

# The Hilldale Lecture in the Biological Sciences

2016

## “Navigating Addiction Genetics with a Map of the Human Genome”



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3:00 p.m. | Wednesday, April 13  
John D. Wiley Conference Center (T216)  
Waisman Center  
1500 Highland Avenue

#### About the Talk:

Addictions (drug and alcohol, and also some related behaviors) are moderately heritable, but while a small number of risk genes were identified years ago based on their physiology (i.e., genes encoding alcohol-metabolizing enzymes), it is only now in the genomewide association study (GWAS) era that we have a systematic way to identify risk alleles. We have used the GWAS method to identify significant risk alleles for alcohol, cocaine, opioid, nicotine, and cannabis dependence. These will be discussed, with a focus on alcohol and cannabis dependence. Further, deep interview phenotyping can take us much further along than basic phenotyping. Several practical illustrations of this method will be presented, where genomewide-significant results were obtained that improve our understanding of the biology of substance dependence and consequent phenotypes.



◆ Free public lecture followed by a reception in the John D. Wiley conference center lounge ◆

For more information, please visit [waisman.wisc.edu/hilldale2016.htm](http://waisman.wisc.edu/hilldale2016.htm)  
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