

Brain Tumors: What the Physicist Can Add
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This lecture will provide an overview of brain tumor biology, along with basic and advanced MR imaging surrogates of brain tumor anatomy and physiology. We will then describe the current role of the MR physicist in MR image acquisition, analysis, and most importantly, interpretation of results and limitations. We will briefly discuss the imaging biomarker pipeline, using examples starting with invention to the necessities for integration of new imaging technologies into clinical trials.