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**A2.23 IMPAIRED NATURAL KILLER CELL FUNCTION
IN DOCK8 DEFICIENCY**

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^{1,2}MC Mizesko, ^{1,2}PP Banerjee, ³L Monaco-Shawver, ^{1,2}EM Mace, ³W Bernal, ⁴J Sawalle-Belohradsky, ⁴B Belohradsky, ⁴V Heinz, ⁵AF Freeman, ³KE Sullivan, ⁵SM Holland, ⁶TR Torgerson, ⁷W Al-Herz, ⁸J Chou, ^{1,2}IC Hanson, ⁴MH Albert, ⁸RS Geha, ⁴ED Renner, ^{1,2}JS Orange. ¹Baylor College of Medicine; ²Texas Children's Hospital, Houston, TX; ³Children's Hospital of Philadelphia Research Institute, Philadelphia, PA, USA; ⁴University Children's Hospital, Ludwig Maximilian University, Munich, Germany; ⁵National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, USA; ⁶University of Washington and Seattle Children's Hospital, Seattle, WA, USA; ⁷Kuwait University and Allergy and Clinical Immunology Unit, Kuwait City, Kuwait; ⁸Boston Children's Hospital, Boston, MA, USA

Introduction DOCK8 mutations are responsible for a rare autosomal recessive immunodeficiency syndrome associated with severe cutaneous viral infections, elevated IgE levels, environmental allergies, autoimmunity, and malignancy. DOCK8 activates CDC42, which is important for cell signalling and actin reorganisation. Natural killer cells play a vital role in tumour surveillance and defence against virally infected cells. NK cell function relies on the accumulation of actin at the NK cell immunologic synapse formed with target cells. Although abnormalities in T and B cell function have been described in DOCK8-deficient patients, the role of NK cells in this disease is poorly understood.



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