For several years, Dr. LaViolette's laboratory has been collecting a valuable dataset of histology slides of prostates surgically removed from prostate-cancer patients. These slides have been that are meticulously registered to quantitative MRI slices of the prostates prior to surgical excision and used to develop AI-based histology/pathology results derived only from the MRI parameters. This approach of using quantifiable diagnostic radiology images to derive pathology is known as "radio-pathomics".

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