Molecular Characterization of 22q11.2 Deletion Syndrome (421)

A postdoctoral position is available in the laboratory of Nicolai van Oers, Ph.D. in the Department of Immunology of UT Southwestern Medical Center to study how noncoding RNAs contribute to the clinical phenotypes caused by 22q11.2 deletion syndrome. This is the most common microdeletion syndrome in humans, and results in variable clinical phenotypes that can include a thymic hypoplasia, hypoparathyroidism, cardiac defects, and schizophrenia. Our laboratory has several exciting projects related to how a microRNA, miR-205, and a long noncoding RNA (MIR205HG) affect the clinical manifestations of 22q11.2 deletion. The study includes characterization of human thymic tissue using RNA-SEQ approaches, mouse models of 22q11.2 deletion syndrome, and conditional knockout lines for miR-205 and the long noncoding RNA.

Candidates must hold a Ph.D. and/or M.D. degree. Experience in immunology and/or developmental biology leading to publication in peer-reviewed journals is recommended.

Interested individuals should send a CV, statement of interests, and a list of three references to:

Nicolai S.C. van Oers, PhD
UT Southwestern Medical Center
5323 Harry Hines Blvd.
Dallas, TX 75390-9093
Nicolai.vanoers@utsouthwestern.edu
http://www4.utsouthwestern.edu/vanoerslab/home/Welcome.html

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