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Application of digital pathology in clinical practice, education and research

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Digital pathology is a dynamic, image-based environment which enables the acquisition, management and interpretation of pathology information generated from a digitized glass slide. Healthcare applications include primary diagnosis, diagnostic consultation, intraoperative diagnosis, medical student and resident training, manual and semi-quantitative review of Immunohistochemistry (IHC), clinical research, diagnostic decision support, peer review and tumor boards. In the last decade digital pathology was rapidly expanding as an essential technology tool to support medical education, tissue based research, drug development and the practice of clinical pathology. This presentation is to highlight application of digital pathology application in daily clinical practice, education and research.

Biography

Dariusz Borys is an Associate Professor of Pathology and Orthopedic Surgery, Head of Orthopedic and Pediatric Pathology and Director of Digital Pathology at Loyola University Chicago. He has received his Doctor of Medicine from the University of Wroclaw, Poland in 1994 and completed a Residency program in Anatomic Pathology at County General Hospital in Wroclaw, Poland in 1995. He has completed his Postdoctoral research at the University of Arizona, Tucson, Arizona in 1998. He continued on with and completed Residency training in both Anatomic Pathology and Clinical Pathology at University of Illinois at Chicago in 2001. He has received a Pediatric Pathology Fellowship at New York University, New York in 2005 and followed that with an Orthopedic Pathology Fellowship at NYU Hospital for Joint Diseases, New York in 2006. After completing his Fellowships, he becomes Faculty Member in the rank of Assistant Professor at University of California and then he finally moved to Loyola University Chicago in 2013. At LUMC he is appointed as an Associate Professor of Pathology and Orthopedic Surgery and is serving as the Head of Orthopedic and Pediatric Pathology and Director of Digital Pathology. Currently his research focuses on the molecular markers in diagnostic, prognostic and targeted therapy in osteosarcoma.

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