Immunological Factors, Genes, and the Environment in Autism

from Research to Treatment

Saturday, June 1 8:30 a.m. - 12:30 p.m.

- **Introduction**
  Leonard Abbeduto, *director, UC Davis MIND Institute*
  Tsakopoulos-Vismara Endowed Chair, Psychiatry and Behavioral Sciences (Pre-recorded)
  Alycia Halladay, *senior director, Environmental and Clinical Sciences, Autism Speaks* (Pre-recorded)
  Steve Edelson, *executive director, Autism Research Institute*
- **Environmental Risk Factors in the Development of ASD**
  Pamela Lein, *professor, molecular biosciences, UC Davis School of Veterinary Medicine*
- **Biomarkers, Immune-Mediated Disorders and Autism**
  Judy Van de Water, *professor, internal medicine*
  Director, UC Davis Center for Children's Environmental Health
- **Current Medical Treatment Trials for Autism**
  Reymundo Lozano, *assistant clinical professor*
  Section on Genetics, UC Davis Department of Pediatrics
- **Panel Roundtable Discussion with audience Q&A**

Pamela Lein's areas of research interest include cell and molecular mechanisms of developmental neurotoxicology, gene/environment interactions that influence susceptibility to neurodevelopmental disorders, and the role of the autonomic nervous system in environmentally induced asthma and cardiovascular disease.

Judy Van de Water began her research on the immunobiology of autism when she joined the faculty of the MIND Institute in 2000. She has been continuously funded by the National Institutes of Health for more than 15 years, and currently is director of the National Institutes of Environmental Health Sciences-funded UC Davis Center for Children's Environmental Health as the principal investigator of the Immunological Susceptibility in Autism project. She also is part of a project funded by the National Institute of Mental Health to research early biomarkers in the plasma of mothers of children with autism.

Reymundo Lozano is a pediatric geneticist who has dedicated his research to better understanding the molecular basis of genetic disorders associated with intellectual disabilities and autism spectrum disorders. He specializes in the treatment of neurodevelopmental genetic syndromes. He is dedicated to finding better treatments and eventually cures for neurodevelopmental disorders. He pursues the genetic diagnosis of ASD, using cutting-edge technology, including microarrays, mitochondrial function and whole exome sequencing.

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