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Artificial intelligence for the study of colorectal cancer tissue slides

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Abstract

Artificial intelligence (AI) is incredibly gaining momentum as companion diagnostic in a number of fields in oncology. In the present mini-review we summarize main uses

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Artificial intelligence-guided tissue analysis combined ...

https://www.ncbi.nlm.nih.gov/pubmed/31780575

with **colon cancer**. However, additional prognostic markers could be detected on **pathological slides** using **artificial intelligence tools**. DESIGN: We have developed a software to detect **colon tumour**, healthy mucosa, stroma and immune cells on CD3 and CD8 **stained slides**. The **lymphocyte density** and

Author: Cynthia Reichling, Julien Taieb, Vale... **Publish Year:** 2020

Artificial intelligence classifies colorectal cancer using ...

https://news.rub.de/english/press-releases/2020-06-24-protein-research-artificial...

Jun 24, 2020 · The method recognises **cancer tissue** without prior staining or other marking and, consequently, also works automatically with the aid of **artificial intelligence**. Unlike the conventional differential diagnosis of microsatellite status, which takes about one day, the new method requires only about half an hour.

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https://gut.bmj.com/content/69/4/681

Apr 01, 2020 · **Objective Diagnostic tests**, such as Immunoscore, predict prognosis in patients with **colon cancer**. However, additional prognostic markers could be detected on **pathological slides** using **artificial intelligence tools**. Design We have developed a software to detect **colon tumour**, **healthy mucosa**, stroma and immune cells on CD3 and CD8 **stained slides**.

Cited by: 4 **Author:** Cynthia Reichling, Julien Taieb, Valentin ...
Publish Year: 2020

Artificial Intelligence Classifies Cancer Types, Predicts ...

https://www.genengnews.com/news/artificial...

Jul 29, 2020 · Leveraging the **Cancer** Genome Atlas, they applied this approach to hundreds of molecular alterations in **tissue slides** of more than 5,000 patients across 14 major tumor types.

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Jun 24, 2020 · The method recognizes **cancer tissue** without prior staining or other marking and, consequently, also works automatically with the aid of **artificial intelligence**. Unlike the conventional ...

PLCOI-634: Deep learning-based prediction of colorectal ...

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Jun 18, 2020 · Aim 1: Use **artificial intelligence** approaches to quantify **histopathological patterns** across **H&E-stained histopathology slide images** (from whole sections and **tumor microarrays**) of **colorectal tumors** and correlate these with matched molecular features from previously measured histopathological, **genomic**, and transcriptomic data.

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Artificial Intelligence in Colorectal Cancer Screening ...

https://www.gastroenterologyadvisor.com/colorectal...

Aug 21, 2020 · Recently, Alessandro Repici, MD, of the Digestive Endoscopy Unit at the Humanitas Research Hospital in Rozzano, Italy, and colleagues conducted the **Artificial Intelligence** for **Colorectal** Adenoma Detection Rate (AID) **study** (ClinicalTrials.gov Identifier: NCT04079487) to evaluate the safety and efficacy of a new CADe system in the detection of