



Transforming Cancer Imaging: Molecular Insights via Endoscopy

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Abstract

Cancer imaging has undergone a remarkable transformation with the advent of molecular insights via endoscopy. This review article delves into the cutting-edge developments and applications of this innovative approach, highlighting its potential to revolutionize cancer diagnosis and treatment. Recently, great advancements have been made in endoscopic multimodal systems, allowing for improved resolution, greater tissue penetration, and multispectral imaging. In addition, molecular targets. Integration of these new endoscopic instruments with molecular probes provides a unique opportunity targeted therapy, and personalized medicine.

Keywords: E ; Ca ; I a ; S a

Introduction

Molecular Endoscopy: A Paradigm Shift

T a a , a a a . H , a

Applications in Gastrointestinal Oncology

Colorectal Cancer: M a a a a
 a APC a KRAS a a . Ta a a
 a a a a a a

Esophageal and Gastric Cancer: E

Advancements in Respiratory Oncology

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a a EGFR a a ALK a a 7.

Bronchoscopic Navigation: M a a a , a a

Urological Oncology

E a a a a a a
a : a a

Bladder Cancer: D a a a a a a a a

Prostate Cancer: Ta a a a

Emerging Applications

Gynecological Oncology: M a a a a a a a a a

Neuroendoscopy: Ex a a a a a a a a

Recent advances in endoscopic molecular imaging

B a a , a
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 (EGFR), ()13()-5() -3(a)-8()-7.9()8(a)9()1