

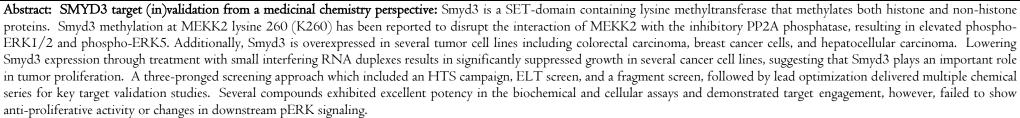
2024-2025 POCC Lecture Series Nov 21, 2024, 7:30 PM Dr. Beth Knapp-Reed GSK The Messy Business of Lead Discovery: Chemistry's Role & Challenges in Early Discovery IN PERSON @: Carolyn Hoff Lynch Lecture Hall Chemistry Building, University of Pennsylvania 6:30 Reception in the Nobel Hall Food and drinks to be provided!



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Fragment-Based Approach Toward Lactate Dehydrogenase A (LDHA) Inhibitors: A fragment based approach was used to identify a unique series of LDHA inhibitors with good ligand efficiencies. Subsequent optimization delivered a novel lead series with LDHA cellular activity of 10 μ M, selectivity against LDHB, and good physicochemical properties. The overall strategy of identification and optimization, lessons learned, and some guiding principles of the FBDD effort will be presented in the context of the discovery of a fragment-derived lead series for the inhibition of LDHA.

Bio: Beth Knapp-Reed has 18 years of experience in the pharmaceutical industry at GSK where she has coupled expertise in medicinal chemistry and matrix leadership with a passion for people development to deliver value to the GSK pipeline in all phases of drug discovery. In addition to leading chemistry teams across multiple therapeutic areas she has also helped build capability platforms in the areas of Fragment Based Drug Discovery and heterobivalent molecules, delivering multiple pre-clinical candidates from the latter platform. She currently leads a medicinal chemistry team focused on small molecule portfolio delivery. Beth completed her B.S. in Chemistry at Alma College in Michigan. She then moved to the University of Michigan in Ann Arbor to earn her Ph.D. in the labs of Bill Roush (polyketide natural product total synthesis) before completing a postdoc with John Montgomery (nickel-catalyzed synthetic methodology). As a Michigan native and long suffering Detroit Lions fan, Beth has high hopes for this year's NFL season. When she's not watching football, she enjoys

As a Michigan native and long suffering Detroit Lions fan, Beth has high hopes for this year's NFL season. When she's not watching football, she enjoys watching her 12 and 16 year old daughters play lacrosse, which has become a year round commitment.

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