

Houk-Jung Organic Colloquium



Prof. Joseph Ready
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“Small molecule inhibitors of 15-prostaglandin dehydrogenase promote tissue repair and regeneration”

Abstract: Prostaglandin E2 promotes tissue repair and regeneration in multiple tissues. Small molecule inhibitors of the PGE2-degrading enzyme, 15-prostaglandin dehydrogenase, could elevate PGE2 levels in vivo with applications in multiple disease contexts. We have discovered two chemical series of enzyme inhibitors. Medicinal chemistry efforts have led to sub-nM inhibitors with excellent bioavailability and physicochemical properties. Lead compounds demonstrate activity in mouse models of inflammatory bowel disease, recovery from bone marrow transplantation, and neurodegeneration.

Tuesday, February 9, 2021 | 4:00 PM | ZOOM

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