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How Artificial Intelligence Is Advancing Precision Medicine

<https://www.forbes.com/sites/nicolemartin1/2019/10/...>

Oct 18, 2019 · With artificial intelligence, it takes precision medicine to the next level and increases the accuracy and prediction of outcome for patients.

Artificial Intelligence for Precision Medicine and Better ...

<https://www.kdnuggets.com/2020/09/artificial...>

Applications of Artificial intelligence in precision medicine An example is biomarker development in precision medicine for early-stage lung cancer. Biomarkers are characteristics of the body that we can measure. e.g. blood pressure or heart rate can be considered as a biomarker.

Artificial intelligence for precision education in ...

<https://www.birpublications.org/doi/10.1259/bjr.20190389>

Artificial intelligence (AI) is capable of learning without explicit instruction and has emerging applications in medicine, particularly radiology. Whereas much attention has focused on teaching radiology trainees about AI, here our goal is to instead focus on how AI might be developed to ...

Cited by: 13 Author: Michael Tran Duong, Andreas M. Rauschec...
Publish Year: 2019

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6389974>

Feb 25, 2019 · AI, including its best-known branch of research, machine learning, has significant potential to enable precision oncology well beyond relatively well-known pattern recognition applications, such as the supervised classification of single-source omics or imaging datasets. This perspective highlights key advances and challenges in that direction.

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Mar 02, 2018 · International registry for cancer patients evaluating the feasibility and clinical utility of an Artificial Intelligence-based precision oncology clinical trial matching tool, powered by a virtual tumor boards (VTB) program, and its clinical impact on pts with advanced cancer to facilitate clinical trial enrollment (CTE), as well as the financial impact, and potential outcomes of the intervention.

[PDF] Application of Artificial Intelligence Technology in ...

<https://www.mdpi.com/2072-6694/12/12/3532/pdf>

In the field of oncology, clinical applications of medical devices using AI. technology are already

Name of Journal: *World Journal of Translational Medicine*

Manuscript NO: 60193

Manuscript Type: EDITORIAL

Machine intelligence for precision oncology

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Abstract

Despite various advances in cancer research, the incidence and mortality rates of malignant diseases have remained high. Accurate risk assessment, prevention, detection, and treatment of cancer tailored to the individual are major challenges in clinical oncology. Artificial intelligence (AI), a field of applied computer science, has shown promising potential of accelerating evolution of healthcare towards precision oncology. This article focuses on highlights of the application of data-driven machine learning (ML) and deep learning (DL) in translational research for cancer diagnosis, prognosis, treatment, and clinical outcomes. ML-based algorithms in radiological

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Artificial Intelligence based precision oncology Clinical ...

<https://massivebio.com/synergy-ai-based-precision...> ▾

The SYNERGY-AI registry is the first of its kind to combine artificial intelligence, genomic biomarkers and multi-variate analysis to accelerate clinical trial matching and promote access to promising cancer therapies. SYNERGY-AI is a part of Massive Bio's global strategic collaboration with community-based oncology practices. Established in 2014, the goal of the collaboration is to promote precision oncology

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Artificial Intelligence and Precision Medicine Help the ...

<https://healthcareweekly.com/artificial...> ▾

May 24, 2018 · Precision medicine powered by artificial intelligence will disrupt the way scientists research, diagnose, treat and prevent cancer. Despite AI's potential to revolutionize the field, challenges do remain. For example, the vast amounts of patient health data ...

Artificial intelligence (AI) and big data in cancer and ...

<https://www.sciencedirect.com/science/article/pii/S200103702030372X>

Jan 01, 2020 · Artificial intelligence (AI) and machine learning (ML) have important applications in healthcare and precision oncology. ML is a subset of AI that uses neural networks to solve healthcare problems and predict treatment outcomes by pattern recognition in patient datasets.

Cited by: 2

Author: Zodwa Dlamini, Flavia Zita Francies, Rod...

Publish Year: 2020

Artificial Intelligence in Oncology: Fantasy or Reality?

<https://www.labiotech.eu/in-depth/artificial-intelligence-oncology> ▾

Jun 17, 2019 · In Switzerland, Sophia Genetics is using artificial intelligence to pinpoint gene mutations behind cancer to assist doctors in the prescription of the best treatment. Their solution costs on average \$50-\$200 per genetic evaluation and according to the company it is currently used by more than 970