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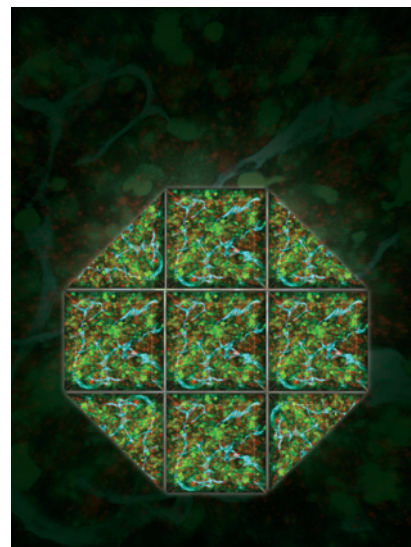
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ABOUT THE COVER

Metabolic alterations underlie the acquisition of a host of protumorigenic and progression-associated phenotypes. The cover image depicts three-dimensional imaging of an irradiated MCF7 xenograft tumor in which OGA, an enzyme that catalyzes the removal of O-linked N-acetyl glucosamine, had been ablated using RNA interference (DNA damage foci, red; shRNA expression, green; vascular endothelium, cyan). Increased protein O-GlcNAcylation resulting from OGA loss was associated with faster resolution of DNA damage. Taken together, the data suggest that rewiring of the hexosamine biosynthetic pathway may drive resistance to radiotherapy.



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