

0-Click AI-Solutions for Clinical Routine (CE-IVD)

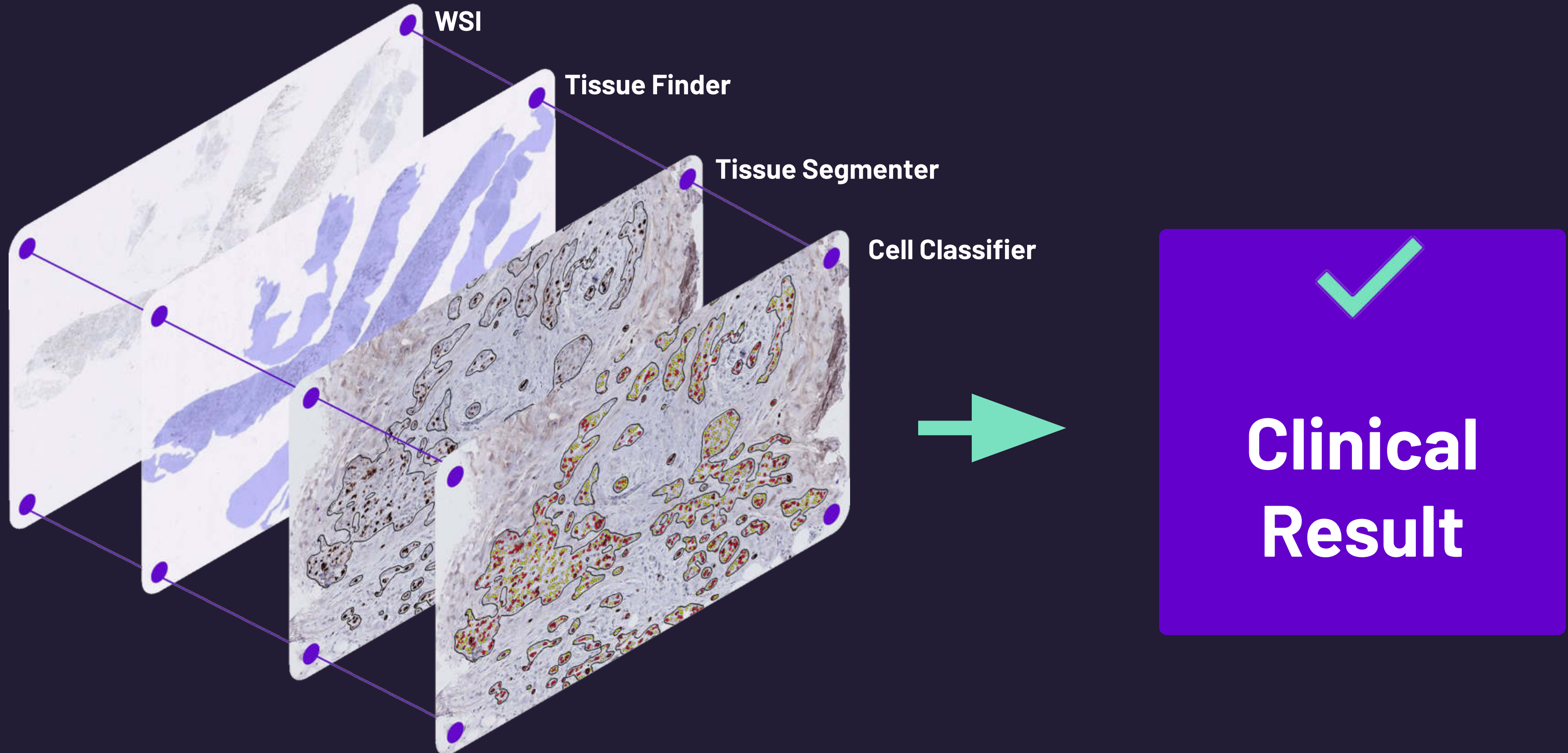
SDiPath Annual Meeting
January 19th, 2023, Bern (CH)

Dr. Anil Berger (VP Sales & Marketing)

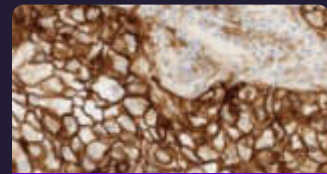


0-Click AI for Biomarker Analysis

Patent pending



The Largest Number of CE-Marked AI Algorithms available for you today



CE Marked

PD-L1 Lung NSCLC

Our PD-L1 product for NSCLC for SP263 helps you quantify tumor cells to for diagnosing the TPS score



CE Marked

HER2 Breast Rol

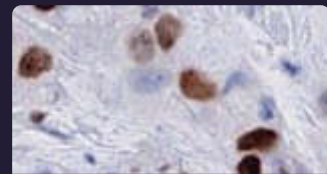
is a solution for the quantification of a Rol , including Her2Low. Pathologists draw a Rol and check the results.



CE Marked

Ki-67 Rol Breast

Ki-67 Rol Breast is a solution for labs with a limited internet bandwidth or for microscope camera images.



CE Marked

Ki-67 HS Breast

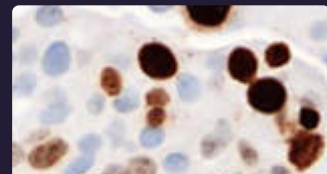
Ki-67 Hotspot is the solution for all labs that quantify with the *old* guidelines. It is a 0-click solution. WSI-results only need to be checked by a pathologist.



CE Marked

PR Breast

PR is a 0-click solution for the quantification of a whole WSI. Results only need to be checked by a pathologist.



CE Marked

Ki-67 4R Breast

Ki-67 4R is the solution for all labs that implement the *new WHO* guidelines. It is a 0-click solution. WSI-results only need to be checked by a pathologist.



CE Marked

ER Rol Breast

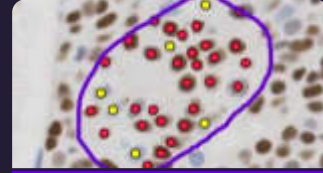
ER Rol Breast is a solution for labs with a limited internet bandwidth or for microscope camera images.



CE Marked

ER Breast

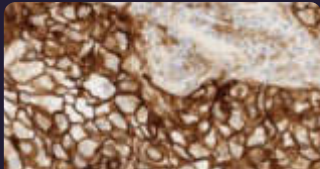
ER is a 0-click solution for the quantification of a whole WSI. Results only need to be checked by a pathologist.



CE Marked

PR Rol Breast

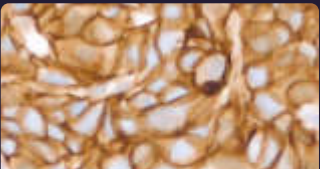
PR Rol Breast is a solution for labs with a limited internet bandwidth or for microscope camera images.



Ru0

PD-L1 Lung AllClones

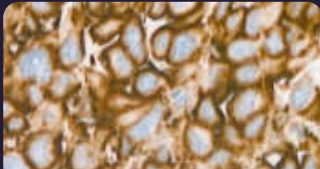
Our PD-L1 product for NSCLC for any antibody clone helps you quantify tumor cells to for diagnosing the TPS score



Ru0

HER2 Breast

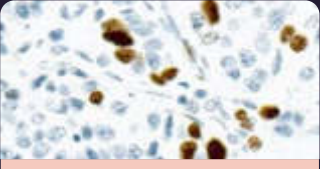
is a 0-click solution for the quantification of a whole WSI. Results only need to be checked by a pathologist.



Ru0

PD-L1 ESCC

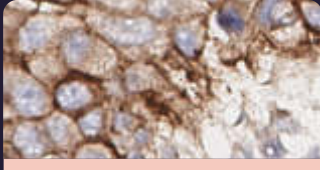
is a 0-click solution for the quantification of a whole WSI for PD-L1 stained esophageal squamous Cell carcinoma.



Ru0

Ki-67 Neuroendocrine

Quantification of Ki-67 stained neuroendocrine tumors using an RoI.



Ru0

PD-L1 Urothel

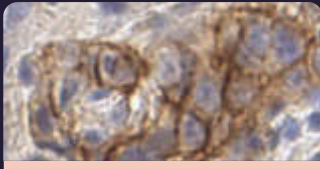
is a 0-click solution for the quantification of a whole WSI for PD-L1 stained bladder cancer.



Ru0

Onychomycosis

Our Nail fungus AI analysis the WSI and detects nail fungus with an AUC of 0.98*.



Ru0

PD-L1 Gastric

is a 0-click solution for the quantification of a whole WSI for PD-L1 stained gastric cancer.



Ru0

p53 Breast

p53 is a solution for the quantification of p53 marked cells in Breast cancer. Pathologists draw a RoI and check the results.

+10.000 patients
diagnosed with
our AI assiting





1

Live Demo

Let the Products Speak for Themselves



2

Mindpeak

Robust Clinical Algorithms in a Nutshell

Outstanding Leadership from AI & Healthcare

We are a team of 25 passionate entrepreneurs, AI experts and health care specialists



Felix Faber

CEO

Founded and IPO'd Bytro
(Stillfront; market cap of 1bn€);
2x world champion in robotic
soccer



Dr. Tobias Lang

CTO

Established AI-System at
Zalando. Researcher in drug
discovery. SCR Princeton,
PhD at FU Berlin and Prof.
Riedmiller's lab (DeepMind).



Marc Päpper

CIO

Masters of Science in
Computational Neuroscience at
LMU Munich and researcher at UC
Berkeley. Invited technical
conference speaker.



Dr. Khalid Daifalla (MD)

Chief Pathologist

Former Pathologist at U
Erlangen. Expert in the fields of
Breast-, Gyn- and
Uropathology. MD in Internal
Medicine.

Universitätsklinikum
Erlangen



Dr. Anil Berger

VP Sales & Marketing

Life sciences and health care expert
with track record in B2B sales
(medneo, Eurofins, SGS Institut
Fresenius) PhD Biochemistry



eurofins Beiersdorf



Dr. Stefan Günther

VP Regulatory & Quality

Regulatory and Quality management
history in healthcare with a successful
FDA 510k application for AI product.



Advisory Board



Prof. Manuel Salto-Tellez

Clinical Professor at Queen's University
Belfast of Dentistry and Biomedical Sciences



Prof. Catarina Eloy

Head of the Pathology Department at
IPATIMUP, Porto, Portugal



Prof. Markus Tiemann

Pathologist and Managing Director at
Institute of Haematopathology Hamburg



Prof. Rajendra Singh

Director Dermatopathology at Northwell
Health (USA), founder of PathPresenter



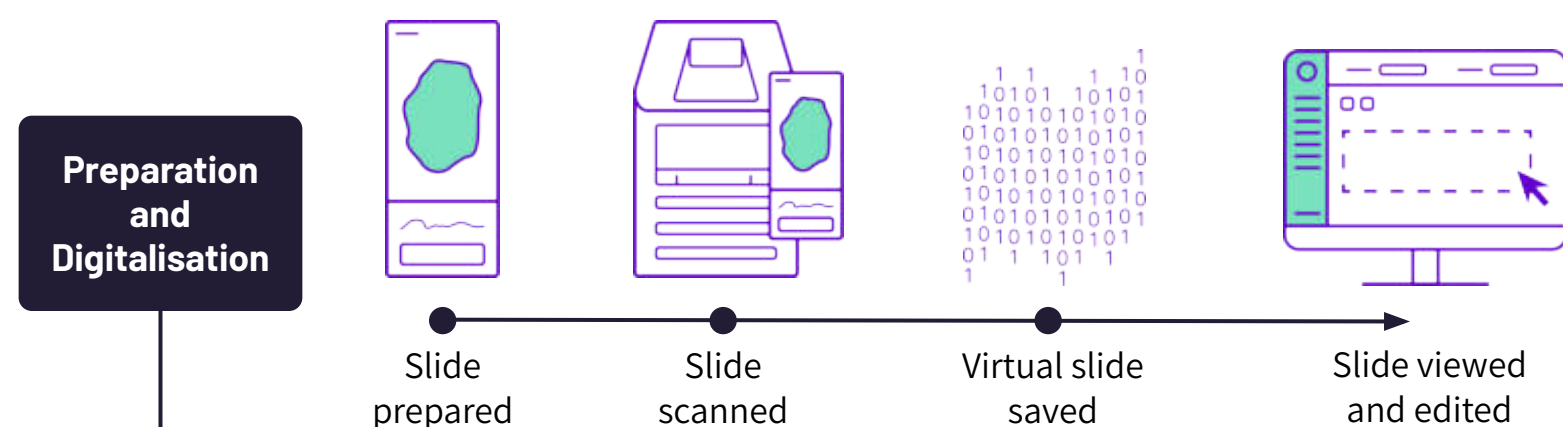
Geoff Baum

VP of Product at Adobe, co-founded
Garage Ventures with Guy Kawasaki, U
Stanford

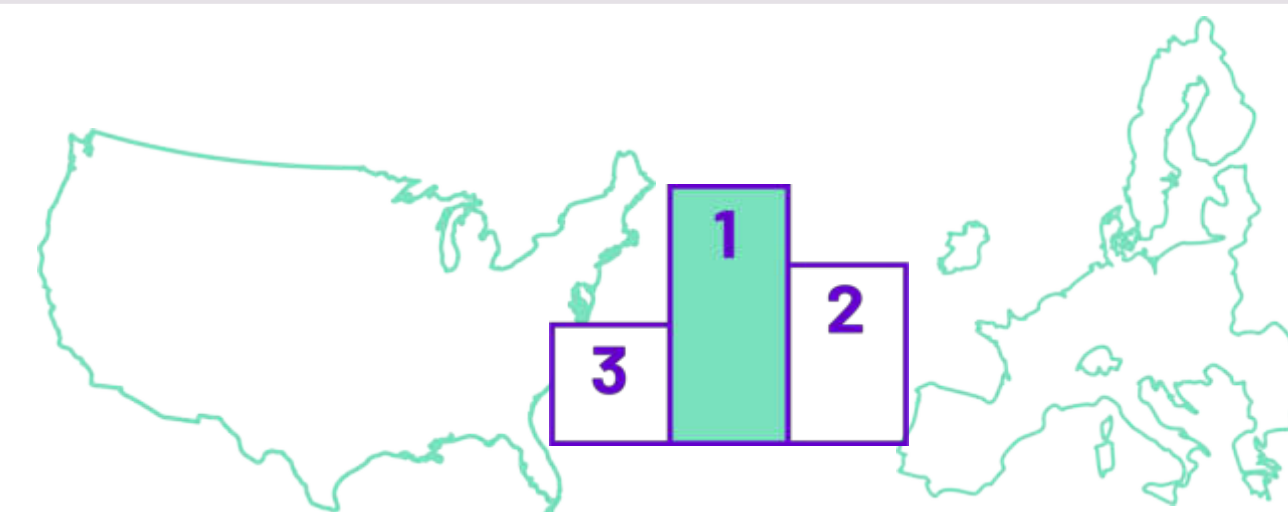
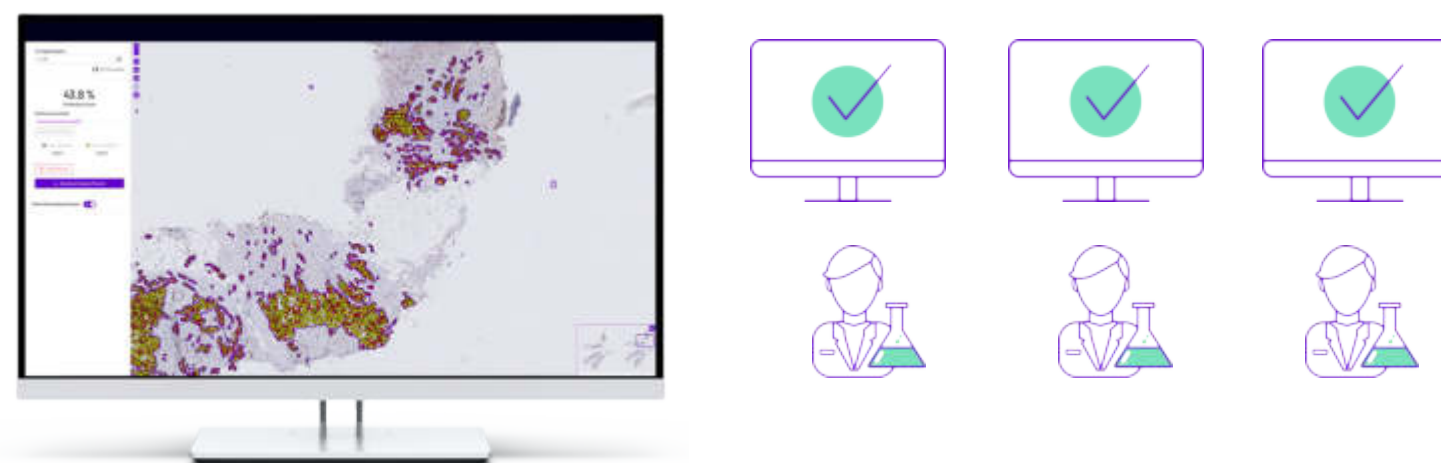
We Have the Most Integrations Globally

Our Partner Integrations cover 90% of the Market

AI deeply integrated into the workflow



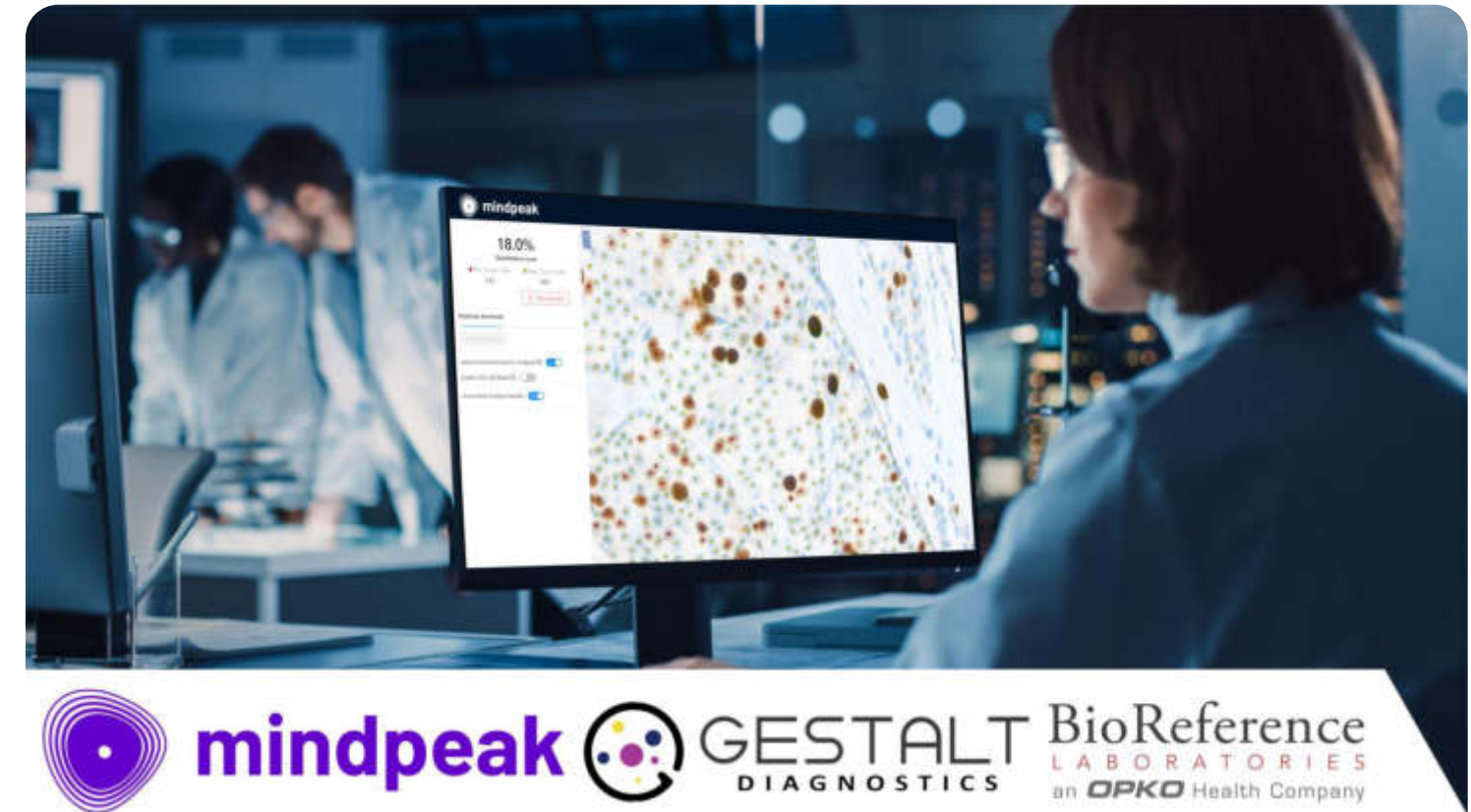
Mindpeak AI integrated into 3rd Party Image Management System



Mindpeak's AI is the most widely integrated AI globally



Mindpeak's AI was First in US Clinical Routine



Gestalt Diagnostics and MindPeak provide the first Artificial Intelligence based diagnostics solution used in clinical routine pathology in the USA

NEWS PROVIDED BY
Gestalt Diagnostics →
Jan 04, 2022, 09:00 ET

"This makes BreastIHC the first AI-based pathology product to be used in routine clinical practice in the United States."



3

Evidence



“ Fortunately, the Mindpeak’s AI solution we have in place decreases the **time needed per case by 80% or more**, which allows us to better position ourselves as a reference center for sent-in samples. ”

Unilabs' Chief Medical and Operations Officer,
Dr Christian Rebhan



Robustness by Design



Cases

204 (balanced for clinical scores)

Images

whole-slide images (not small hotspots)

Stainers

3 (Roche, Leica, Dako)

Scanners

6 (Hamamatsu NanoZoomer S360, Leica Aperio GT 450, Roche DP200, 3DHistech P1000, Nikon microscope camera, Philips IntelliSite UFS)



Pathologists

10

Conditions

(1) human
(2) human + BreastIHC (1 month washout)

Total number of observations

4080 observations (204 x 10 x 2 diagnoses)



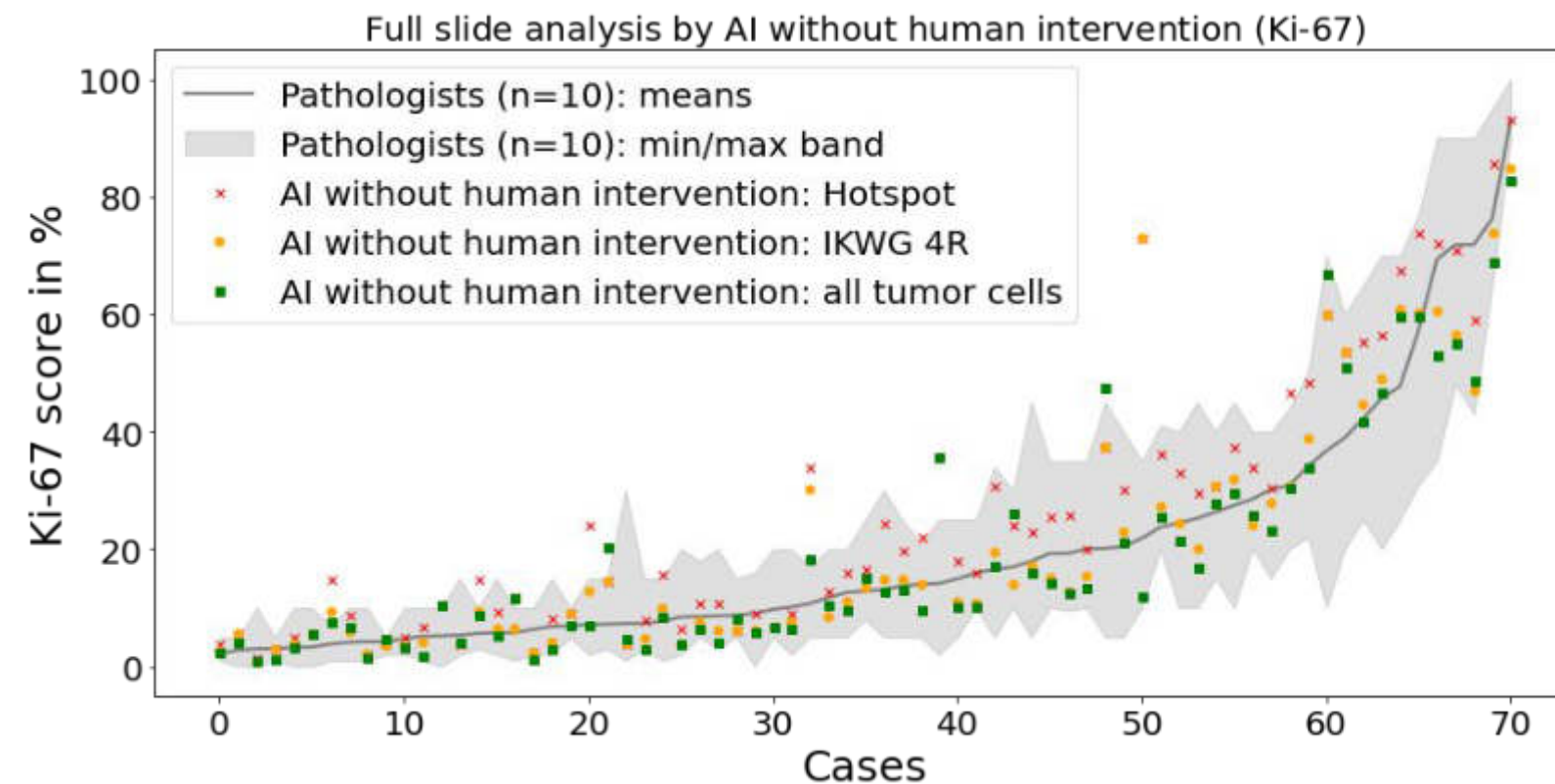
! Even with a free choice of hotspots in both conditions!

Publications

nature: MODERN PATHOLOGY

Publication pending:

Non-inferiority of AI-assisted analysis of Ki-67 and ER/PR in breast cancer routine diagnostics



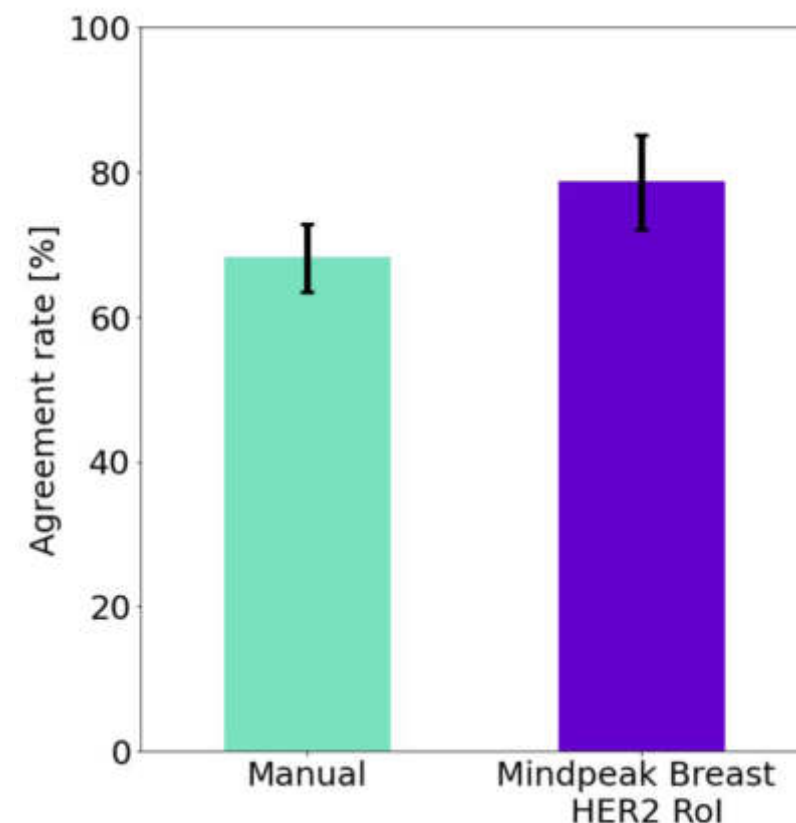
Accepted Abstracts @ USCAP 2023

1. Ki-67 and ER/PR in breast cancer routine diagnostics [UK Erlangen]
2. AI in combination with the global counting methodology by the International Ki-67 in Breast Cancer Working Group identifies more patients eligible for treatment and increases diagnostic speed by 8x. [Unilabs]
3. HER2low concordance

HER2(low) – World-Class Algorithm (CE-IVD)

Mindpeak Breast HER2 RoI (CE-IVD)

- Clinical Performance Evaluation
- 3 labs, 3 stainers, 4 scanners
- mAbs: 4B5, EP3, A0485
- inter-reader agreement
 - humans alone: 68 %
 - humans + AI: 79 %



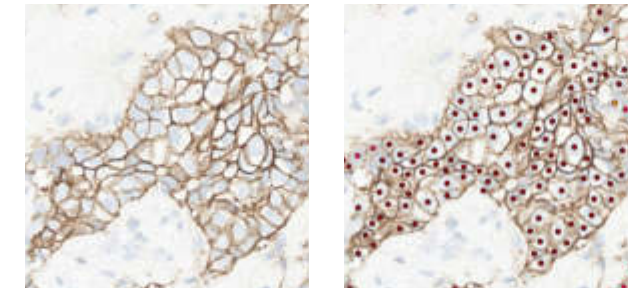
Study: HER2

- - strictly confidential under NDA -
- (N = 100, AI unattended)
- concordance vs. ground truth: 100 %

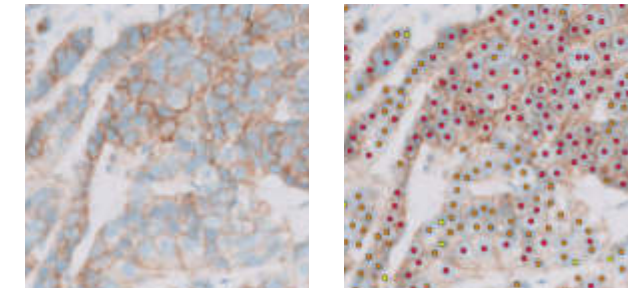
Study: HER2low

- - strictly confidential under NDA -
- (N = 200, 12 pathologists, 1 reference expert)
- only 0 and 1+ cases
- human concordance vs. reference: 68 % vs.
- human+AI concordance vs. reference: 73.1 %

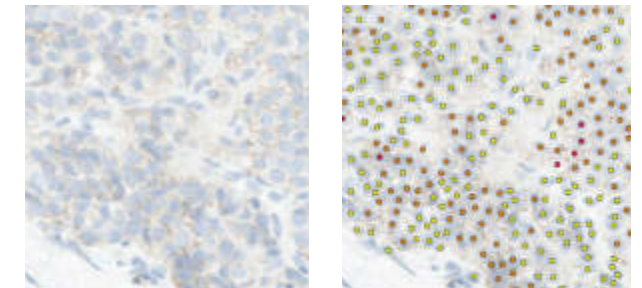
3+



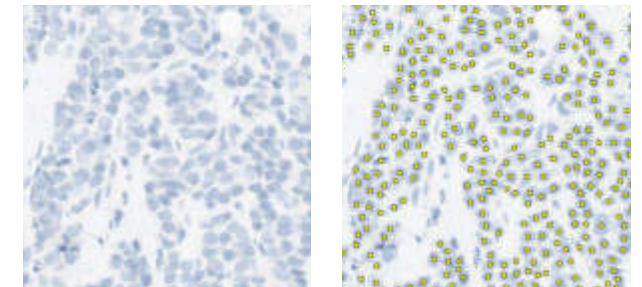
2+



1+



0



Mindpeak Lung (NSCLC) PD-L1 SP263 passes German Digital Readout Test for SP263 IVD (Roche Ventana)



Trial conducted on 12 samples
stained at independent lab



Whole slide AI results **without human intervention** submitted



German Ring Trial Digital Readout Test
passed with **92% concordance**

PD-L1 (NSCLC) Score 0.92

AI \ GT	0	1	2
0	4	0	0
1	0	3	1
2	0	0	4

Lung (NSCLC)	
0	< 1 %
1	1%-49%
2	>=50%



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