

Fluorescence guided intraluminal endoscopy in the gastrointestinal tract: A systematic review

Olivia Engholt Mortensen, Nikolaj Nerup, Morten Thorsteinsson, Morten Bo Søndergaard Svendsen, Hironari Shiwaku, Michael Patrick Achiam

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Apr 29, 2015 · Introduction. **Endoscopy** is currently the gold standard for cancer screening **in the gastrointestinal (GI) tract**. This white-light imaging modality enables clinicians to inspect the esophagus, stomach, and colon to detect lesions such as adenomas and carcinomas.

Cited by: 62**Author:** Ellis Garai, Steven Sensarn, Cristina L. ...**Publish Year:** 2015

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Jun 01, 2003 · Clinical experience in **gastrointestinal endoscopy**. Most experimental ex vivo studies and clinical experimental studies have been carried out using **fluorescence** spectroscopy. 5, 6, 11, 17 Various spectral and **fluorescence** imaging systems have been used to analyse the **fluorescence** data. The results have shown sometimes substantial differences between in vitro ...

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In Vivo Fluorescence Imaging of Gastrointestinal Stromal ...

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Gastrointestinal stromal tumor (GIST), the most common mesenchymal tumor of the gut, is often characterized by high expression of KIT. 1,2 While these submucosal neoplasms can arise anywhere **in the gastrointestinal tract**, they most frequently occur in the stomach (40–70 %) and small bowel (20–40 %). 3,4 GISTs arise from the gut pacemaker cells, also known as the interstitial ...

Cited by: 21**Author:** Cristina A. Metildi, Chih Min Tang, Shar...**Publish Year:** 2013

Advanced endoscopic methods in gastrointestinal diseases ...

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Near-infrared **fluorescence guided** esophageal reconstructive surgery: **A systematic review**. Van Daele E1, Van Nieuwenhove Y2, Ceelen W2, Vanhove C3, Braeckman BP4, Hoorens A5, Van Limmen J6, Varin ...

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Jun 01, 2003 · **Endoscopic fluorescence spectroscopy procedures** usually use lasers as light stimulation sources, with wavelengths between 300 and 480 nm. The **light** is introduced into the **gastrointestinal hollow organs** via glass fibres under **endoscopic vision**. The **fluorescence light** can return via the same fibres, or via separate light conductors.

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May 26, 2020 · **Gastrointestinal Endoscopy** publishes original, peer-reviewed articles on endoscopic procedures used in the study, diagnosis, and treatment of **digestive** diseases. Articles report on outcomes research, prospective studies, and controlled trials of new endoscopic instruments and

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Optical Biopsy of the Upper GI Tract Using Fluorescence ...

<https://www.frontiersin.org/articles/10.3389/fphys.2020.00339> ▾

May 13, 2020 - Screening and surveillance for **gastrointestinal (GI) cancers** by **endoscope guided biopsy** is invasive, time consuming, and has the potential for sampling error. **Tissue endogenous fluorescence spectra** contain biochemical and physiological information, which may enable real-time, objective diagnosis.

Author: Zhaojun Nie, Shu-Chi Allison Yeh, Mic... **Publish Year:** 2020

Improving endoscopic resolution and sampling: fluorescence ...

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Jun 01, 2003 - **Endoscopic fluorescence spectroscopy procedures** usually use lasers as light stimulation sources, with wavelengths between 300 and 480 nm. The **light** is introduced into the **gastrointestinal hollow organs** via glass fibres under **endoscopic vision**. The **fluorescence light** can return via the same fibres, or via separate light conductors.

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Activatable fluorescent probes in fluorescence-guided ...

<https://www.sciencedirect.com/science/article/pii/S0968089617321077>

Feb 15, 2018 - There are also weaknesses of **fluorescence** imaging probes in general, such as dilution encountered when body fluids or other liquids are present in the visual field and the difficulty of determining margins of tumor in organs involved in the excretion of the probes such as the kidney, liver, and the **gastrointestinal tract**.^{9, 12, 33} Such probes ...

Cited by: 10 **Author:** Ai Mochida, Fusa Ogata, Tadanobu Naga...

Publish Year: 2017

Fluorescence in rectal cancer surgery - Seeliger - Annals ...

<https://www.elsevier.com/locate/annals-surgery> ▾

Fluorescence-enhanced endoscopy might improve the diagnostic yield. ... An accurate intraoperative evaluation of peri-anastomotic **gastrointestinal tract** perfusion is an essential step to reduce the risk of anastomotic complications such as leakage or strictures. ... Blanco-Colino et al. have published the most up-to-date **systematic review** and ...

Cited by: 12 **Author:** Yixin Wang