

UW Libraries Support for Bioengineering Grad Students

Bioen 530: Literature Analysis: Home

Important Tools for Grad School & Beyond

- [Current Awareness Alerts](#)
Set up automated searches to catch new articles on topics important to you
- [Journal Tables of Contents](#)
Monitor new issues of selected journals.
- [Citation Managers](#)
Organize your references and PDFs.
Automatically format your citations when writing.



Class Slides - October 3, 2016

- [Librarian Presentation](#)

Contact Your Bioengineering Librarians

We're happy to help you with:

- Research Strategies and Database Searching
- Literature Reviews
- Current Awareness Alerts
- Using Citation Managers
- Tracking Down Difficult-to-Find Information or Publications

 [Diana Loudon](#) and  [Christina Byrne](#)

Key UW Resources for Bioengineering Graduate Students

BIOENGINEERING RESEARCH GUIDE

- Portal to recommended research resources in Bioengineering
- Article databases, technical reports, reference books, & research tips

MATCHING YOUR RESEARCH QUESTION TO A LITERATURE DATABASE

- Biomedical research and clinical care? Try [PubMed](#).
- Engineering articles, conference papers, standards, and technical reports? Try [IEEE](#) or [Engineering Village \(Compendex & INSPEC\)](#).
- Chemistry and biotechnology articles and patents; chemical and material properties? Try [SciFinder](#).
- Citation chasing across the scientific literature (who cited this paper?): Try [Web of Science](#).

DOCUMENT DELIVERY SERVICE



- In article databases, look for a purple "UW Article Online" icon. If there isn't one, click on the "Check for Full Text" icon. You will be led either to the online version of the article or to a document request form. The library's document delivery service will send you a copy free of charge.
- Customize [PubMed](#) to show UW full-text links by [modifying settings in your My NCBI account](#).
- Customize [Google Scholar](#) to show UW full-text links by [modifying settings in your Google account](#).

OFF-CAMPUS ACCESS

- When off-campus, use library links to databases (including PubMed) and journals. You will be prompted to log in with your UW NetID so you will have access to all UW subscriptions.
- Consider setting up [Husky OnNet](#) for off-campus access.

RESEARCH COMMONS

- Get help with writing, designing posters & presentations, and using citation managers.
- Participate in [Scholars' Studio](#) and practice giving a 5-minute presentation for your peers.
- Stay current with [Research Commons events](#).

<http://guides.lib.uw.edu/hsl/bioen530>



The Research Commons is ...

A space for collaboration

Allen Library South – 1st floor




<http://www.lib.washington.edu/commons>

- Writing consultations for grad students
- Citation management help
- Design help desk
- Graduate Funding Information Service
- Scholars' Studio

Finding Scientific Literature

- Use the [Bioengineering Research Guide](#) to identify key subject databases for your topic.
- What do you want to know? Think about both the **subject** and **types of publications**.
 - Peer-reviewed journal articles? Technical reports? Material properties? Lab protocols? Books?
- Understand **structured databases** vs. Google Scholar
 - Structured databases give you access to universes of literature not easily found by Google
 - Structured databases get rid of the “noise”

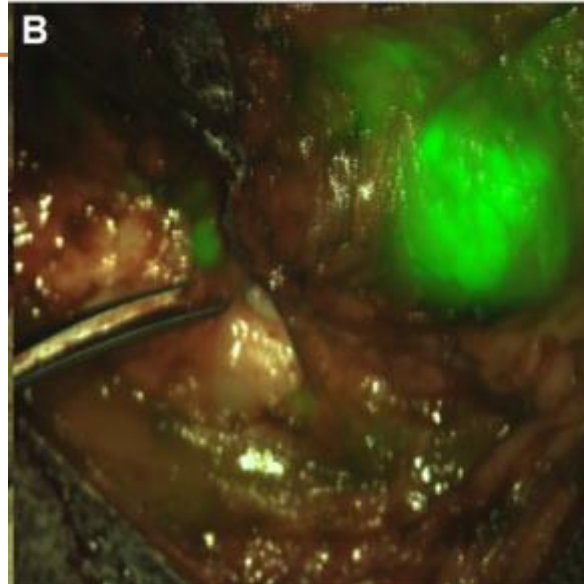
Databases for Finding Scientific Literature

What Are You Looking For?	Recommended Databases
Biomedical research or clinical care articles	<u>PubMed</u>
Engineering articles, conference publications, & other technical publications	<u>IEEE</u>  <u>Compendex and Inspec</u>  (Engineering Village)
Chemistry and biotechnology articles, patent publications	<u>SciFinder</u>  Register for an account first.
Cited reference searching across a wide range of subjects	<u>Web of Science</u> 

See the [Bioengineering Research Guide](#) for many more databases and other resources. Contact your bioengineering librarians for assistance.

BLZ-100 is the first Tumor Paint product candidate that is being developed for cancer surgery in multiple solid tumor types. BLZ-100 is a drug administered by IV injection that circulates within the body and “light ups” cancer cells. It consists of an Optide, which binds and internalizes into cancer cells, and a fluorescent dye, which emits light in the near-infrared range.

Preclinical utility of BLZ-100 has been demonstrated in a wide range of cancer types, including brain, breast, prostate, lung, colorectal, skin, and sarcomas. BLZ-100 is currently in multiple Phase 1 clinical trials.



BLZ-100

Blaze has an ongoing collaboration with the Fred Hutchinson Cancer Research Center focused on the discovery and development of Optide-based products for use as guided therapeutics.

** Optides, or “optimized peptides,” are tiny molecules originally derived from natural organisms, such as scorpions, violets and sunflowers and optimized for drug-like properties in the research laboratory.*

Searching for Drugs, Devices, & Diagnostics

- **Description of technology, molecular structure, or mechanism of action**
 - tumor-targeting fluorescent imaging agent;
 - chlorotoxin-indocyanine green imaging agent;
 - chlorotoxin-Cy5.5 bioconjugate for intraoperative visualization of cancer foci
- **Lab code** – BLZ-100; CyTP 007
- **CAS Registry Number** - 1673565-40-6
- **Nickname** – Tumor Paint
- **Non-proprietary (generic) name** – tozuleristide
- **Proprietary (brand) name** – N/A

Research Article

Tumor Paint: A Chlorotoxin: Cy5.5 Bioconjugate for Intraoperative Visualization of Cancer Foci

2007 article by inventor

Mandana Veisheh,¹ Patrik Gabikian,² S-Bahram Bahrami,¹ Omid Veisheh,³ Miqin Zhang,^{2,3} Robert C. Hackman,^{1,4} Ali C. Ravanpay,^{1,8} Mark R. Stroud,¹ Yumiko Kusuma,¹ Stacey J. Hansen,¹ Deborah Kwok,¹ Nina M. Munoz,¹ Raymond W. Sze,⁵ William M. Grady,^{6,10,11} Norman M. Greenberg,¹ Richard G. Ellenbogen,^{2,9} and James M. Olson^{1,4,7,8,9}

¹Clinical Research Division, Fred Hutchinson Cancer Research Center; Departments of ²Neurosurgery, ³Material Science, ⁴Pathology, ⁵Radiology, ⁶Medicine, and ⁷Pediatrics, and ⁸Program in Neurobiology and Behavior, University of Washington; ⁹Children's Hospital and Regional Medical Center; and ¹⁰Puget Sound Health Care System, Seattle, Washington; and ¹¹Cancer Biology Department, Vanderbilt University Medical School, Nashville, Tennessee

Nonclinical Profile of BLZ-100, a Tumor-Targeting Fluorescent Imaging Agent

Julia Parrish-Novak¹, Kelly Byrnes-Blake², Narine Lalayeva³, Stefanie Burleson⁴, Janean Fidel⁵, Rhonda Gilmore⁶, Pamela Gayheart-Walsten⁶, Gregory A. Bricker⁶, William J. Crumb Jr⁷, K. S. Tarlo⁸, Stacey Hansen¹, Valorie Wiss⁵, Errol Malta⁹, William S. Dernelle⁵, James M. Olson¹⁰, and Dennis M. Miller^{1,9}

International Journal of Toxicology
2017, Vol. 36(2) 104-112
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sagepub.com/journalsPermissions.nav
DOI: 10.1177/1091581817697685
journals.sagepub.com/home/ijt



2017 article by inventor
& Blaze scientists

Google Scholar

molecules like tumor paint|



3rd most “relevant” paper out of ~27,500 documents

Tributyltin or triphenyltin inhibits aromatase activity in the human granulosa-like tumor cell line KGN

M Saitoh, T Yanase, [H Morinaga](#), M Tanabe... - Biochemical and ..., 2001 - Elsevier

... of the dog-whelk, *Nucella lapillus*, caused by imposex induced by tributyltin from antifouling **paints**. ...
Establishment and characterization of a steroidogenic human granulosa-like **tumor** cell line, KGN that ... 2001, The Journal of Steroid Biochemistry and **Molecular** Biology more. ...

☆  Cited by 149 [Related articles](#) [All 9 versions](#)

How to find something when you don't know exactly what you're looking for?

Evaluating the Research Landscape



Bioconjugates
incorporating
fluorescent dyes

Molecules & technology
like Tumor Paint

Tumor visualization

Improving cancer resection by
identifying tumor margins

Identify the Concepts You Care About

I want to review the literature to find molecules and techniques for using fluorescence for the intraoperative visualization of solid tumors.

- ❑ a **fluorescent** dye
- ❑ intraoperative visualization of **cancer** cells
- ❑ more precise, complete **resection** of solid tumors

Keyword Generation for your Concepts

- **Fluorescence**, fluorescent, fluorogenic, beacon, dye, visualization, indocyanine green (name of an FDA-approved dye used in diagnostics)
- **Cancer**, tumor, carcinoma, glioblastoma
- **Surgery**, surgical, resection, intraoperative

Defining What You're Looking For: Creating a Keyword Search Strategy

AND and **OR** tell the database to combine keywords in a particular way.

AND = returns results that include ALL of the keywords/criteria (narrows the search)

cancer **AND** surgery

OR = returns results that meet AT LEAST ONE of the keywords/criteria (broadens the search)

cancer **OR** tumor **OR** carcinoma

Defining What You're Looking For: Creating a Search Strategy

- **Quotation Marks (“) e.g., “cancer surgery”**
 - tell the database to look for this exact phrase. It's literal!
“cancer surgery” ≠ “cancer surgeries”
- **Asterisk (*) e.g., detect***
 - lets you search for variations of words.
detect* captures detect, detects, detecting, detection
- **Parentheses () e.g., (cancer OR tumor) AND surgery**
 - used in your strategy to organize groupings of words and how they're combined.

Searching for a Combination of 3 Concepts:

(1) beacon; (2) cancer; and (3) surgery

(fluoresc* OR fluorogen* OR dye OR dyes OR beacon*
OR visuali* OR "indocyanine green")

AND

(cancer OR tumor OR carcinoma)

AND

(surger* OR surgic* OR resect* OR intraoperat*)

Using PubMed Advanced Search

PubMed Advanced Search Builder



```
((((fluorescen* OR dye OR dyes OR visuali* OR beacon* OR "indocyanine green"))) AND ((cancer OR tumor OR carcinoma))) AND ((surger* OR surgic* OR resect* OR intraoperat*))
```

[Edit](#)

[Clear](#)

Builder

	All Fields	(fluorescen* OR dye OR dyes OR visuali* OR beacon* OR "indocyanine green")	⊖	Show index list
AND	All Fields	(cancer OR tumor OR carcinoma)	⊖	Show index list
AND	All Fields	(surger* OR surgic* OR resect* OR intraoperat*)	⊖	Show index list
AND	All Fields		⊖ ⊕	Show index list

or [Add to history](#)

Search results

Items: 1 to 20 of **26374**

<< First < Prev Page of 1319 [Next >](#) [Last >>](#)

- [Chairside molecular imaging of aberrant glycosylation in subjects with suspicious oral lesions using 1. **fluorescently** labeled wheat germ agglutinin.](#)

Baeten J, Johnson A, Sunny S, Suresh A, Birur P, Uma K, Kademani D.

Head Neck. 2017 Sep 30. doi: 10.1002/hed.24943. [Epub ahead of print]

PMID: 28963821

Search Refinement

PubMed Advanced Search Builder

YouTube

```
((((fluorescen* OR dye OR dyes OR visuali* OR beacon* OR "indocyanine green")) AND ((cancer OR tumor OR carcinoma))) AND ((surger* OR surgic* OR resect* OR intraoperat*)) AND ((bioconjugate* OR conjugat* OR immunoconjugat*))
```

[Edit](#)

[Clear](#)

Builder

All Fields	(((fluorescen* OR dye OR dyes OR visuali* OR beacon* OR "indocyanine green")) AND ((⊖	Show index list
AND	All Fields	(bioconjugate* OR conjugat* OR immunoconjugat*)	⊖ Show index list
AND	All Fields		⊖ ⊕ Show index list

[Search](#) or [Add to history](#)

Search results

Items: 1 to 20 of **544**

<< First < Prev Page 1 of 28 Next > Last >>

- [Evaluation of a Centyrin-based near-infrared probe for **fluorescence**-guided **surgery** of epidermal growth factor receptor positive tumors.](#)

Mahalingam SM, Dudkin VY, Goldberg S, Klein D, Yi F, Singhal S, O'Neil KT, Low PS.
Bioconjug Chem. 2017 Sep 25. doi: 10.1021/acs.bioconjchem.7b00566. [Epub ahead of print]
PMID: 28945346

Use Filters to Refine Results

- Animal studies or clinical studies?
- Recent publications or many years back?
- Written in English or written in another language?
- Publication Types (clinical trials, review articles)
- Authors/affiliations

Also consider adding or removing words or concepts.

Article types

Clinical Trial

✓ Review

Customize ...

Text availability

Abstract

Free full text

Full text

PubMed Commons

Reader comments

Trending articles

Publication dates

5 years

10 years

Custom range...

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Send to ▾

Search results

Items: 1 to 20 of 48

<< First < Prev Page 1 of 3 Next > Last >>

Filters activated: Review, English. [Clear all](#) to show 544 items.

[Development of Molecular Probes Based on Iron Oxide Nanoparticles for in Vivo Magnetic Resonance/Photoacoustic Dual Imaging of Target Molecules in Tumors.](#)

1. Sano K.
Yakugaku Zasshi. 2017;137(1):55-60. doi: 10.1248/yakushi.16-00228. **Review.**
PMID: 28049896 **Free Article**
[Similar articles](#)

[Selecting Targets for Tumor Imaging: An Overview of Cancer-Associated Membrane Proteins.](#)
Geus SW, Prevoo HA, Hawinkels LJ, van de Velde CJ, Kuppen PJ, Vahrmeijer AL,

6 Sep 27;8:119-133. eCollection 2016. **Review.**
Free PMC Article

[Possible--Dyes in surgical oncology.](#)

SJ.
;25(1):30-6. doi: 10.1016/j.suronc.2015.12.004. Epub 2015 Dec 23. **Review.**

[Fluorescence-Guided Surgery of Pancreatic Cancer.](#)

n RM.
ogy. 2015 May;62(139):715-22. **Review.**

Additional filters

- Article types
- Text availability
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Show



Web of Science

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Web of Science Core Collection

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[Advanced Search](#)

[+ More](#)

(fluorescen* OR dye OR dyes OR visual* OR beacon*)

Topic

Search

[+ Add Another Field](#) | [Reset Form](#)

Basic Search

(fluoresc* OR fluorogen* OR dye OR dyes OR beacon* OR "indocyanine green")

Topic

AND

(Bioconjugat* OR conjugat* OR crosslink* OR cross link* OR ligati

Topic

AND

(cancer OR tumor OR carcinoma)

Topic

AND

(surger* OR surgic* OR resect* OR intraoperat*)

Topic

Search

[+ Add Another Field](#) | [Reset Form](#)

Results: 337

(from Web of Science Core Collection)

You searched for: TOPIC:

((fluoresc* OR fluorogen* OR dye OR dyes OR beacon* OR "indocyanine green")) AND TOPIC:

((Bioconjugat* OR conjugat* OR crosslink* OR cross link* OR ligation)) AND TOPIC: ((cancer OR tumor OR carcinoma)) AND TOPIC: ((surger* OR surgic* OR resect* OR intraoperat*)) ...More

Create Alert

Refine Results

Search within results for...

Web of Science Categories

- ONCOLOGY (73)
- SURGERY (71)
- CHEMISTRY MULTIDISCIPLINARY (32)
- BIOCHEMICAL RESEARCH METHODS (31)
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more options / values...

Refine

Document Types

- ARTICLE (306)
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- MEETING ABSTRACT (5)
- EDITORIAL MATERIAL (3)

more options / values...

Refine

Sort by: Publication Date -- newest to oldest

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- Recently Added
- Times Cited -- highest to lowest
- Times Cited -- lowest to highest
- Usage Count -- Last 180 days
- Usage Count -- Since 2013
- Relevance

Save online Add to Marked List

Select

1.

for right-sided colon cancer
et al.
INTERVENTIONAL TECHNIQUES Volume: 30 Issue: 10 Pages:
Check for Full Text View Abstract

2.

A novel endoscopic fluorescent band ligation method for tumor localization
By: Hyun, Jong Hee; Kim, Seok-Ki; Kim, Kwang Gi; et al.
SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES Volume: 30 Issue: 10 Pages: 4659-4663 Published: OCT 2016
Check for Full Text View Abstract

3.

Synthesis and systematic evaluation of symmetric sulfonated centrally C-C bonded cyanine near-infrared dyes for protein labelling
By: van der Wal, Steffen; Kuil, Joeri; Valentijn, A. Rob P. M.; et al.
DYES AND PIGMENTS Volume: 132 Pages: 7-19 Published: SEP 2016
Check for Full Text View Abstract

4.

KE108-conjugated unimolecular micelles loaded with a novel HDAC inhibitor thailandepsin-A for targeted neuroendocrine cancer therapy
By: Chen, Guojun; Jaskula-Sztul, Renata; Harrison, April; et al.
BIOMATERIALS Volume: 97 Pages: 22-33 Published: AUG 2016
Check for Full Text View Abstract

5.

Indocyanine green as effective antibody conjugate for intracellular molecular targeted photodynamic therapy
By: Wang, Sijia; Huettmann, Gereon; Rudnitzki, Florian; et al.
JOURNAL OF BIOMEDICAL OPTICS Volume: 21 Issue: 7 Article Number: 078001 Published: JUL 2016
Check for Full Text View Abstract

6.

Real-Time Indocyanine Green Fluorescence Imaging-Guided Complete Mesocolic Excision in Laparoscopic Flexural Colon Cancer Surgery
By: Watanabe, Jun; Ota, Mitsuyoshi; Suwa, Yusuke; et al.
DISEASES OF THE COLON & RECTUM Volume: 59 Issue: 7 Pages: 701-705 Published: JUL 2016
Check for Full Text View Abstract

Analyze Results
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Citation Chasing: Web of Science

This screenshot shows the article page for "Terrestrial meiofauna and contaminated land assessment" in the journal "Environmental Science & Technology". The page includes the title, authors (Ry, Yoon, and others), journal information, abstract, keywords, author information, and classification. A large black box with the year "2000" is overlaid on the bottom right of the page.



This screenshot shows the article page for "Citation-dependent and independent approaches for assessing technical diversity in R&D: Reconceptualized and..." in the journal "Research Policy". The page includes the title, authors, journal information, abstract, and keywords. A large black box with the year "2003" is overlaid on the bottom right of the page.

This screenshot shows the article page for "Research connectivity in commercialized drug pipelines" in the journal "Journal of Pharmaceutical Innovation and Business". The page includes the title, authors, journal information, abstract, and keywords. A large black box with the year "2007" is overlaid on the bottom right of the page.

This screenshot shows the article page for "Research connectivity in commercialized drug pipelines" in the journal "Journal of Pharmaceutical Innovation and Business". The page includes the title, authors, journal information, abstract, and keywords. A large black box with the year "2013" is overlaid on the bottom right of the page.

Tumor Paint: A Chlorotoxin: Cy5.5 Bioconjugate for Intraoperative Visualization of Cancer Foci

Who has cited this 2007 article?

Mandana Veisheh,¹ Patrik Gabikian,² S-Bahram Bahrami,¹ Omid Veisheh,³ Miqin Zhang,^{2,3} Robert C. Hackman,^{1,4} Ali C. Ravanpay,^{1,8} Mark R. Stroud,¹ Yumiko Kusuma,¹ Stacey J. Hansen,¹ Deborah Kwok,¹ Nina M. Munoz,¹ Raymond W. Sze,⁵ William M. Grady,^{6,10,11} Norman M. Greenberg,¹ Richard G. Ellenbogen,^{2,9} and James M. Olson^{1,4,7,8,9}

¹Clinical Research Division, Fred Hutchinson Cancer Research Center; Departments of ²Neurosurgery, ³Material Science, ⁴Pathology, ⁵Radiology, ⁶Medicine, and ⁷Pediatrics, and ⁸Program in Neurobiology and Behavior, University of Washington; ⁹Children's Hospital and Regional Medical Center; and ¹⁰Puget Sound Health Care System, Seattle, Washington; and ¹¹Cancer Biology Department, Vanderbilt University Medical School, Nashville, Tennessee

Abstract

Toward the goal of developing an optical imaging contrast agent that will enable surgeons to intraoperatively distinguish cancer foci from adjacent normal tissue, we developed a chlorotoxin: Cy5.5 (CTX: Cy5.5) bioconjugate that emits near-IR fluorescent signal. The probe delineates malignant glioma, medulloblastoma, prostate cancer, intestinal cancer, and sarcoma from adjacent non-neoplastic tissue in mouse models. Metastatic cancer foci as small as a few hundred cells were detected in lymph channels. Specific binding to cancer cells is facilitated by matrix metalloproteinase-2 (MMP-2) as evidenced by reduction of CTX: Cy5.5 binding *in vitro* and *in vivo* by a pharmacologic blocker of MMP-2 and induction of CTX: Cy5.5 binding in MCF-7 cells following transfection with a plasmid encoding MMP-2. Mouse studies revealed that CTX: Cy5.5 has favorable biodistribution and toxicity profiles. These studies show that CTX: Cy5.5 has the potential to fundamentally improve intraoperative detection and resection of malignancies. [Cancer Res 2007;67(14):6882–8]

Introduction

For many types of cancer, the precision of surgical resection directly influences patient prognosis. Unfortunately, intraoperative identification of tumor margins or small foci of cancer cells remains imprecise or depends on surgical judgment. Thus, the extent of surgical resection is constrained by the requirement to avoid harming vital healthy structures. Nowhere is this more problematic than in the brain, where >80% of malignant cancers

to specifically illuminate tumor cells with targeted molecular beacons.

We developed and conducted preclinical evaluation of a molecular imaging bioconjugate composed of chlorotoxin (CTX) and Cy5.5. CTX is a 36 amino acid peptide with four disulfide bridges. CTX is thought to bind to a lipid raft-anchored complex that contains matrix metalloproteinase-2 (MMP-2), membrane type-1 MMP, and transmembrane inhibitor of metalloproteinase-2 (TIMP2), as well as ClC-3 chloride ion channels, and other proteins (2, 3). Upon CTX binding, the complex is postulated to be internalized into the cell, eliminating the functional chloride ion channel (2, 3). Several studies showed that CTX binds preferentially to glioma cells compared with non-neoplastic cells or normal brain (2, 4, 5). A radiopharmaceutical bound to synthetic chlorotoxin, ¹³¹I-TM-601, showed safety in phase I/II clinical trials for human brain cancer therapy based on an acceptable safety profile in preclinical studies (6).


Cy5.5 is a fluorescent molecular beacon that emits photons in the near-IR (NIR) spectrum. Because photons of this wavelength are minimally absorbed by water or hemoglobin, NIR beacons are well suited for intraoperative imaging (7, 8). Previous attempts to image brain tumors by NIR have focused on targeting the probe to inflammatory microglia around the tumor or using probes that require proteolytic cleavage for activation (9, 10). The former approach is challenging because the presence of microglia correlates poorly, if at all, with margins of many brain tumors. Furthermore, to reduce perioperative brain edema, patients are treated with dexamethasone, which is a potent inhibitor of microglial activation. These factors, coupled with preference for a

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Tumor paint: a chlorotoxin:cy5.5 bioconjugate for intraoperative visualization

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Tumor paint: A Chlorotoxin : Cy5.5 bioconjugate for intraoperative visualization of cancer foci

By: Veiseh, Mandana; Gabikian, Patrik; Bahrami, S-Bahram; et al.
CANCER RESEARCH Volume: 67 Issue: 14 Pages: 6882-6888 Published: JUL 15 2007



Times Cited: 224
(from Web of Science Core Collection)

Usage Count 

Citation Chasing is a Good Complement to Searching for Words in Titles and Abstracts

1. **ZNF131 suppresses centrosome fragmentation in glioblastoma stem-like cells through regulation of HAUS5**

By: Ding, Yu; Herman, Jacob A.; Toledo, Chad M.; et al.

ONCOTARGET Volume: 8 Issue: 30 Pages: 48545-48562 Published: JUL 25 2017



[View Abstract](#)

2. **RGD/CTX-conjugated multifunctional Eu-Gd2O3 NRs for targeting detection and inhibition of early tumor**

By: Wu, Zhi; Huang, Zhongbing; Yin, Guangfu; et al.

JOURNAL OF MATERIALS CHEMISTRY B Volume: 5 Issue: 25 Pages: 4863-4875 Published: JUL 7 2017



[View Abstract](#)

3. **Fluorescent chemical probes for accurate tumor diagnosis and targeting therapy**

By: Gao, Min; Yu, Fabiao; Lv, Changjun; et al.

CHEMICAL SOCIETY REVIEWS Volume: 46 Issue: 8 Pages: 2237-2271 Published: APR 21 2017



[View Abstract](#)

4. **Fluorescence lifetime-based contrast enhancement of indocyanine green-labeled tumors**

By: Kumar, Anand T. N.; Carp, Stefan A.; Yang, Jing; et al.

JOURNAL OF BIOMEDICAL OPTICS Volume: 22 Issue: 4 Article Number: 040501 Published: APR 2017



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MATCHING YOUR RESEARCH QUESTION TO A LITERATURE DATABASE

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