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www.kather.ai

Dr. KI statt Dr. med.?

Die Zukunft der Hämatologie/Onkologie im Zeitalter der künstlichen Intelligenz

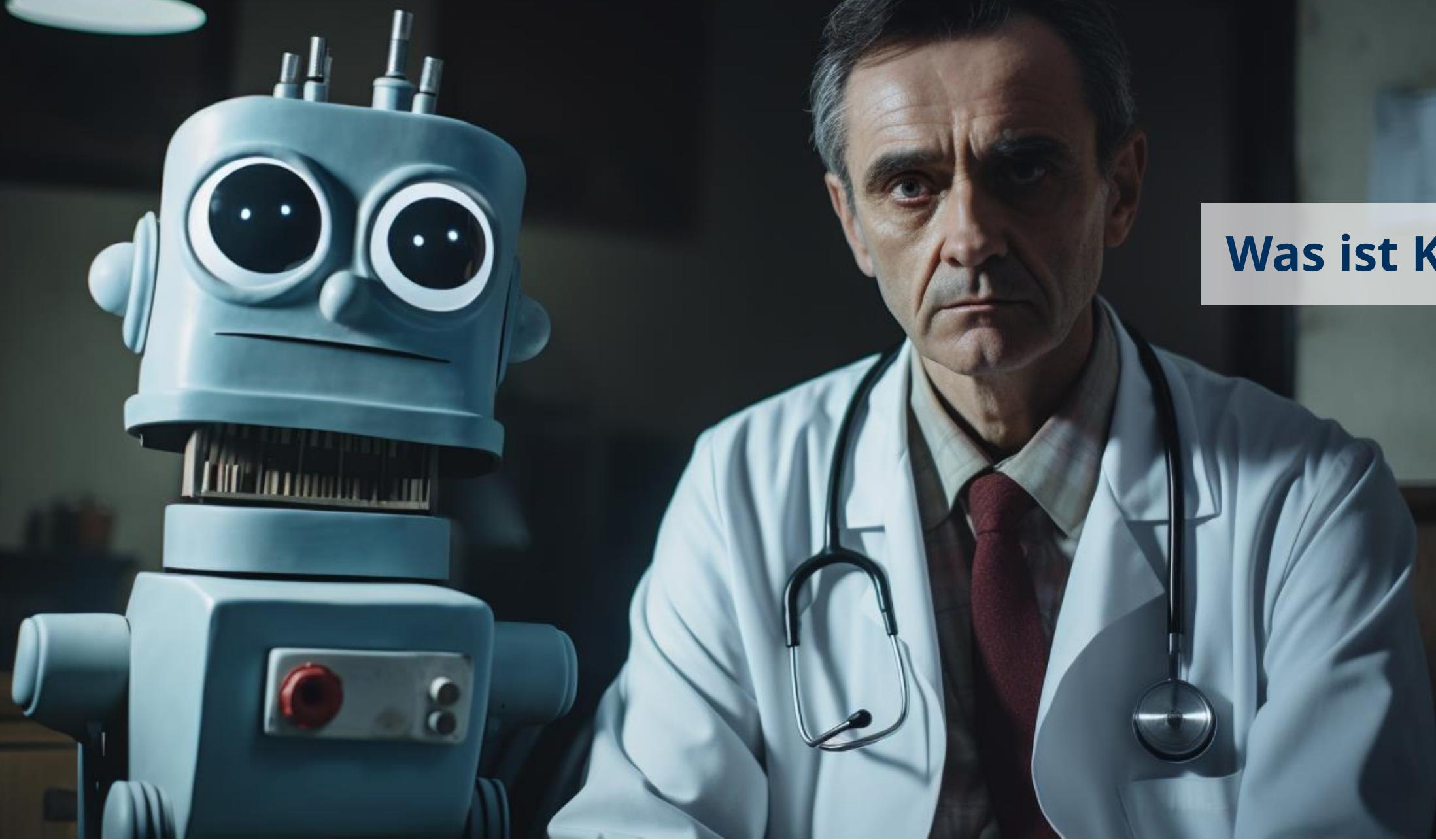
Disclosures 2023

Employee: **University Hospital Dresden, University Hospital Heidelberg**

Scientific advisory board member, consulting: **Owkin** (Paris / New York), **Panakeia** (London),
DoMore Diagnostics (Oslo), **Histofy** (Warwick)

Shareholder: **StratifAI GmbH** (Germany)

Honoraria for lectures: **MSD, Eisai, Fresenius, Roche, Bayer, BMS, Pfizer**



Was ist KI?

Startseite → Arbeitskreise → H - K → Künstliche Intelligenz

Künstliche Intelligenz

Der Arbeitskreis Künstliche Intelligenz (KI) der DGHO wurde im Oktober 2022 auf der Jahrestagung in Wien gegründet. Gemeinsam setzen sich die Mitglieder zum Ziel, die Integration von Daten, Methoden und Ergebnissen der KI-Forschung in die Klinik, Forschung und Lehre der Hämatologie und Onkologie zu begleiten und zu fördern.

Die Mitglieder des Arbeitskreises beschäftigen sich sowohl mit klinischen als auch mit grundlagenwissenschaftlichen Fragestellungen. Die Forschungsschwerpunkte umfassen unter anderem maschinelles Lernen, künstliche Intelligenz, Bildgebung und Genomik, sowie Biomarker in präklinischer und klinischer Forschung.

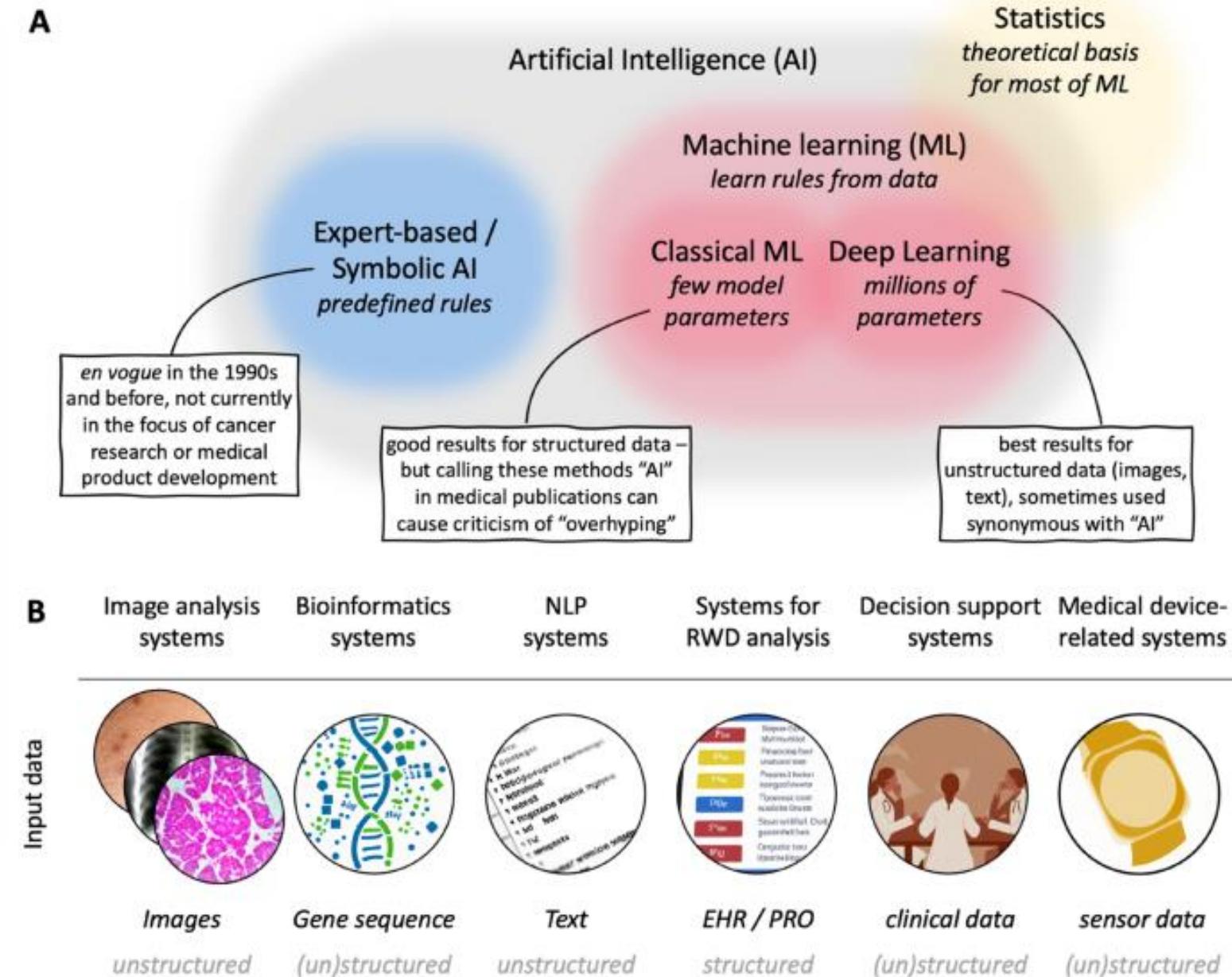
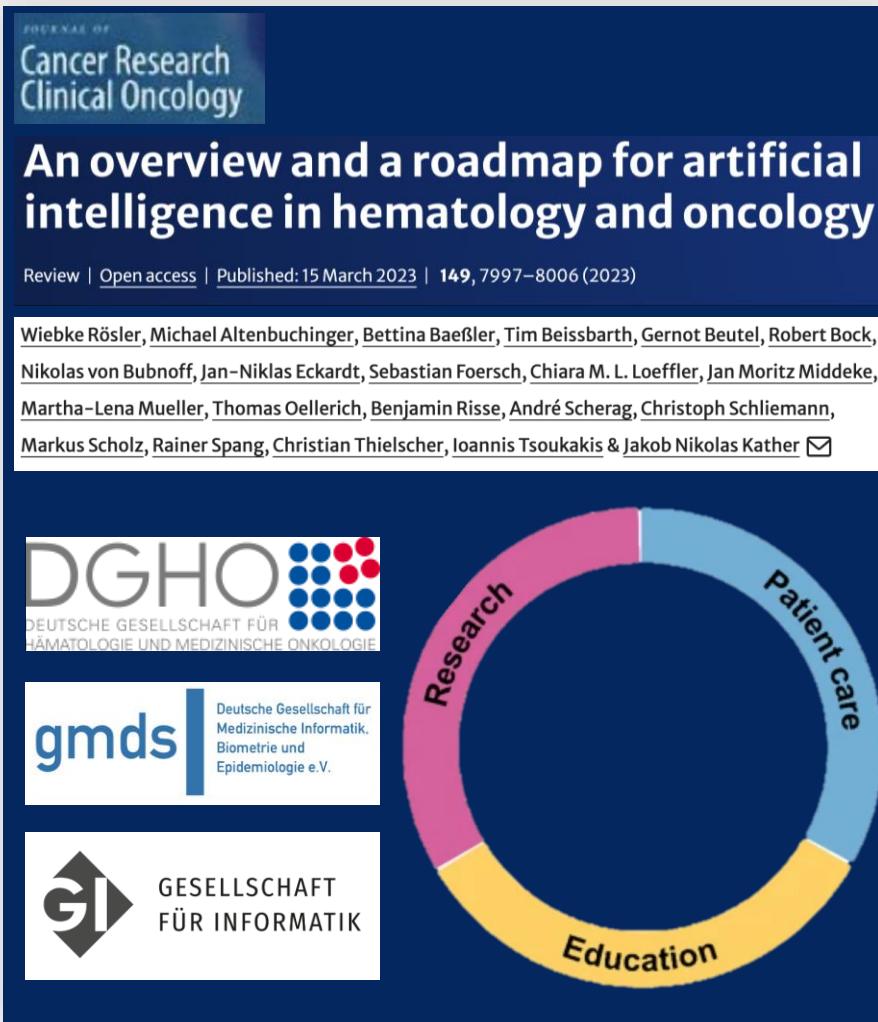
Der Arbeitskreis bietet eine Plattform für den Wissenstransfer und die Zusammenarbeit zwischen KI-Forschenden und Ärztinnen und Ärzten. Darüber hinaus soll er als Ansprechpartner für Politik, Industrie und Gesellschaft fungieren und die Interessen der deutschen Hämatologie/Onkologie-Gemeinschaft in nationalen und internationalen Gremien vertreten.

[Zum Aufnahmeantrag](#)



Definitionen von KI

Rösler W, et al. J Cancer Res Clin Oncol. 2023 Mar 15.



A professional photograph of a female doctor with long dark hair tied back, wearing a white lab coat over a teal top. She is seated at a desk, looking intently at a laptop screen. Her right hand holds a silver pen, poised above the keyboard. The background is softly blurred, showing warm lights from a window and some medical equipment. A white rectangular box is positioned in the upper right corner of the image, containing the title text.

KI-Anwendungen in der Krebsmedizin

KI in der Onkologie: 2012 – 2017 – 2021

<https://www.bbc.com/news/technology-20159531>
<https://abcnews.go.com/Technology/ibms-watson-supercomputer-job-memorial-sloan-kettering-cancer/story?id=15979580>
<https://www.forbes.com/sites/bruceupbin/2013/02/08/ibms-watson-gets-its-first-piece-of-business-in-healthcare/>
<https://www.nytimes.com/2021/07/16/technology/what-happened-ibm-watson.html>



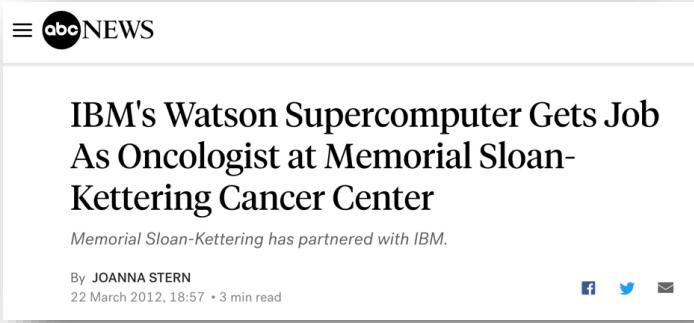
BBC NEWS

Home | Coronavirus | Climate | Video | World | UK | Business | Tech | Science | Stories | Tech

IBM's Watson supercomputer goes to medical school

31 October 2012

By Charlie Schmidt



ABC NEWS

IBM's Watson Supercomputer Gets Job As Oncologist at Memorial Sloan-Kettering Cancer Center

Memorial Sloan-Kettering has partnered with IBM.

BY JOANNA STERN
22 March 2012, 18:57 • 3 min read

f t e



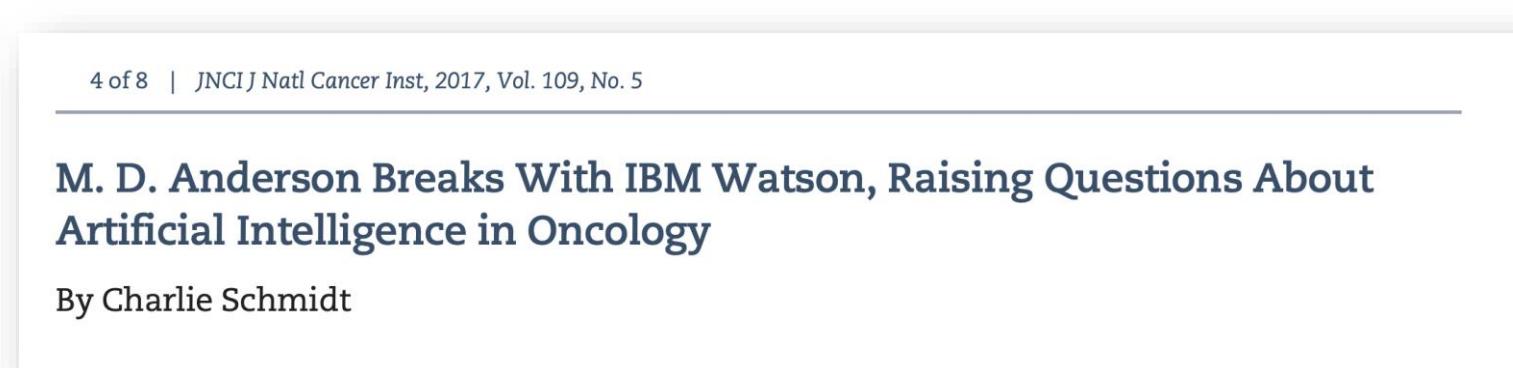
Forbes

Feb 8, 2013, 02:22pm EST

IBM's Watson Gets Its First Piece Of Business In Healthcare

Bruce Upbin Former Contributor @
Tech
I manage our technology coverage.

This article is more than 8 years old.



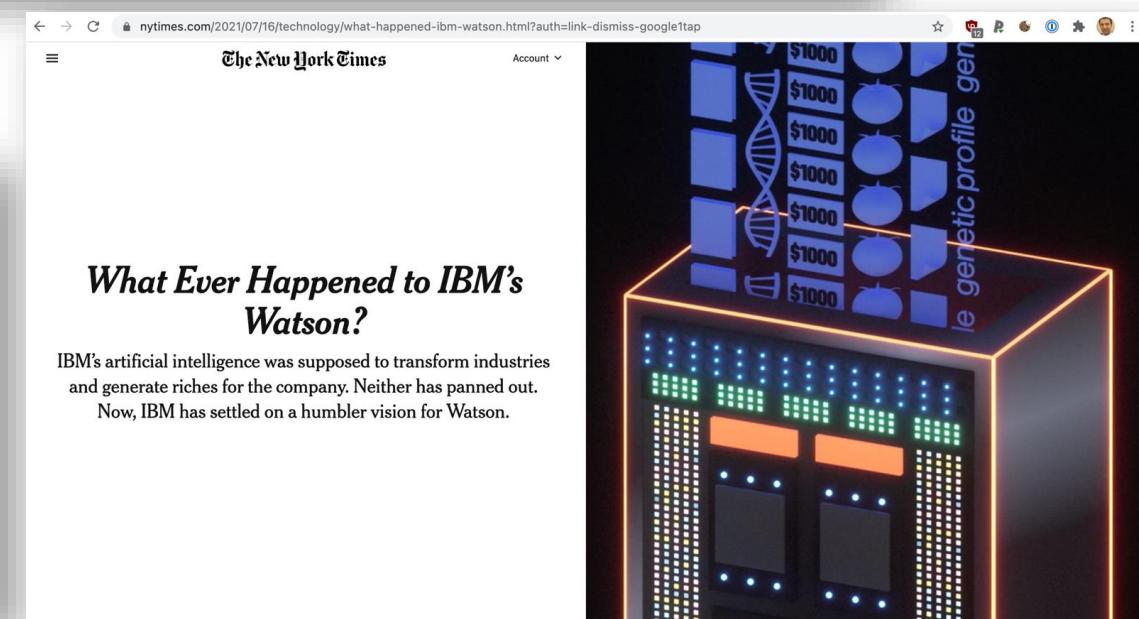
4 of 8 | JNCI J Natl Cancer Inst, 2017, Vol. 109, No. 5

M. D. Anderson Breaks With IBM Watson, Raising Questions About Artificial Intelligence in Oncology

By Charlie Schmidt

In 2012, the University of Texas M. D. Anderson Cancer Center in Houston partnered with IBM to develop the artificial intelligence program, called IBM Watson, as a clinical decision tool in oncology. Five years and \$62 million later, M. D. Anderson let its contract with IBM expire before anyone used Watson on actual patients.

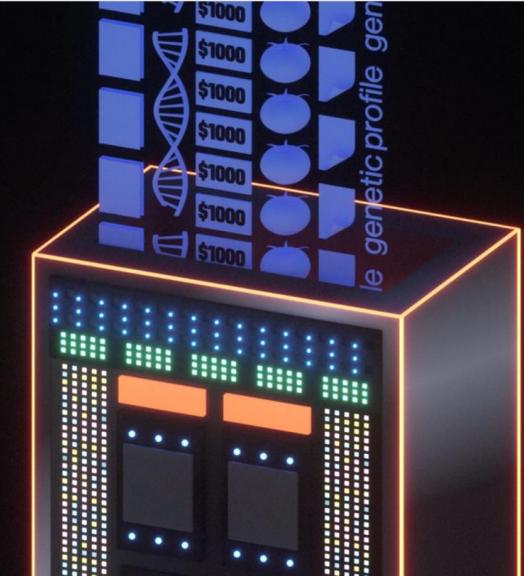
Last February, a university audit of the project exposed many procurement problems, cost overruns, and delays.



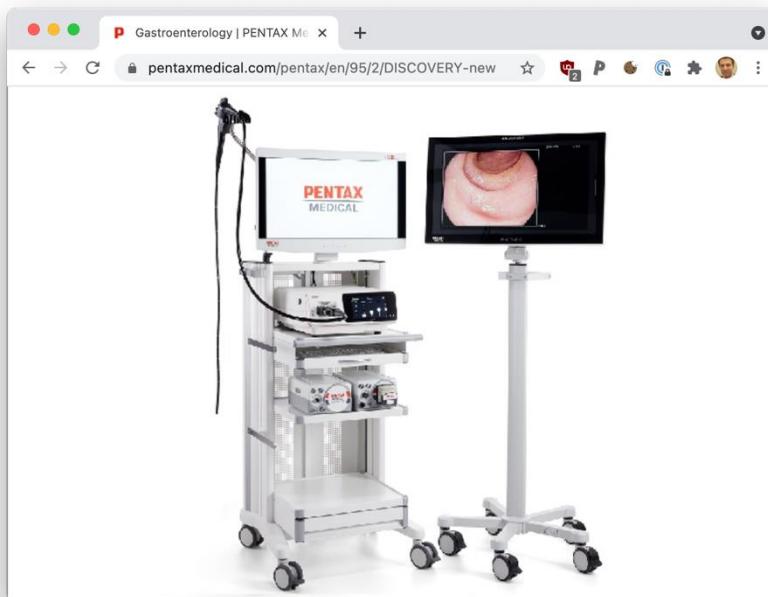
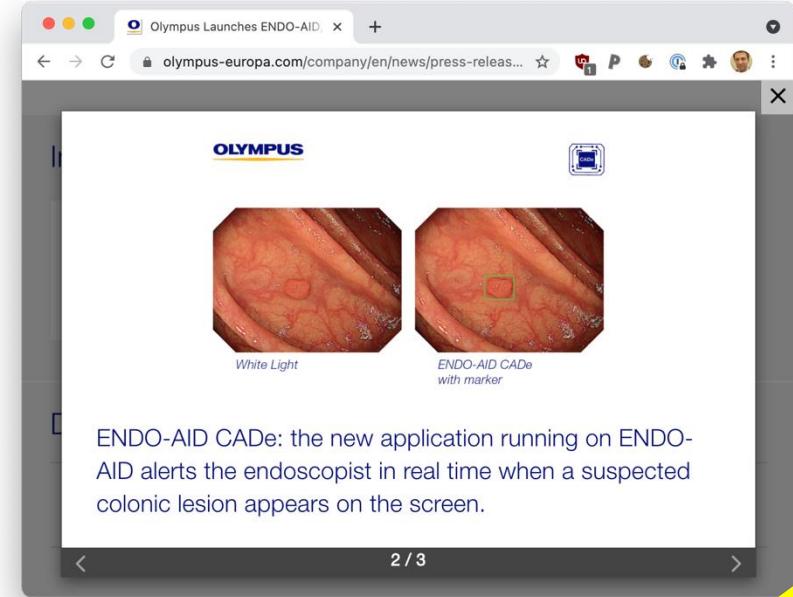
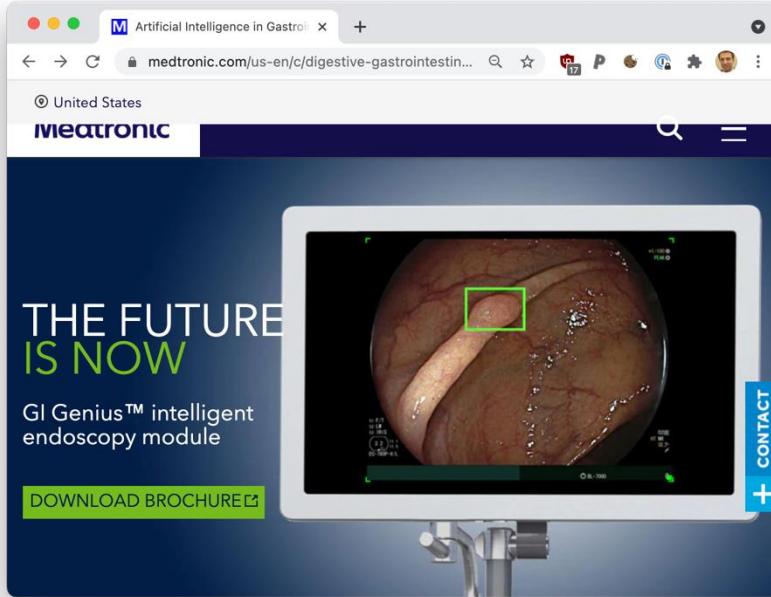
The New York Times

What Ever Happened to IBM's Watson?

IBM's artificial intelligence was supposed to transform industries and generate riches for the company. Neither has panned out. Now, IBM has settled on a humbler vision for Watson.



KI im Darmkrebscreening



KI in der Radiologie

IB Lab KOALA CE
Knee Osteoarthritis Labeling Assistant

Get a Demo Now

Veye Lung Nodules, your AI solution for pulmonary nodule management

The second pair of eyes in the search for lung nodules on chest CT scans

Veye Lung Nodules supports the improvement of patient outcomes by delivering fast results, lowering the risk of misdiagnosis, and by detecting and segmenting possible early-stage lung cancer.

Why use Veye Lung Nodules Clinical features

VUNO Med®-Chest X-ray™

VUNO Med-Chest X-ray

The figure above illustrates the RTSTRUCT format. Segments output by the software. The segments are overlaid, on a 3D multi-planar reconstruction (2 axial image, together with the 3D model). Colours shown are:

- Red: index lesion
- Blue: prostate
- Grey: seminal vesicle

incomplete selection
no COIs

Bone age estimation [1]
Chronological Age (CA)/Patient Sex
8 Years 0 Months
8 96 Months / M

Bone Age
8 Years 0 Months
8 96 Months / M

Natural standard Deviation (SD) [2]
9.1 Months

Status (based on 2SD) [2]
ADVANCED

Chronological Age (CA) / SD
CA = 150 CA + 1SD CA - 1SD
CA = 250 CA + 1SD CA - 1SD

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mediaire | DIGITAL INNOVATION IN RADIOLOGY

mdbrain

mdbrain ist eine präzise, schnelle und damit auch effiziente Software-Lösung für neuroradiologische Fragestellungen von Demenz bis Multiple Sklerose. Die Produktfamilie bietet u.a. Werkzeuge für Gehirnvolumetrie, Läsionscharakterisierung, Aneurysmadektion und...

Klinische Evidenz für KI

NIH U.S. National Library of Medicine

ClinicalTrials.gov

Find Studies ▾ About Studies ▾ Submit Studies ▾ Resources ▾ About Site ▾

[PRS Login](#)

Home > Search Results > Study Record Detail

Save this study

Mammography Screening With Artificial Intelligence (MASAI) (MASAI)

Study Design

Go to [▼](#)

Study Type [i](#): Interventional (Clinical Trial)

Actual Enrollment [i](#): 100000 participants

Allocation: Randomized

Intervention Model: Parallel Assignment

Masking: Single (Participant)

Masking Description: Participants have the possibility to opt-out. If they do not opt-out, neither the participant nor the nurse performing the screen exam will know to what study arm the participant was allocated. The radiologist reading the screen exam will however not be blinded to allocation information.

Primary Purpose: Screening

Official Title: A Randomized, Single-blinded, Controlled Trial on the Efficacy of Mammography Screening With Artificial Intelligence - the MASAI Study

Actual Study Start Date [i](#): April 12, 2021

Estimated Primary Completion Date [i](#): November 12, 2024

Estimated Study Completion Date [i](#): April 12, 2025

THE LANCET
Oncology

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ARTICLES | VOLUME 24, ISSUE 8, P936-944, AUGUST 2023

[!\[\]\(f29f0046b33c1b22be08116509a1ae48_img.jpg\) Download Full Issue](#)

Artificial intelligence-supported screen reading versus standard double reading in the Mammography Screening with Artificial Intelligence trial (MASAI): a clinical safety analysis of a randomised, controlled, non-inferiority, single-blinded, screening accuracy study

Kristina Lång, PhD  • Viktoria Josefsson, MD • Anna-Maria Larsson, PhD • Stefan Larsson, PhD • Charlotte Höglberg, MA •

Hanna Sartor, PhD • Prof Solveig Hofvind, PhD • Ingvar Andersson, PhD • Aldana Rosso, PhD • Show less

Published: August, 2023 • DOI: [https://doi.org/10.1016/S1470-2045\(23\)00298-X](https://doi.org/10.1016/S1470-2045(23)00298-X) •  Check for updates

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transpara®
Powered by FusionAI™

The advance in deep learning
radiologists have been waiting for



Lang et al., Lancet Oncology 2023; NCT04838756
Transpara AI <https://screenpoint-medical.com/fusion-ai/>

Slide 10

Universitätsklinikum
Carl Gustav Carus
THE DRESDENERS.


EKFZ
Digital Health

KATHER
LAB

KI in der Pathologie

Introducing Paige Prostate, the first AI-based pathology product to receive FDA marketing authorization for in vitro diagnostic (IVD) use in detecting cancer in prostate needle biopsies.

Software to Enhance Confidence in Prostate Cancer Diagnosis

First CE-IVD marked AI solution for prognostic risk stratification of breast cancer patients.

Stratipath, a global leader in AI-based precision diagnostic solutions, today announced that its AI software for prognostic risk stratification of breast cancers, Stratipath Breast, is now CE-IVD marked.

BreastIHC CE-IVD certified

PANProfiler Breast (ER, PR, HER2)

UK CA CE

Breast cancer diagnostic tool that reports tissue ER, PR, HER2 analysing H&E slides. Seamlessly integrates with existing and reduces the need for time consuming lab tests, return results sooner to patients and multidisciplinary teams.

The device is available only in Great Britain (UKCA) and the EU (CE) as an is not yet available in the United States. Request documentation

Aiforia adds fourth CE-IVD marked clinical AI Model to its rapidly expanding portfolio of novel tools for cancer diagnostics

Aiforia announces the CE-IVD marking of the Aiforia® Clinical AI Model for Breast Cancer; PR. The news comes just recently after the company released another CE-IVD marked clinical algorithm, the ER AI model, for the same disease.

May 25, 2022 Written by Aiforia

UNIVERSITY DRESDEN

DoMore Diagnostics achieves CE-IVD mark for Histotype Px® Colorectal, an AI algorithm that predict patient outcomes in colorectal cancer patients by analyzing standard histology images

Oslo, Norway - DoMore Diagnostics, a leader in cancer outcome prediction with

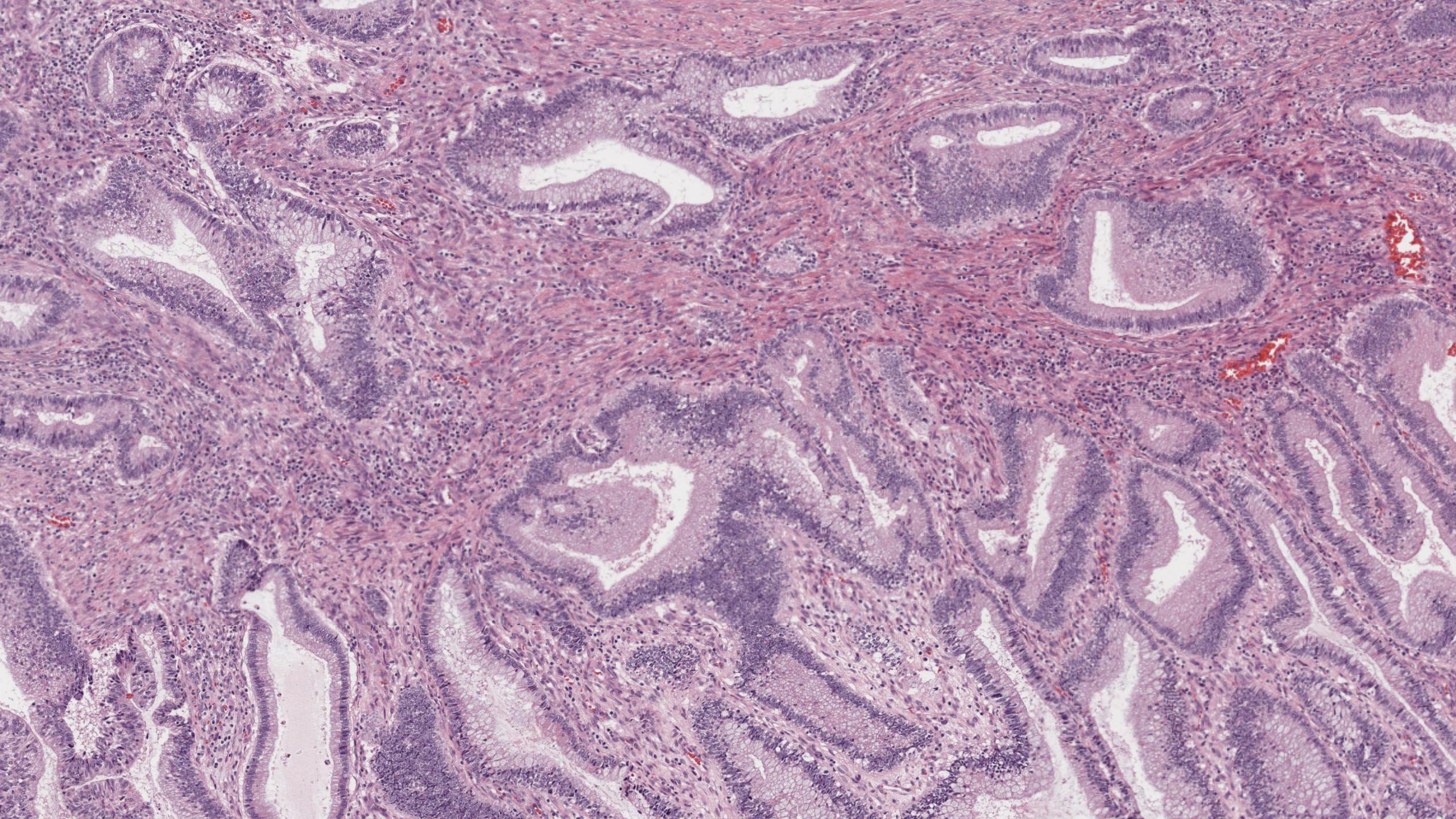
Indica Labs receives CE-IVD Mark for prostate cancer screening tool

The study was conducted on 4,973 core needle biopsies obtained from three independent arms.

incomplete selection
COI: scientific advisor for
Owkin and Panakeia

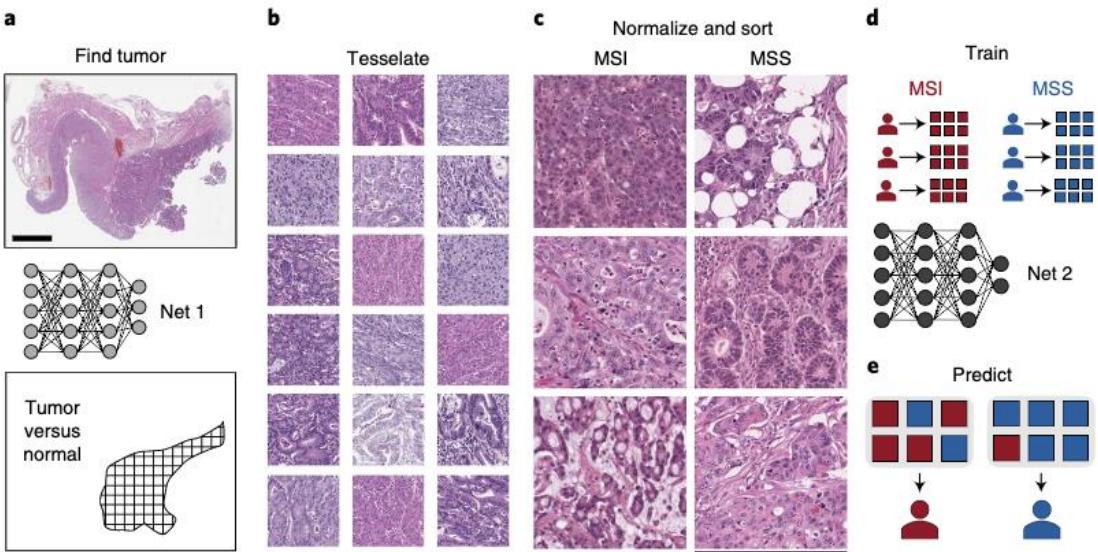


Übersicht KI-basierte Biomarker in der Präzisionsonkologie



Deep learning can predict microsatellite instability directly from histology in gastrointestinal cancer

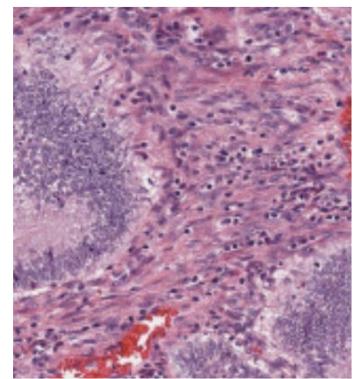
Jakob Nikolas Kather^{1,2,3,4,5*}, Alexander T. Pearson⁴, Niels Halama^{1,2,5,6}, Dirk Jäger^{2,3,5}, Jeremias Krause¹, Sven H. Loosen¹, Alexander Marx⁷, Peter Boor^{1,8}, Frank Tacke⁹, Ulf Peter Neumann¹⁰, Heike I. Grabsch^{11,12}, Takaki Yoshikawa^{13,14}, Hermann Brenner^{2,15,16}, Jenny Chang-Claude^{17,18}, Michael Hoffmeister¹⁵, Christian Trautwein¹ and Tom Luedde^{1*}



Genotype determines
the phenotype



Deep Learning
predicts genotype



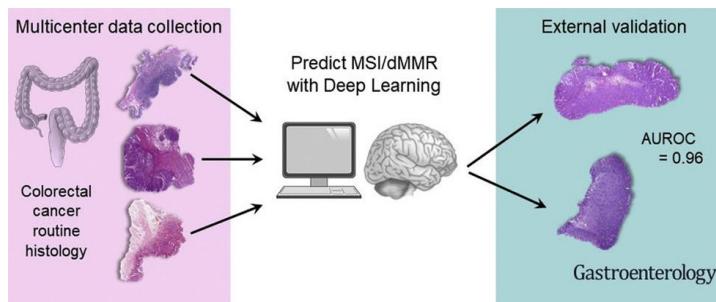
now available as a
product for clinical
use in the EU

Large-scale validation & pan-cancer extension



Clinical-Grade Detection of Microsatellite Instability in Colorectal Tumors by Deep Learning

Amelie Echle,¹ Heike Irmgard Grabsch,^{2,3} Philip Quirke,³ Piet A. van den Brandt,⁴ Nicholas P. West,³ Gordon G. A. Hutchins,³ Lara R. Heij,^{5,6,7} Xiuixiang Tan,^{5,6,7} Susan D. Richman,³ Jeremias Krause,¹ Elizabeth Alwers,⁸ Josien Jennikseens,⁴ Kelly Offermans,⁴ Richard Gray,⁹ Hermann Brenner,^{8,10,11} Jenny Chang-Claude,^{12,13} Christian Trautwein,¹ Alexander T. Pearson,¹⁴ Peter Boor,⁷ Tom Luedde,^{1,15} Nadine Therese Gaisa,⁷ Michael Hoffmeister,⁹ and Jakob Nikolas Kather^{1,3,11,16}

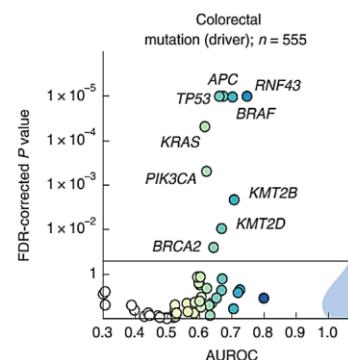


Echle et al.,
Gastroenterology, 2020

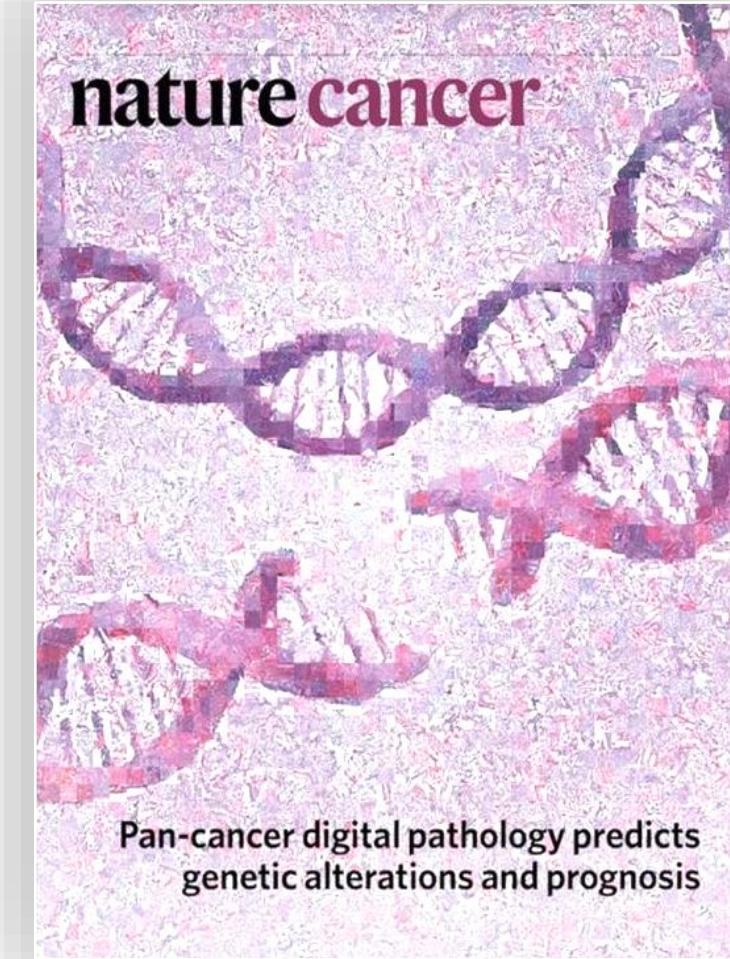


Pan-cancer image-based detection of clinically actionable genetic alterations

Jakob Nikolas Kather^{1,2,3}, Lara R. Heij^{4,5,6}, Heike I. Grabsch^{7,8}, Chiara Loeffler¹, Amelie Echle¹, Hannah Sophie Mutti¹, Jeremias Krause¹, Jan M. Niehues¹, Kai A. J. Sommer¹, Peter Bankhead⁹, Loes F. S. Kooremann⁷, Jefree J. Schulte¹⁰, Nicole A. Cipriani¹⁰, Roman D. Buelow¹¹, Peter Boor⁶, Nadina Ortiz-Brückle⁶, Andrew M. Hanby⁸, Valerie Speirs¹¹, Sara Kochanny¹², Akash Patnaik¹², Andrew Srisuwananukorn¹³, Hermann Brenner^{2,14,15}, Michael Hoffmeister¹⁴, Piet A. van den Brandt¹⁶, Dirk Jäger^{2,3}, Christian Trautwein¹, Alexander T. Pearson^{12,19} and Tom Luedde^{17,18,19}



Kather et al.,
Nature Cancer 2020



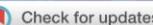
Prädiktion von Immuntherapie-Response

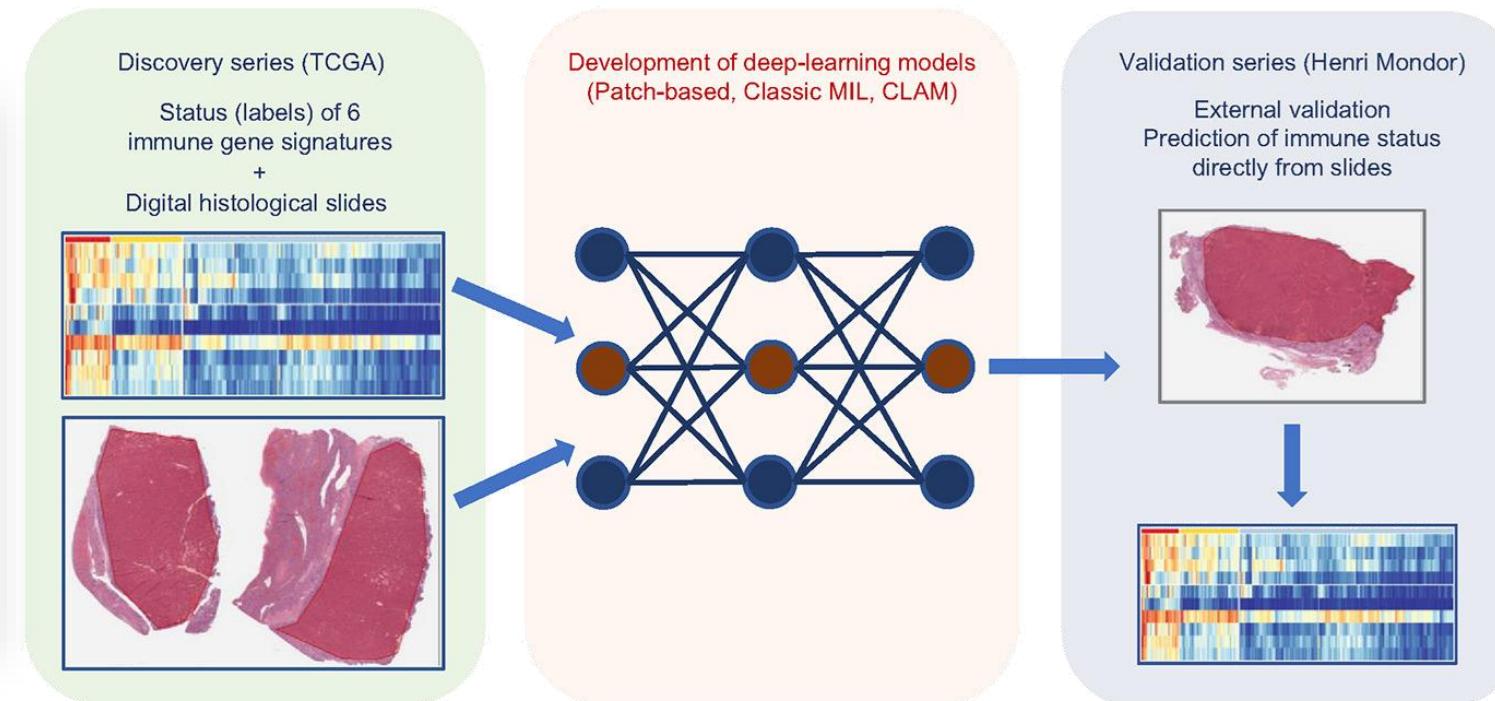
Zeng et al.
Journal of Hepatology 2022

JOURNAL OF HEPATOLOGY  **EASL**
The Home of Liver Research

Artificial intelligence predicts immune and inflammatory gene signatures directly from hepatocellular carcinoma histology

Qinghe Zeng [†] • Christophe Klein [†] • Stefano Caruso • Pascale Maille • Narmin Ghaffari Laleh •
Daniele Sommacale • Alexis Laurent • Giuliana Amaddeo • David Gentien • Audrey Rapinat •
Hélène Regnault • Cécile Charpy • Cong Trung Nguyen • Christophe Tournigand • Raffaele Brustia •
Jean Michel Pawlotsky • Jakob Nikolas Kather • Maria Chiara Maiuri • Nicolas Loménié [#] •
Julien Calderaro    • Show less • Show footnotes

Published: February 07, 2022 • DOI: <https://doi.org/10.1016/j.jhep.2022.01.018> • 

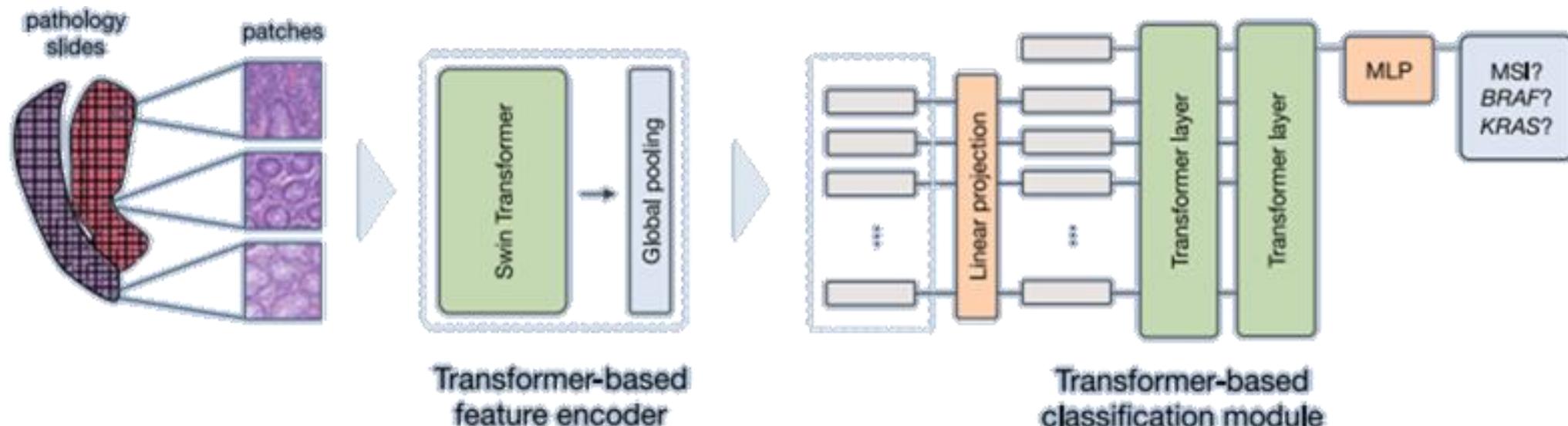


Cancer Cell

Transformer-based biomarker prediction from colorectal cancer histology: A large-scale multicentric study

Authors

Sophia J. Wagner,
Daniel Reisenbüchler,
Nicholas P. West, ..., Melanie Boxberg,
Tingying Peng, Jakob Nikolas Kather



Hämatologische Diagnostik

Eckardt et al. BMC Cancer (2022) 22:201
https://doi.org/10.1186/s12885-022-09307-8

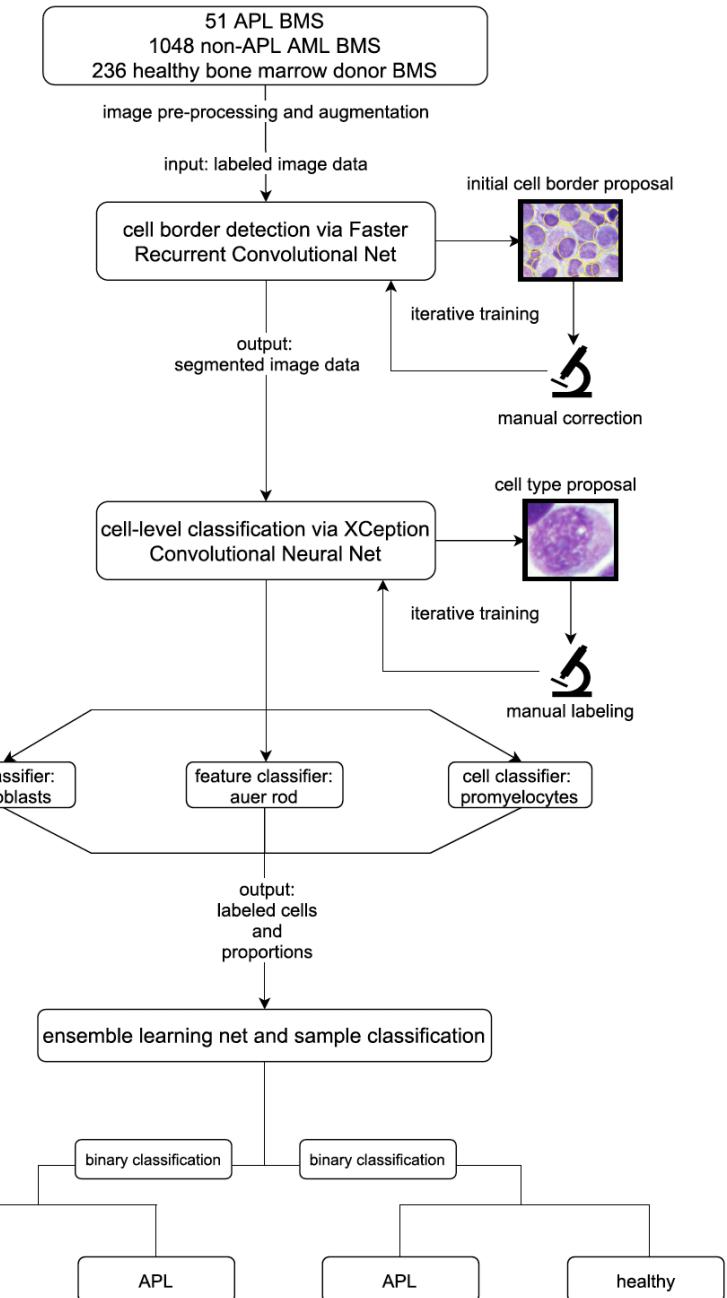
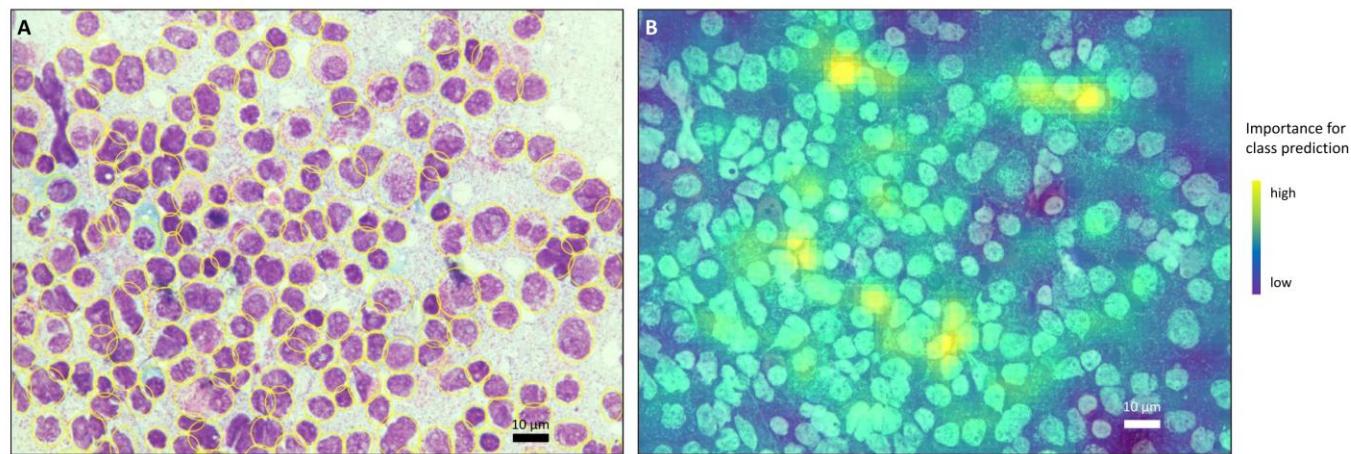
BMC Cancer

RESEARCH

Open Access

Deep learning identifies Acute Promyelocytic Leukemia in bone marrow smears

Jan-Niklas Eckardt^{1*}, Tim Schmittmann², Sebastian Riechert², Michael Kramer¹, Anas Shekh Sulaiman¹, Katja Sockel¹, Frank Kroschinsky¹, Johannes Schetelig¹, Lisa Wagenführ¹, Ulrich Schuler¹, Uwe Platzbecker³, Christian Thiede¹, Friedrich Stölzel¹, Christoph Röllig¹, Martin Bornhäuser^{1,4,5}, Karsten Wendt^{2†} and Jan Moritz Middeke^{1†}

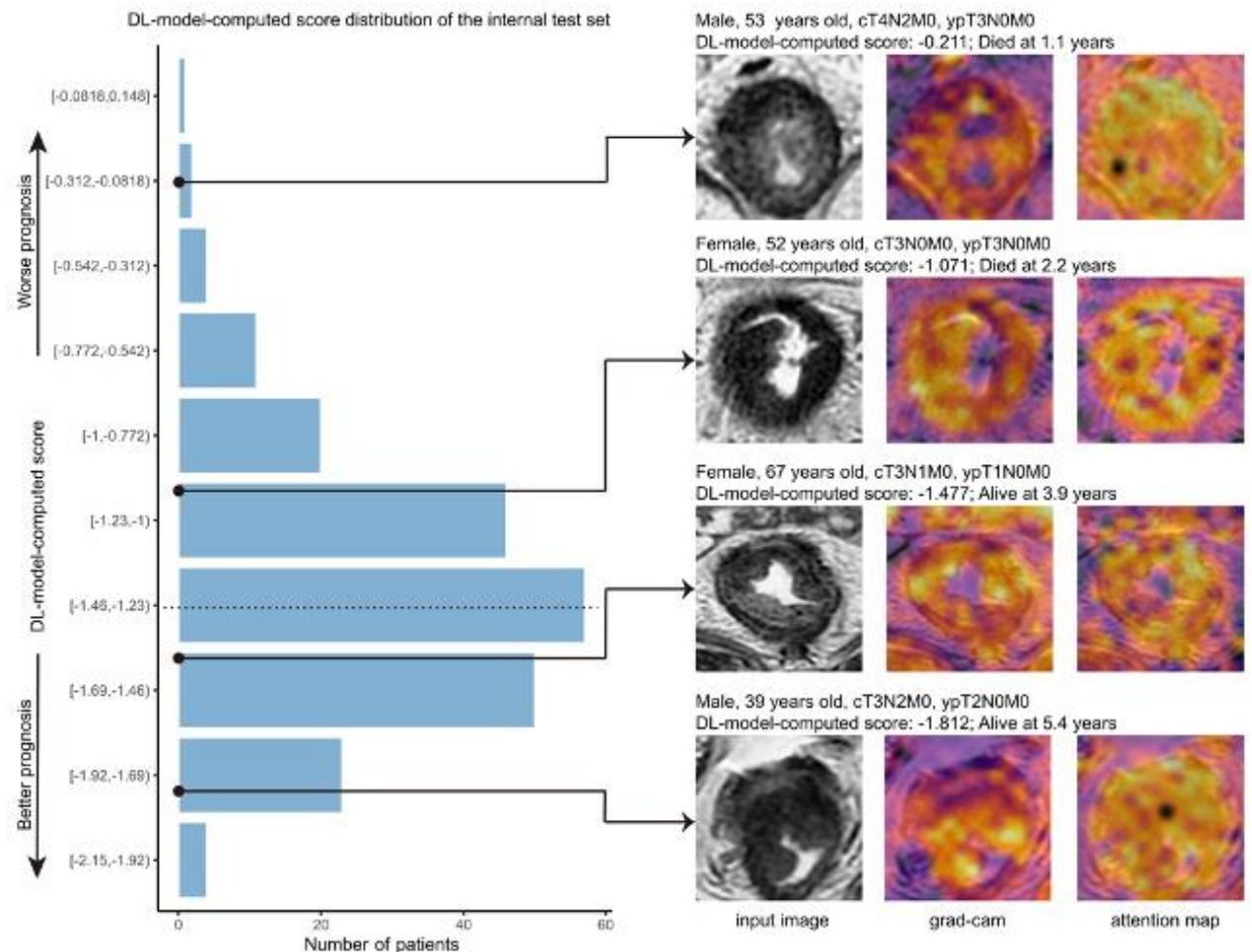


KI-basierte Ende-zu-Ende Analyse in der Radiologie



An MRI Deep Learning Model Predicts Outcome in Rectal Cancer

Xiaofeng Jiang*, Hengyu Zhao*, Oliver Lester Saldanha, Sven Nebelung,
 Christiane Kuhl, Iakovos Amygdalos, Sven Arke Lang, Xiaojian Wu,
 Xiaochun Meng, Daniel Truhn, Jakob Nikolas Kather** Jia Ke**



Large language models



I am a medical doctor. I have a patient with HCC and liver cirrhosis (BCLC C) and I am unsure if I should prescribe Atezo/Bev or a TKI as first line systemic therapy. Is there a clinical trial that compared these options? What are the most important considerations whether to choose one or the other? Be concise.

Yes, the IMbrave150 trial is a clinical trial that compared Atezolizumab (Atezo) plus Bevacizumab (Bev) with Sorafenib, a tyrosine kinase inhibitor (TKI), as a first-line treatment for patients with unresectable hepatocellular carcinoma (HCC) and liver cirrhosis (BCLC C).

Key considerations in choosing between Atezo/Bev and a TKI are:

1. Efficacy: IMbrave150 trial demonstrated that Atezo/Bev significantly improved overall survival (OS) and progression-free survival (PFS) compared to Sorafenib, leading to its approval as a first-line treatment.

2. Safety: Atezo/Bev showed a more favorable safety profile, with fewer grade 3 or higher adverse events compared to Sorafenib.
3. Patient factors: Consider individual patient factors, such as comorbidities, performance status, and contraindications for immunotherapy or antiangiogenic agents.
4. Drug availability and cost: Availability and cost of Atezo/Bev may vary across regions and might affect the choice of therapy.

Overall, Atezo/Bev is generally preferred as first-line systemic therapy for patients with advanced HCC (BCLC C) based on the IMbrave150 trial results, but individual patient factors and drug availability should also be considered.

Unstrukturierte Daten strukturieren

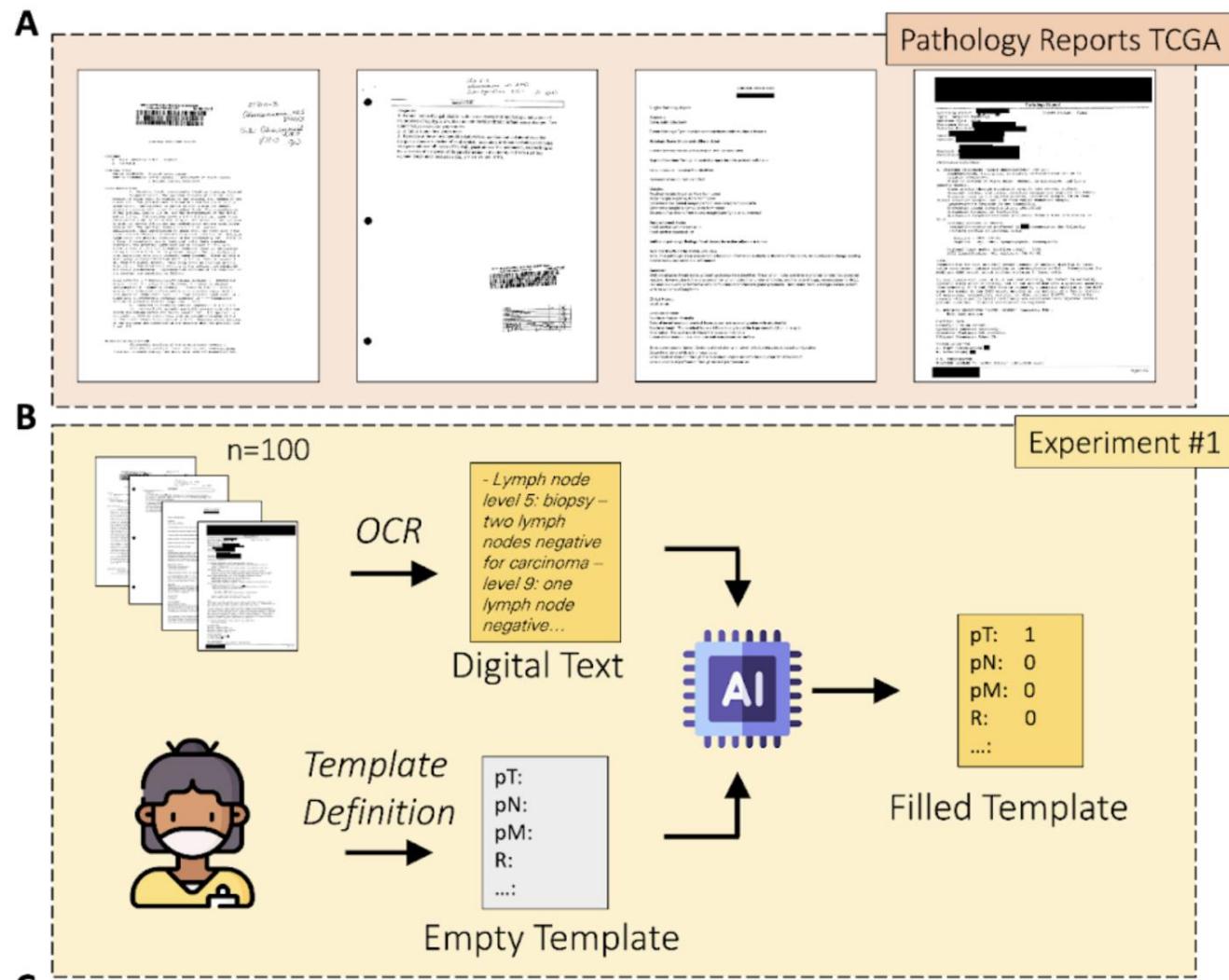
Gross Anatomic Description

Specimens received in five containers.

Specimen A: Designated "right colon distal ileum" is received in formalin labeled with the patient's name and "right colon distal ileum". Specimen consists of a portion of ileum with attached right colon which measures a total of 35.3 cm in length. The small intestine measures 17.2 cm in length x 3.5 cm in cross sectional diameter. The colon measures 18.1 cm in length and the cross sectional diameter ranges from 5.6 cm distally to 10.2 cm surrounding an enlarged area with focal puckering of the serosal surface. Attached to the colon is a portion of muscle and connective tissue located posteriorly which measures 12.5 x 6.3 x 5.1 cm. The remainder of the serosal surface of both the ileum and right colon are smooth, tan/pink and unremarkable. Attached pericolic fibroadipose tissue is present. This area of puckering measures 9.5 cm from the colonic resection margin. The area composed of the muscle and connective tissue is inked green. The ileal wall measures 0.2 cm in thickness and the mucosal surface of the ileum with grossly unremarkable. Grossly adjacent to the ileal cecal valve is a large variegated polypoid exophytic pink to green colored bosselated mass measuring 9.5 x 8.0 cm and extends to a depth of 8.5 cm. Focally the mass extends to the inked green muscle connective tissue resection margin. The remainder of the colonic mucosa is grossly unremarkable and free of additional polyps or diverticuli. The average wall thickness of the colon measures 0.2 cm to 0.3 cm. Gross photographs are taken. Multiple lymph nodes are identified ranging from 0.2 cm up to 3.1 cm in greatest dimension. The appendix is identified upon cross sectioning of the muscle and soft tissue. The appendix is totally encased within the soft tissue making a measurement of length not possible. The cross-sectional diameter averages 0.6 cm with an intact lumen that is 0.2 cm. The tumor does appear grossly to involve the appendix.

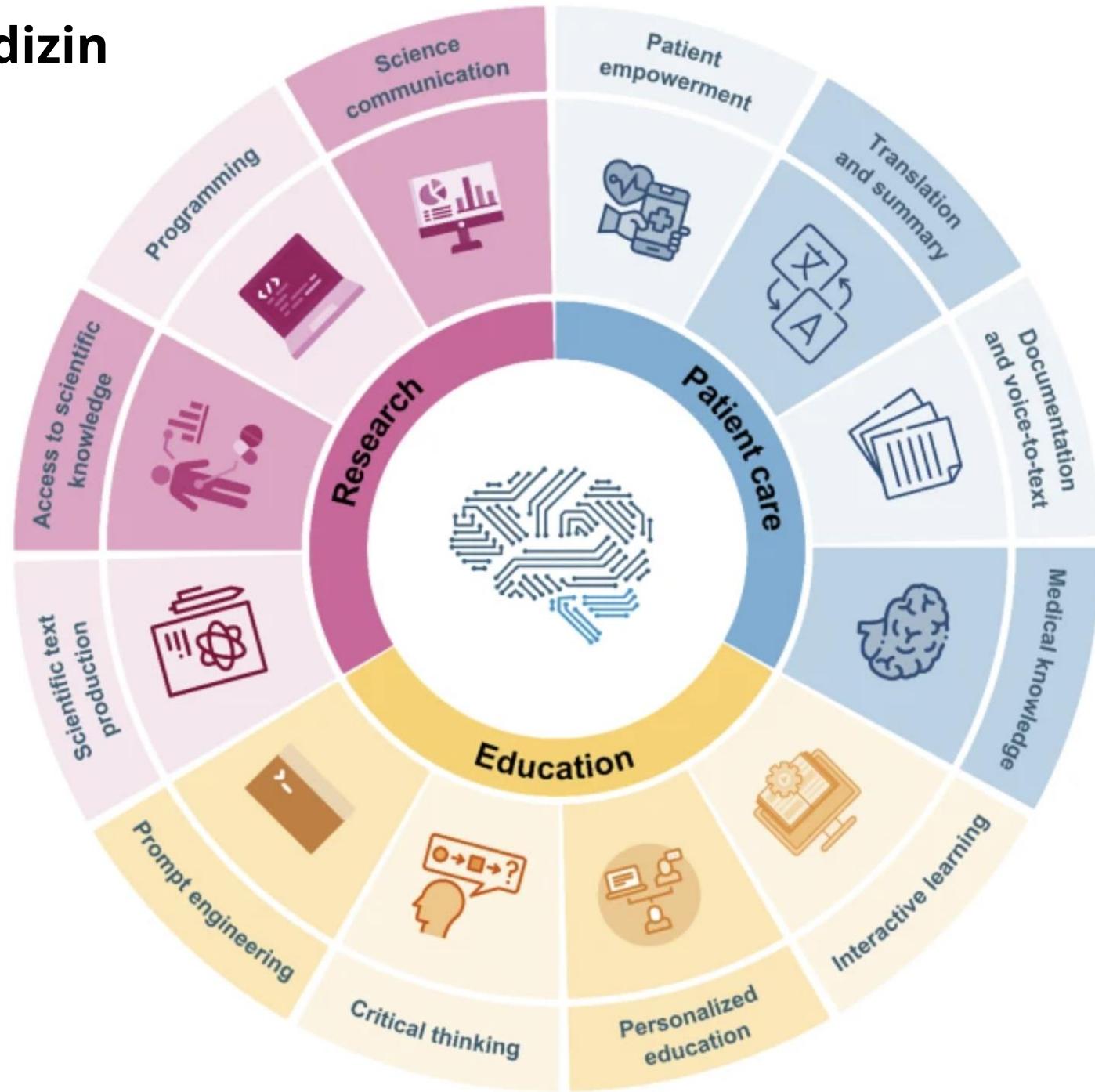
Gross photographs are taken.

Section code: A1 – colon resection margin; A2 – ileal resection margin; A3 – additional representative section of unremarkable colon and ileum; A4-A7 – representative sections tumor; A8-A10 – sections of tumor with deepest muscle and soft issue invasion extending to the inked margin; A11 – three



LLMs in der Medizin

Clusmann*, Kolbinger*,
Muti*, et al., Comms
Med 2023



GPT-4 advanced data analysis

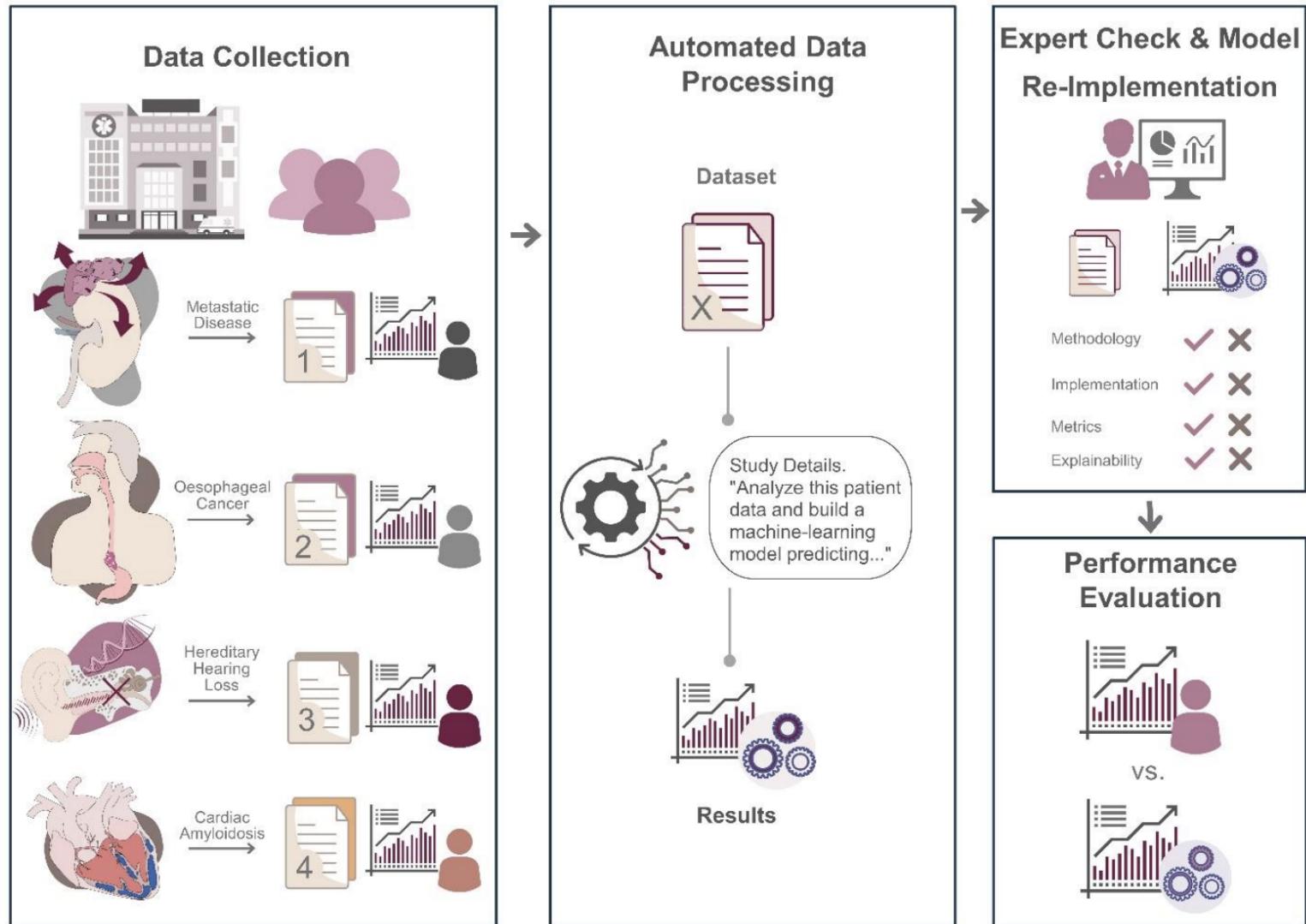
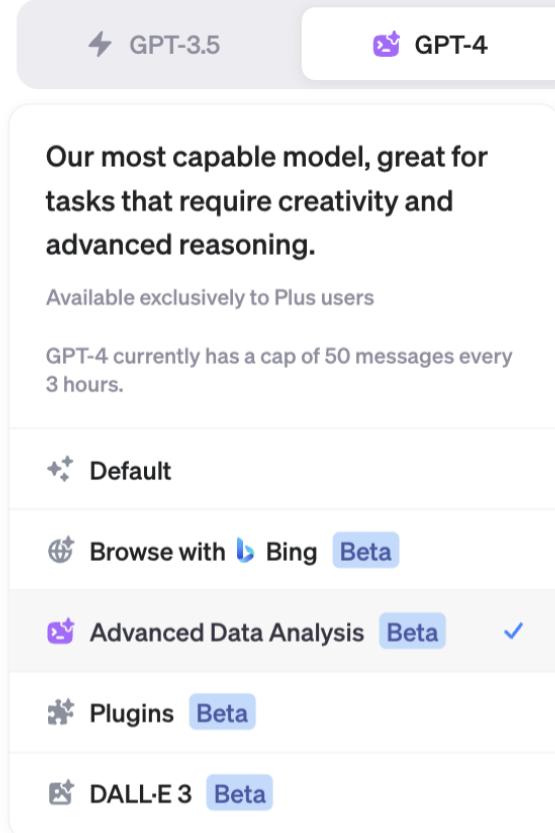


Figure 1: Study Design. Real-world datasets and study details from four large clinical trials were collected and input into the ChatGPT Advanced Data Analysis (ADA) tool. The tool autonomously selected the appropriate machine-learning models for the analysis following prompting. The models were expert-checked and comprehensively evaluated. The ChatGPT ADA-based predictions were compared to the original studies (benchmark publication) and the validator predictions following the re-implementation of the models.

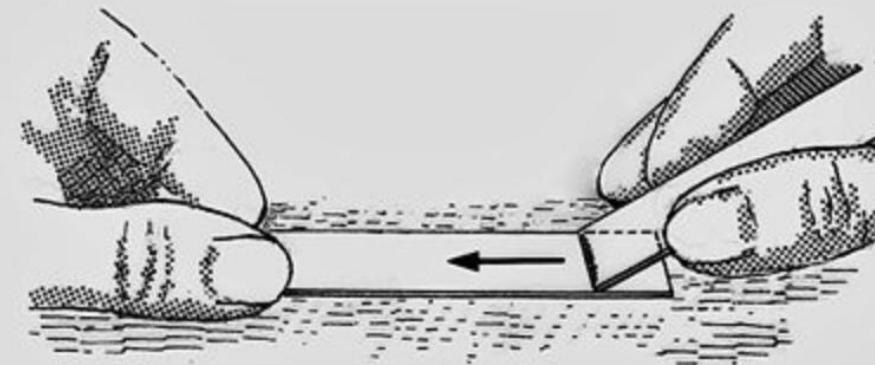
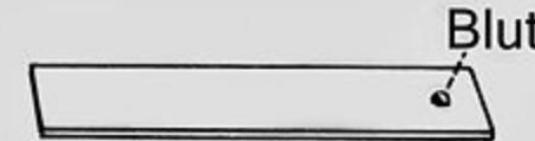


what is this



This is a histological section of tissue that has been stained, likely with hematoxylin and eosin (H&E). It appears to be a section of the epithelial lining of an organ, possibly the intestine or another part of the gastrointestinal tract. The prominent, finger-like projections are called villi, which increase the surface area for absorption. The cells lining the villi are epithelial cells. The underlying layer with a wavy appearance is the lamina propria, which contains connective tissue, blood vessels, and other cell types.

https://commons.wikimedia.org/wiki/File:Colon,_intermed._mag.jpg



Was passiert hier? Beschreibe es mir kurz.



Das Bild zeigt eine Illustration von Blutentnahme- oder Injektionstechniken.

- Im oberen Teil des Bildes gibt es zwei Illustrationen von Nadeln. Die Nadel im oberen Diagramm hat ein Bluttropfen am Ende, was darauf hindeutet, dass Blut entnommen wurde. Die Nadel im mittleren

A composite image showing a female scientist in a white lab coat and glasses interacting with a futuristic, metallic humanoid robot. The scientist is pointing towards the robot's hand, which holds a cylindrical device. The scene is set in a modern laboratory with blue lighting and equipment in the background.

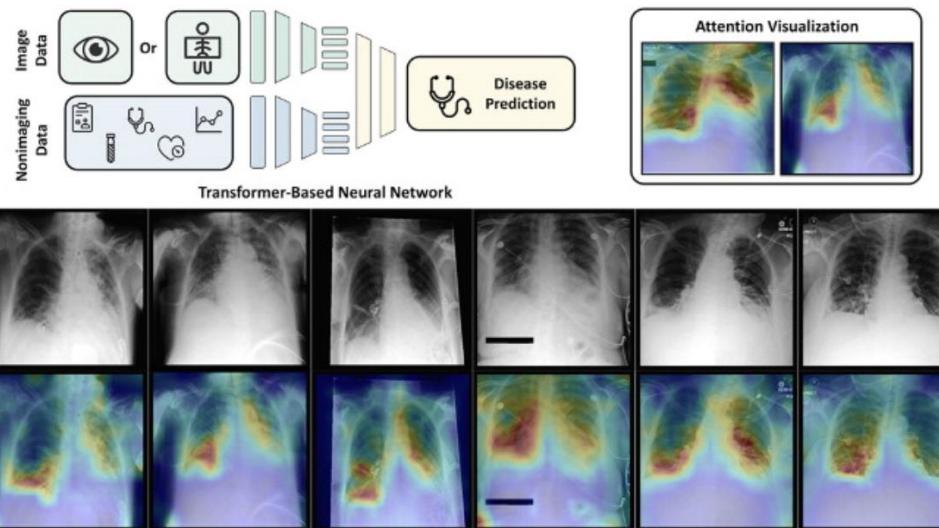
Multimodale KI in der Medizin

Radiology

ORIGINAL RESEARCH • COMPUTER APPLICATIONS

Multimodal Deep Learning for Integrating Chest Radiographs and Clinical Parameters: A Case for Transformers

Firas Khader, MSc • Gustav Müller-Franzes, MSc • Tianci Wang, BSc • Tianyu Han, MSc • Soroosh Tayebi Arasteh, MSc • Christoph Haarburger, PhD • Johannes Stegmaier, PhD • Keno Bressem, MD • Christiane Kuhl, MD • Sven Nebelung, MD • Jakob Nikolas Kather, MD • Daniel Truhn, MD, PhD**



- Transformer DL model was trained to diagnose 25 diseases using multimodal data from retrospective chest radiographs and clinical parameters (training; $n = 33\ 893$, $n = 28\ 809$).
- The multimodal model when tested on a public dataset, Medical Information Mart for Intensive Care, had mean AUC of 0.77, compared with 0.70 for model using chest radiographs only and 0.72 for model using clinical parameters only.

Khader et al.,
Radiology
2023

Multimodale Pathologie: KI-Immunoscore

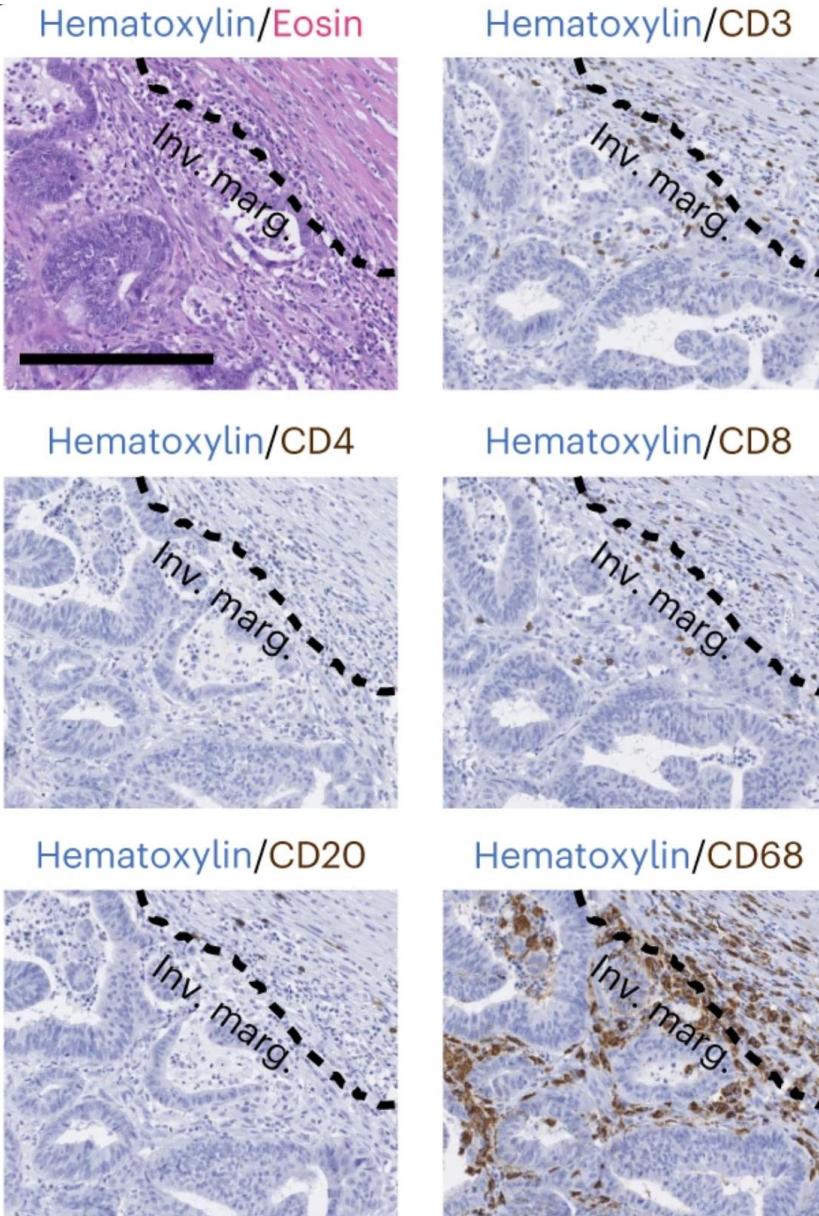
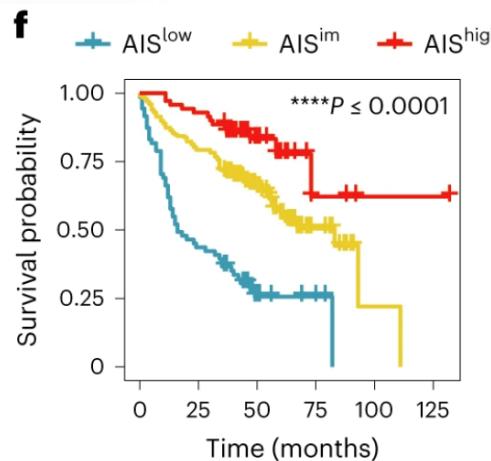
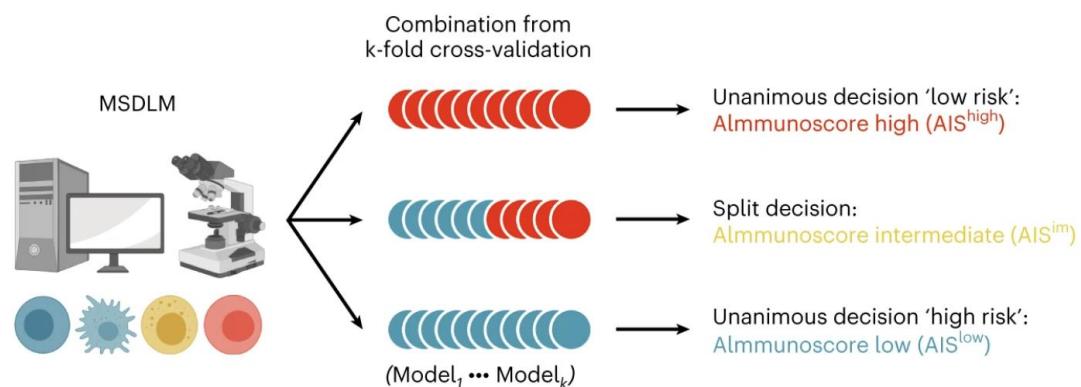
nature medicine

Article <https://doi.org/10.1038/s41591-022-02134-1>

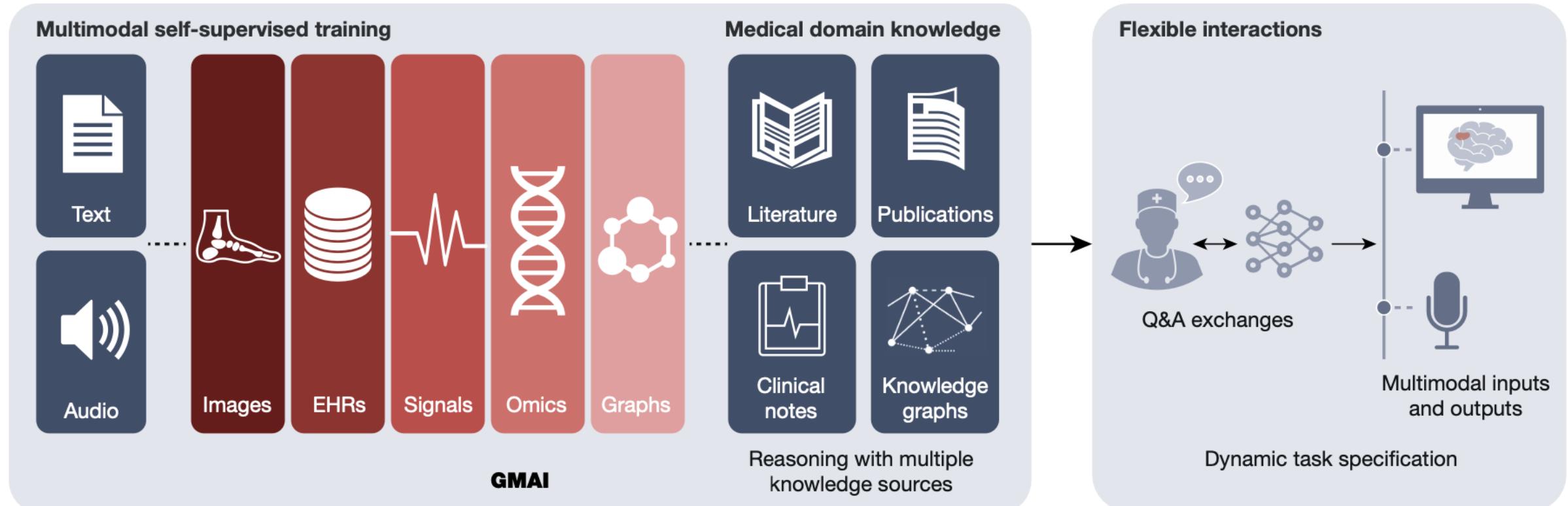
Multistain deep learning for prediction of prognosis and therapy response in colorectal cancer

Received: 18 May 2022 Accepted: 17 November 2022 Published online: 09 January 2023 Check for updates

Sebastian Foersch¹, Christina Glasner¹, Ann-Christin Woerl^{1,2}, Markus Eckstein³, Daniel-Christoph Wagner¹, Stefan Schulz¹, Franziska Kellers^{1,4}, Aurélie Fernandez¹, Konstantina Tserea¹, Michael Kloth¹, Arndt Hartmann³, Achim Heintz⁵, Wilko Weichert⁶, Wilfried Roth¹, Carol Geppert³, Jakob Nikolas Kather^{1,7,8,9} & Moritz Jesinghaus^{1,6,10}



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