

Morphle Labs and 8EPUCG2021 Collaboration

All set to take its sharper, smarter, and simpler digital pathology solutions to the global pathology community



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3 Great Problems of **DIGITAL PATHOLOGY, SOLVED!**



[Affordability without compromises]

[Cytology scans with overlapping cells] [Urgent reporting for Frozen Section / ROSE]



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United Arab Emirates, Dubai, Aug 7, 2021 ([Issuewire.com](https://www.issuewire.com)) - Digital pathology: A game-changer during the Covid-19 pandemic

For more details: <https://morphlelabs.com/>

With the rise of complex cases demanding secondary opinions, workflow inefficiencies in labs, global lockdowns, travel bans, and the shortage of resources, pathology labs the world over faced an onslaught of challenges when the Covid-19 pandemic struck.

One of the biggest game-changers has been the increasing application of digital pathology. It has unlocked new models for pathologists giving them the power and the flexibility to serve patients from anywhere without being tethered to their labs.

Digital pathology has been able to accelerate diagnosis, rapidly create and share datasets for diagnosis and research, and break down the traditional boundaries of a lab. It does this by enabling diagnosis on a screen — from anywhere across the world — instead of a physical microscope in a lab. Today, thanks to telepathology, tissues from patients who succumb to a disease, in one corner of the world, are helping researchers investigate the disease's pathology, treatment, and prevention from miles away.

It has enabled countless path labs the world over to keep their businesses afloat and serve their patients and communities despite multiple constraints. Cambodia-based Path Diagnostics was one such organization that made the switch to digital pathology in the early months of the pandemic. They procured Cambodia's first-ever automated virtual slide scanner from Morphle Labs, and now use Morphle's telepathology setup to power 100% of their histology & cytology diagnosis and reporting.

Dr. Hav Monirath, a US-based pathologist who works with Path Labs shares, “Morphle’s telepathology setup has huge potential to improve access to diagnostic services for underserved geographies. It has helped me deliver quality pathology expertise to my patients, all the way in southeast Asia. Every day, it helps me to report cases from the mobile device in my hand — in the comfort of my study.”

Beyond diagnostics: Why digital pathology is here to stay

Unlocking new models of pathology education

Academia and research were two other areas that were deeply affected by the pandemic and the resulting need for social distancing. There was no way for students to be in a lab, let alone, huddle around a multi-headed microscope. Even if classes could be conducted virtually, replicating the lab environment, and specifically, the consultation and collaboration between faculty, resident doctors, and students, was a challenge.

This is exactly what Morphle was able to do for the pathology department at SRMC University, which hosted its annual international pathology conference, 100% virtually — using Morphle whole slide imaging. Despite the initial nervousness, the program turned out to be a huge success — with double the attendance and significant international participation.

Speaking about the event, Dr. Rajendiran, Professor of Pathology at SRMC University, shares, “800+ participants were able to review digitized specimen slides simultaneously — with no lag in the image viewers on their computer screens from across the world.”

This is proof of how digital pathology is going to remove barriers to pathology education and pave the way for knowledge sharing, interpretation, and collaboration. All you need is a slide scanned, a professor, and students with a basic internet connection.

There are multiple other long-term benefits of digital pathology. For starters, digitizing glass slides creates a robust reference dataset, for easy retrieval and further research. Not only does this mean opportunities to gather timely second opinions on existing and past cases, but it also means a reduction in physical storage and the handling of glass slides. A 1ft by 1ft NAS device can handle a full year of scans for high throughput institutions!

Digital pathology can also help allay anxieties associated with the handling of lab material, by decreasing interactions with physical samples.

Most importantly, the availability of digital slides opens the gates for Machine Learning and Artificial Intelligence to assist pathologists in making accurate and fast diagnoses.

About Morphle Digital Pathology

Morphle Labs provides a complete range of digital pathology solutions, with a product line that handles a wide range of throughputs along with AI-assisted scanning to ensure high speed and crystal-clear scans. Their scanner variants handle from 1 to 480 slides at a time and offer a plug-and-play model not seen before in digital pathology. There is no complex software to be installed: the device is preinstalled and software updates are taken care of automatically.

Morphle also provides on-demand calibration support and training. Once set up, multiple users can access it remotely from any device at the same time — all they need is a web browser. Morphle’s scans

ensure high-quality scans in less than 500 MBs, making them ideal for diagnosing on the go. Some of its standout features include:

- **Affordability without compromises:** Its patented technology enables high-speed scanning with perfect image quality 80X scans.
- **Real-time diagnosis with live mode:** An intuitive interface that helps navigate around the scan while creating a heat map of the seen regions in real-time.
- **Beyond histopathology slide scanning:** Morphle has broken traditional digital pathology boundaries that limit it to histopathology to enable scanning across all layers of cytology slide ensuring that no detail is missed.

The feature with the biggest potential for innovation and collaboration is the AI suite that combines the benefits of AI with all the benefits of quality scan modes. This AI-Suite is designed to support deployments of image analysis tools with third-party app creators.

Speaking about their journey to 1M+ slides, Mr. S Daniel at Morphle Labs remarked, “We have seen what a huge role Artificial Intelligence and Machine Learning capabilities have to play in reducing turnaround time, enabling collaboration, and leveling up patient care. Moving out of the world of rays and lights into the world of bits and pixels opens up a whole new universe of possibilities.”

Designed for better pathology

Morphle’s products combine cutting-edge technology such as AI and ML and a deep understanding of the needs and issues of digital pathology to make digital pathology simpler, sharper, and more affordable for pathologists the world over. To learn how you can get started with digital pathology or make the most of Morphle’s products, head over to Morphle Labs or contact them at +1 (628) 213 7227.

Don’t miss the Morphle Lab’s workshop at the [8th Emirates Pathology & Digital Pathology Conference](#) on August 10–12, 2021.

To attend the conference, please register here: <https://pathology.universeconferences.com/registration/>

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