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Plant-based anticancer drugs - from discovery to final products**LE JEUDI 9 mars 2023 À 12 H 30****Vous pouvez maintenant assister à la conférence via Zoom en cliquant sur ce lien :****[Accéder à la vidéoconférence](#) (pour une expérience plus agréable, préférez l'installation de l'application Zoom à l'utilisation du navigateur). >> [Instructions pour la configuration de l'audio](#) <<****Abstract:**

: Plants produce myriads nitrogen-containing heterocyclic metabolites called alkaloids. These chemicals have served numerous eco-physiological functions in plants as well as medicines for humans for thousands of years, such as the anticancer agent vinblastine and the painkiller morphine. Semi-synthetic derivatives of camptothecin, an alkaloid from happy tree (*Camptotheca acuminata*), are potent anticancer agents such as topotecan (Hycamtin) and irinotecan (Camptosar). Research in Dang's lab aims at discovering and engineering enzymes from the happy tree that facilitate the production of topotecan, irinotecan and new camptothecin-derived analogues. The talk will focus on recent discoveries of new enzymes and how these allow for further understanding and harnessing of plant biosynthetic pathways and producing of plant-derived drugs.

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