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A nanotheranostic system ...

... composed of upconversion nanoparticles (green luminous core) and S-nitrosothiol-grafted mesoporous silica (blue shell) for NO delivery to tumors is described by W. Bu, J. Shi et al. in their Communication on page 14026 ff. Upon deep-penetrating high-energy X-ray irradiation (shown as a beam of purple light), the low-energy S–N bond within the SNO group is cleaved to release NO molecules (shown as bubbles) in a controlled manner, thus providing a method for disrupting deep-seated tumors based on radiosensitization of NO.

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