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Pancreatic cancer is notoriously difficult to treat. One potential opportunity for targeting pancreatic cancer is through its modified amino acid metabolism. Specifically, depriving arginine-dependent tumor cells of arginine can lead to cell death. To achieve this, a polyethylene glycol (PEG)-conjugated arginine deiminase construct (ADI-PEG20) was previously designed and tested as a monotherapy in clinical studies with limited success. In the cover image, adapted from Figure 3 of the associated manuscript, Singh and colleagues demonstrate ADI-PEG20 radiosensitized pancreatic cancer cells by inducing ER stress (red fluorescence, BIP). Therefore, ADI-PEG20 could be combined with radiation therapy in patients whose tumors are arginine-dependent. Read the full study on page 2381.
Molecular Cancer Therapeutics

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