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Molecular imaging in endoscopy Michael S Hoetker¹ and Martin Goetz² Abstract Molecular imaging focuses on the molecular signature of cells rather than morphological changes in the tissue. The need for this novel type of imaging arises from the often difficult detection and characterization especially of small and/or premalignant lesions.

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Affinity peptides were used for molecular diagnostics in gastrointestinal imaging using both confocal laser endomicroscopy and macroscopic fluorescence endoscopy: after topical administration of a fluorescently

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labelled heptapeptide on 18 neoplastic lesions during ongoing colonoscopy, strong binding to dysplastic cells could be observed via pCLE with sensitivity and specificity of 81 and 82%, respectively. 12 A different peptide, also targeting colonic dysplasia, was used successfully for ...

Molecular imaging in endoscopy - Michael S Hoetker, Martin ...

Molecular imaging may be defined as the non invasive, real time monitoring of biochemical activity at the molecular and cellular level of living cells, tissues and intact subjects. 6-9 With the help of specialized instrumentation and imaging agents, physicians are able to characterize tissue based on cellular markers (Fig. 1). Although anatomy plays a major role in diagnosis and treatment strategies of luminal gastrointestinal disorders, the significant growth of molecular imaging may ...

Molecular endoscopic imaging in cancer - Ahmed - 2018 ...

Molecular Imaging In Endoscopy Author Techniques. For macroscopic molecular imaging, fluorescence Page 3/29. Download Free Molecular Imaging In Endoscopy Author S 2013 wide-field endoscopes can be used. At this time, most groups employ customized or experimental endoscopes. 1 – 6 In the

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Endoscopy, I. Medical Clinic and Polyclinic, University Hospital Mainz, Johannes Gutenberg University Mainz, Mainz, Germany. Molecular endoscopic imaging: the future is bright. Molecular Imaging In Endoscopy Author S 2013 In the past years various new technological and molecular probes have been successfully utilized for molecular imaging.

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In an ex vivo study, Bird-Lieberman and colleagues 42 described a molecular imaging approach, wherein fluorescence endoscopy and a fluorescently labeled lectin wheat germ agglutinin (WGA) were used to investigate the changes in the glycan expression on the epithelial cell surface, which is associated with the progression of BE toward adenocarcinoma.

Molecular endoscopic imaging: the future is bright ...

Molecular endoscopic imaging: the future is bright. Ahmed S(1), Galle PR(1), Neumann H(1). Author information: (1)Department of Interdisciplinary Endoscopy, I. Medical Clinic and Polyclinic, University Hospital Mainz, Johannes Gutenberg University Mainz, Mainz, Germany.

Molecular endoscopic imaging: the future is bright.

Affinity peptides were used for molecular diagnostics in gastrointestinal imaging using both confocal laser endomicroscopy and macroscopic fluorescence endoscopy: after topical administration of a fluorescently labelled heptapeptide on 18 neoplastic lesions during ongoing colonoscopy, strong binding to dysplastic cells could be observed via pCLE with sensitivity and specificity of 81 and 82%, respectively. 12 A different peptide, also targeting colonic dysplasia, was used successfully for ...

Molecular imaging in endoscopy - PubMed Central (PMC)

Molecular imaging is a rapidly growing new discipline in gastrointestinal endoscopy. It uses the molecular signature of cells for minimally-invasive, targeted imaging of gastrointestinal pathologies. Molecular imaging comprises wide field techniques for the detection of lesions and microscopic

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techniques for in vivo characterization.

Molecular Imaging in Gastrointestinal Endoscopy

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Molecular imaging in gastroenterology: A route for personalized endoscopy. Klenske E(1), Neurath MF(1), Atreya R(1), Rath T(2). Author information: (1)Department of Medicine I, Division of Gastroenterology, Ludwig Demling Endoscopy Center of Excellence, University Hospital of Erlangen, Germany.

Molecular imaging in gastroenterology: A route for ...

The emergence of molecular imaging has been driven by the difficulties associated with cancer detection,

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particularly early stage premalignant lesions which are often unnoticed as a result of minimal or no structural changes. Endoscopic surveillance is the standard method for early stage cancer detection.

Molecular endoscopic imaging in cancer - Ahmed - 2018 ...

The future of endoscopic diagnosis is likely to be affected by a combination of biomarkers and technology,¹² and endoscopic molecular imaging can be defined as visualization of molecular characteristics; it has been described as immunoscopy,¹³ bioendoscopy,¹⁴ and optical biopsy.¹⁵ Before endoscopic molecular imaging can be realized, three prerequisites must be available: 1) more target-specific and highly sensitive biomarkers for clinical use; 2) fluorochromes that have a high affinity for ...

Endoscopic Molecular Imaging: Status and Future Perspective

Molecular imaging in gastroenterology has become more feasible with recent advances in imaging technology, molecular genetics, and next-generation biochemistry, in addition to advances in endoscopic imaging techniques including magnified high-resolution endoscopy, narrow band imaging or autofluorescence imaging, flexible spectral imaging color enhancement, and confocal laser endomicroscopy.

Molecular Imaging for Theranostics in Gastroenterology ...

Molecular imaging is an integrative endoscopic approach in which single cellular structures or molecules are labelled with fluorescently labelled probes and subsequently detected with endoscopic devices, thereby enabling visualization of single molecules or receptors in vivo during endoscopy.

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Molecular imaging within the lower gastrointestinal tract ...

Molecular components of the mucosa, such as type 1 collagen, can be imaged without requiring fluorophores based on specific autofluorescence or second-harmonic generation. 42 Recently, multiphoton imaging endoscopy has been used to image the changes in tissue morphology in a mouse model of colitis, showing collagen deposition over time, but no macroscopic change could be observed by conventional endoscopy . 43 Multiphoton microscopy systems undergoing miniaturization will most likely become ...

Toward Molecular Imaging of Intestinal Pathology ...

The emergence of molecular imaging has been driven by the difficulties associated with cancer detection, particularly early-stage premalignant lesions which are often unnoticed as a result of minimal or no structural changes. Endoscopic surveillance is the standard method for early-stage cancer detection.

Molecular endoscopic imaging in cancer

Endoscopic molecular imaging using a cancer-specific tracer-targeted fluorophore with a paired detection medical device has shown potential to improve tumor detection and provide clear surgical margins in several preclinical studies. 27, 28 Simultaneously, this diagnostic molecular imaging technology can be applied directly as an adjuvant PIT to improve oncological outcomes and, thus, recurrence-free and overall survival rates.

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