

Implement – and Walk Away

Automating RNA ISH to build a robust, accurate picture of molecular pathways

Leica Biosystems has partnered with ACD to create a fully automated, walk-away solution. How? By automating RNA detection and enabling chromogenic ISH (CISH) on the BOND-III fully automated IHC/ISH stainer. BOND RNAscope® Brown Detection is intended for staining sections of FFPE tissue on the BOND-III stainer.

The ease of adoption of RNA ISH technology on the BOND-III stainer has enabled laboratories to quickly establish this technology, minimizing inter-user variation and optimizing sample pretreatment.

“We introduced BOND-III in our Pathology Department in 2016 for IHC and FISH analysis,” says Denise Morotti, Molecular Geneticist at ASST Papa Giovanni XXIII in Bergamo, Italy. “From the beginning, we had good results, despite our technical staff’s rotating weekly to different laboratory

sectors. Thanks to the instrument’s easy setup and intuitive programming, we quickly obtained reproducible staining in a standardized and fully traceable way.”

She continues, “Last spring our hospital was the first in Europe to face the COVID-19 pandemic. We started using BOND-III to look for virus in autopsy samples with a default pretreatment protocol. Within few days, we were able to set up different protocols for a number of tissue specimens – lung, kidney, heart, and placenta. In a couple of weeks, we had collected enough data to better describe and understand what was going on.”

Padua University in Padua, Italy, introduced the fully automated RNAscope Brown Detection kit on BOND-III in the summer of 2020. “By introducing the automated method, we have improved workflow productivity and produced clear staining in a standardized and repeatable way,” says Matteo Fassan, Professor of Pathology.

The BOND RNAscope Brown Detection kit’s ease of adoption has allowed laboratories to effortlessly introduce this new technology into their workflows. Using BOND RNAscope Detection in combination with the BOND-III fully automated IHC/ISH

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stainer reduces the possibility of human error and the inherent variability that results from repeated reagent dilution, pipetting, and application.

Performance claims for compatible probes have not been established. Probes used in conjunction with BOND RNAscope® Brown Detection should be validated by the user in accordance with local laws and regulations.

