

MINNESOTA LOCAL SECTION

NOVEMBER 5TH: METABOLISM AND DNA INTERACTIONS OF CARCINOGENIC TOBACCO-SPECIFIC NITROSAMINES

Speaker: Dr. Stephen Hecht, ACS Fellow

Where: Cancer and Cardiovascular Research Building (opened 2014)

Address: Biomedical Discovery District, 2231 6th St SE, Minneapolis, MN 55455

Time: Executive meeting at 5 pm, Dinner at 6 pm, Seminar at 7 pm

Cost: \$13 in advance, \$18 at the door, \$5 for students

Menu: Noodles and Company, salad, bread, dessert, pop, water

Meal Ticket: Go to the "Web Store" link to purchase meal reservations through PayPal.

Deadline: Must register by Monday, November 2nd

Abstract: Tobacco products are responsible for approximately 30% of all cancer death in the U.S., and 90% of lung cancer mortality. The carcinogenic tobacco-specific nitrosamines *N'*-nitrosonornicotine (NNN) and 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK) are present in all tobacco products and are considered to be important causative factors for tobacco-induced cancer. Metabolism of NNN and NNK in laboratory animals and humans leads to the formation of highly electrophilic diazohydroxide intermediates that react with cellular DNA to form a complex array of products which initiate the carcinogenic process. The metabolites and DNA adducts have been characterized by their spectral properties and by independent synthesis. The metabolism and DNA adduct formation of NNN and NNK are discussed in this presentation.

Information on speaker: http://www.pharmacy.umn.edu/faculty/hecht_stephen/

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Saturday, Apr 27 at 1:30 PM - 3:30 PM



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Saturday, Jun 8 at 1:30 PM - 3:30 PM



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Saturday, Jun 29 at 1:30 PM - 3:30 PM

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- [February 18th, 2019 Meal Ticket](#)

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