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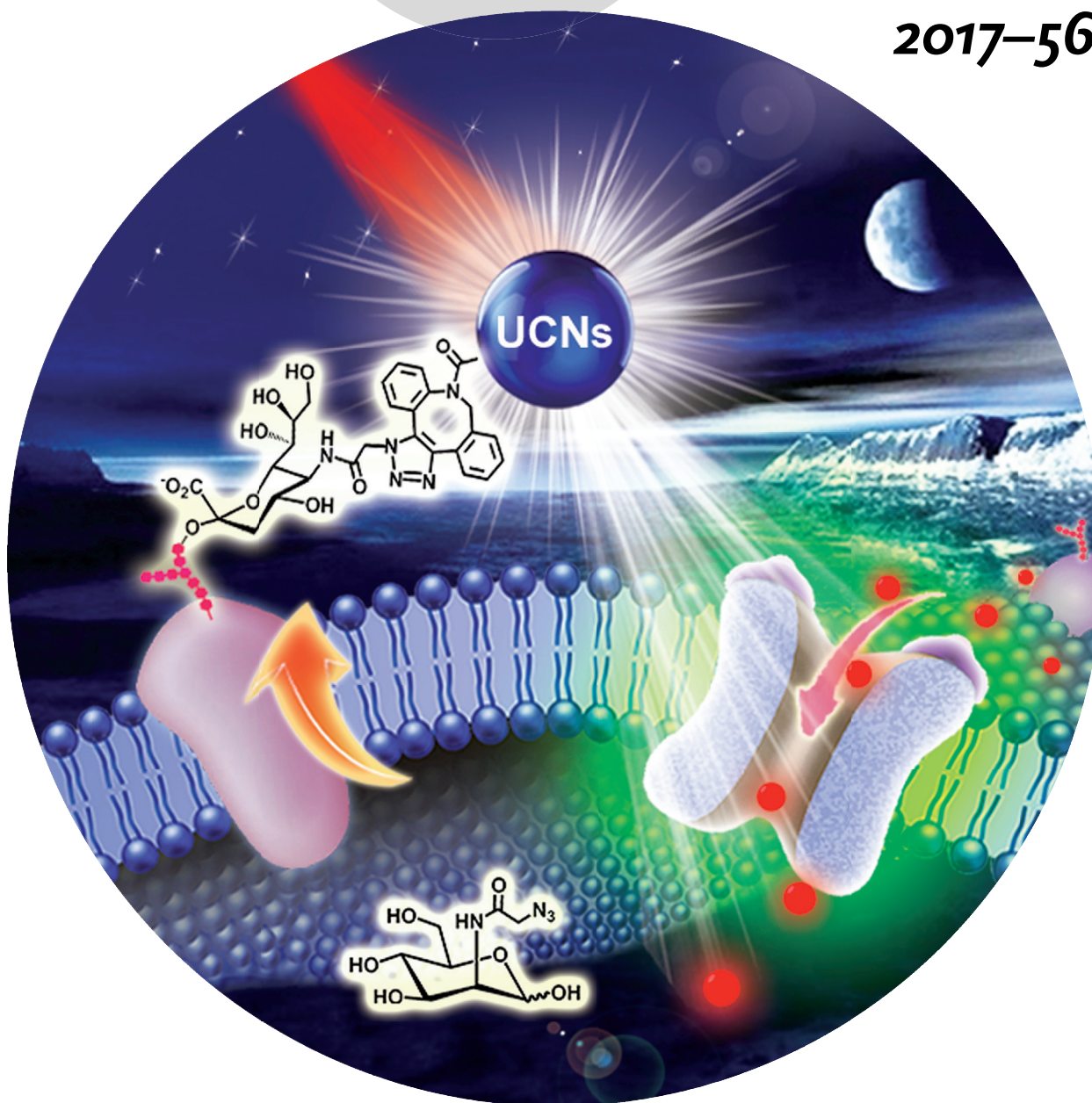
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Spatiotemporal regulation ...

... of membrane channel activity in living systems has been achieved by irradiation with near-IR light ($\lambda = 808$ nm), as reported by B. Xing, G. Liu, and co-workers in their Communication on page 3031 ff. Metabolic glycan biosynthesis is used to attach lanthanide-doped upconversion nanocrystals (UCNs) to the cell surface through copper-free click cyclization. Cation influx can be controlled by irradiation and membrane-associated activities manipulated in living cells and zebrafish.



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