SEMINAR PROGRAM

DEPARTMENT OF CHEMISTRY & BIOCHEMISTRY
UNIVERSITY OF OKLAHOMA

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We Are Pleased to Announce a Seminar
Presented by

Matthew J. Hart
University of Oklahoma Health Sciences Center

Friday, December 2, 2022
4:15 pm
National Weather Center
Room 1313

Drug and target discovery at the Oklahoma Center for Therapeutic Sciences

The Center for Therapeutic Sciences (CTS) at the University of Oklahoma Health Science Center is a trans-institutional hub for drug discovery and development. The CTS, comprised of the Laboratory for Drug and Target Discovery (DTD), the Molecular Synthesis and Analysis Core (MSAC) and the Drug and Diagnostic Development and Evaluation Core (DDDEC), aims to coordinately support a multi-entry pipeline of both target and drug discovery and drug development. The DTD is a state-of-the-art technological hub that provides lab space, cell culture facilities and a full suite of integrated detection, robotic and imaging equipment designed to enable HTS in 96, 384- or 1536 well microplate formats. DTD provides access to diverse small molecule chemical libraries as well arrayed sgRNA whole genome CRISPR libraries. The goal of the DTD is to enable the translation of basic discoveries into therapeutics by working along with investigators during each stage of the drug discovery process, including screen design, high throughput screening, candidate identification and lead validation. CTS has also added structure-guided drug identification and development to its portfolio of services available to investigators. Drug candidates are then optimized through medicinal chemistry at the MSAC and ADME and PD/PK among other parameters are defined at the DDDEC to generate intellectual property as novel therapeutics. Dr. Matthew Hart, Director of the CTS and the DTD has over 25 years of experience in drug and target discovery using high throughput screening technologies. Dr. Hart will discuss activities at the CTS and how CTS can enhance the translational directions available to OUHSC investigators.

Refreshments will be served at 4:00 pm
REMINDER ~ WEAR YOUR I.D.