

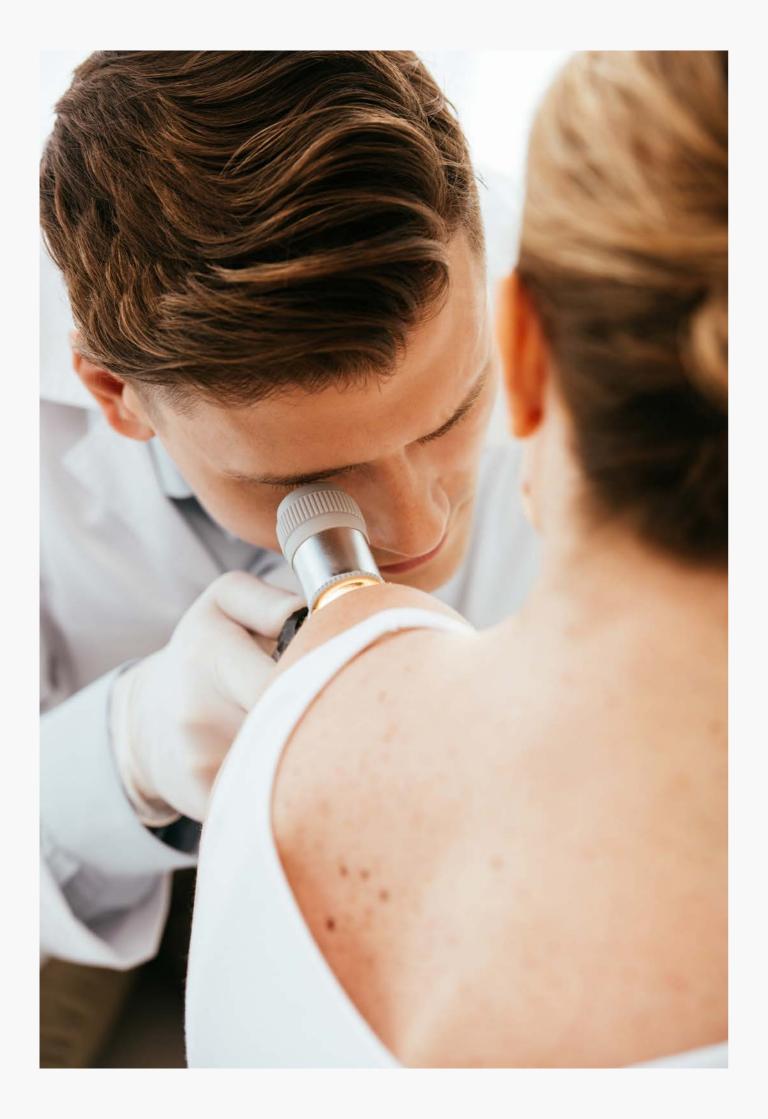
Histolog® Scanner

Cancer cells at your fingertips

Dermatology brochure - April 2023







Clinical Need The

When surgically excising a tumor, the challenge for the surgeon is to remove all the cancerous tissue while preserving as much healthy surrounding tissue as possible.

In the context of Mohs or slow Mohs surgery, frozen section analysis provides an accurate method to examine the surgical specimen and make sure that no cancer cells are left in the patient. However, slide preparation takes time and requires a complex organization and workflow. The patient will have to wait for the results in the hospital (Mohs) or at home (slow Mohs) with an open wound for up to 24 hours before the surgery can be finalized. This represents a burden for both patients and healthcare centers.¹

Furthermore, some tumor excisions can present atypical topology or size preventing them to qualify for Mohs or slow Mohs procedures as there is currently no intraoperative assessment method compatible with these specimens.²

Unmet medical need :

- Fast intraoperative assessment
- Simplified organizational procedure

¹Bittner, Guilherme Canho et al. "Mohs micrographic surgery: a review of indications, technique, outcomes, and considerations." Anais brasileiros de dermatologia vol. 96,3 (2021): 263-277. doi:10.1016/j.abd.2020.10.004

²Ingraffea, Adam A. MD1; Neal, Kenneth W. MD2; Godsey, Tonja HT1; Gloster, Hugh M. Jr. MD1. Time-Saving Tips for Processing Large, Fatty Mohs Specimens. Dermatologic Surgery 38(9):p 1540-1541, September 2012. | DOI: 10.1111/j.1524-4725.2012.02521.x

• Imaging method compatible with diverse specimens

SS

improving the journey of patients suffering from cancer by enabling fresh tissue analysis in real time to drastically reduce Saman Tree Medical aims to be a game changer in the era of clinical workflow digitalization. We are committed to delays in establishing and executing the treatment plan.



Global mapping of the specimen immediately during surgery

The Histolog[®] Scanner is a breakthrough medical imaging modality based on a novel ultra-fast confocal microscopy technology invented in 2010.

Its innovative design makes it highly practical for quick assessment during surgery, bringing the clinician one touch-onthe-screen away from visualizing cancerous cells immediately on a surgical specimen.

In Mohs surgery, it takes on average 6 minutes to process the specimen and review the image, giving similar detection performances as frozen section analysis. Basal Cell Carcinoma (BCC), the most common type of skin cancer, can be detected with high sensitivity and specificity of >80% and 100%, respectively.³

³Grizzetti, L., & Kuonen, F. (2022) (cf p.5)







Clinical partners

The Histolog Scanner is a game changing approach installed in leading centers in Europe for its application in breast, pathology, prostate and skin.

The first utilization of the Histolog Scanner in the context of Mohs surgery was at Tübingen University by Prof. M. Möhrle. He showed that the Histolog Scanner was a valid alternative to frozen section analysis.

These data were later confirmed by Dr. Kuonen (CHUV, Switzerland) who obtained high performances with >80% time gain compared to FSA.³

³Grizzetti, L., & Kuonen, F. (2022) (cf p.5)



Canisius Wilhelmina Hospital

St. Vincenz Hospital

A STATISTICS

- Heidelberg University Hospital
- Tübingen University Hospital
- University Hospital rechts der Isar
- Brust Centrum Zürich

CHUV Lausanne

Clinical evidences

LARGE SPECIMENS SCANNING

Ex vivo confocal microscopy for the intraoperative assessment of deep margins in giant basal cell carcinoma

JAAD case report, 2022 N. Kechrid, L.Tonellotto, S. Monnier, S. A. Rossi, F. Ulrich, F. Kuonen

Evaluation of the Histolog Scanner on giant skin surgical specimens : case report on giant BCC

- Successful scanning and identification of cancer lesion with the Histolog Scanner
- Make IOA for giant specimens possible
- Allow direct reconstruction

MOHS SURGERY

Ex vivo confocal microscopy for surgical margin assessment: A histology compared study on 109 specimens

Skin Health and Disease, 2022 L. Grizzetti, F. Kuonen

Evaluation of the Histolog Scanner as an alternative for H&E in Mohs surgery: prospective study on 109 specimens

- Drastic time saving •
- Basal Cell Carcinoma: Sensitivity >80% and specificity 100%
- Realistic approach for Mohs surgery ٠
- Development of dermatology image Atlas

MOHS SURGERY

Diagnostic accuracy of a new ex vivo confocal laser scanning microscope (CLSM) compared to H&E-stained paraffin slides for micrographic surgery of basal cell carcinoma

JEADV 2018 N.Peters, M. Schubert, G. Metzler, J.-P. Geppert, M. Moehrle

Evaluation of the process to generate and analyse CLSM images and assessment of the accuracy to detect basal cell carcinoma (BCC) tissue : prospective study on on 544 fresh specimens

- Time-saving and very effective alternative to classical paraffin-embedded or frozen section
- BCC detection performance: sensitivity >70% & specificity 96%





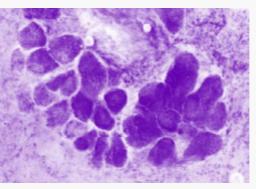
BASAL CELL CARCINOMA

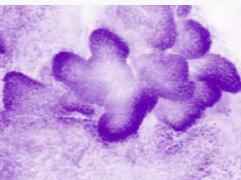
S Morphology image in 5 minutes

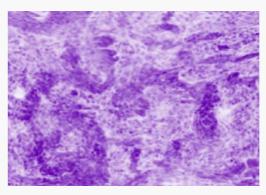
Gold standard information minus the waiting

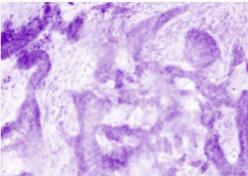
The Histolog[®] Scanner provides morphology images immediately during surgery, skipping the steps of FSA. Assessment is performed using the criteria you are experienced with:

- Higher nuclear density
- Peripheral palisading
- Clefting
- Increased nuclear/cytoplasm ratio

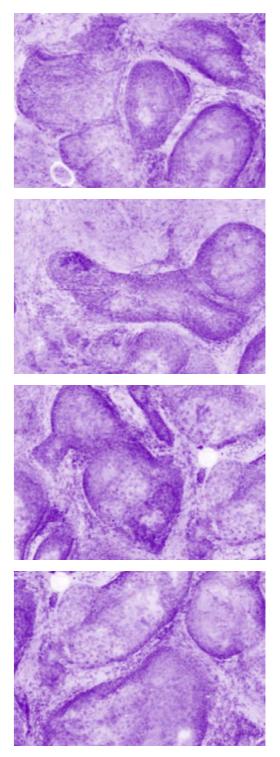








SEBACEOUS GLAND





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