

SIXTH ANNUAL SWARTZ SYMPOSIUM

# Neural Circuits for Decision Making and Reinforcement Learning

FRIDAY, APRIL 12, 2013  
COHEN AUDITORIUM



SWARTZ PROGRAM IN THEORETICAL NEUROBIOLOGY  
DEPARTMENT OF NEUROBIOLOGY • YALE SCHOOL OF MEDICINE

- 9:00 AM **MICHAEL FRANK** Brown University  
*Linking Levels of Analysis in Neurocomputational Models of Reinforcement Learning*
- 9:45 AM **NATHANIEL DAW** New York University  
*Multiple Decision Strategies in the Brain: Beyond Reinforcement*
- 10:50 AM **MATTHEW RUSHWORTH** University of Oxford, UK  
*A Neural Mechanism Underlying Failure of Optimal Choice With Multiple Alternatives*
- 11:35 AM **JANE TAYLOR** Yale University  
*Corticostriatal Dopamine Regulation of Flexible Decision Making in the Rat*
- 1:40 PM **OKIHIDE HIKOSAKA** National Institutes of Health  
*Differential Neuronal Encoding of Value, Salience, and Uncertainty*
- 2:25 PM **NAOSHIGE UCHIDA** Harvard University  
*Dissecting Neural Circuits for Reinforcement Learning*
- 3:30 PM **ANTONELLO BONCI** National Institutes of Health  
*Optogenetics Approaches to Studying Synaptic Plasticity and Substance Abuse*
- 4:15 PM **BITA MOGHADDAM** University of Pittsburgh  
*Teamwork Matters in the VTA: Coordinated Activity During Appetitive and Aversive Learning*

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ORGANIZED BY MICHAEL HIGLEY, M.D., PH.D. AND DAEYEOL LEE, PH.D.