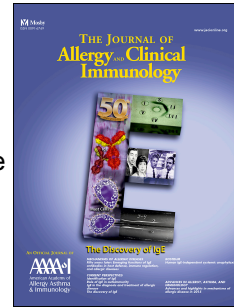


Accepted Manuscript

Reduced immunoglobulin gene diversity in patients with Cornelia de Lange syndrome

Andrea Björkman, PhD, Likun Du, PhD, Mirjam van der Burg, PhD, Valerie Cormier-Daire, MD, Guntram Borck, PhD, Juan Pié, MD, Britt-Marie Anderlid, MD, Lennart Hammarström, MD, PhD, Lena Ström, PhD, Jean-Pierre de Villartay, PhD, David Kipling, PhD, Deborah Dunn Walters, PhD, Qiang Pan-Hammarström, MD, PhD



PII: S0091-6749(17)31266-6

DOI: [10.1016/j.jaci.2017.06.043](https://doi.org/10.1016/j.jaci.2017.06.043)

Reference: YMAI 12947

To appear in: *Journal of Allergy and Clinical Immunology*

Received Date: 30 August 2016

Revised Date: 12 June 2017

Accepted Date: 20 June 2017

Please cite this article as: Björkman A, Du L, van der Burg M, Cormier-Daire V, Borck G, Pié J, Anderlid B-M, Hammarström L, Ström L, Villartay J-Pd, Kipling D, Walters DD, Pan-Hammarström Q, Reduced immunoglobulin gene diversity in patients with Cornelia de Lange syndrome, *Journal of Allergy and Clinical Immunology* (2017), doi: 10.1016/j.jaci.2017.06.043.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Reduced immunoglobulin gene diversity in patients with Cornelia de Lange syndrome

Andrea Björkman, PhD^{1#}, Likun Du, PhD^{1#}, Mirjam van der Burg, PhD², Valerie Cormier-Daire, MD³, Guntram Borck, PhD⁴, Juan Pié, MD⁵, Britt-Marie Anderlid, MD⁶, Lennart Hammarström, MD, PhD¹, Lena Ström, PhD⁷, Jean-Pierre de Villartay, PhD⁸, David Kipling, PhD⁹, Deborah Dunn Walters, PhD^{10,11}, Qiang Pan-Hammarström, MD, PhD^{1*}

1. Department of Laboratory Medicine, Karolinska Institutet, 171 77 Stockholm, Sweden
2. Department of Immunology, Erasmus MC, Rotterdam, 3015 CN, The Netherlands
3. Department of Genetics, INSERM U781, Hospital Necker, 75743 Paris, France
4. Institute of Human Genetics, University of Ulm, 89081 Ulm, Germany
5. Unit of Clinical Genetics and Functional Genomics, Departments of Pharmacology-Physiology and Pediatrics, School of Medicine, University of Zaragoza, E-50009 Zaragoza, Spain
6. Department of Clinical Genetics, Karolinska University Hospital, 171 76 Stockholm, Sweden
7. Department of Cell and Molecular Biology, Karolinska Institutet, 171 77 Stockholm, Sweden
8. Université Paris-Descartes, Faculté de Médecine René Descartes, Site Necker, Institut Fédératif de Recherche, F-71015 Paris, France
9. Division of Cancer and Genetics, School of Medicine, Cardiff University, Cardiff CF14 4XN, UK
10. Department of Immunobiology, King's College London School of Medicine, SE1 9RT London, UK
11. Faculty of Health & Medical Sciences, University of Surrey, Guildford GU2 7XH, UK

These authors contributed equally to this study.

*Corresponding author: Prof. Qiang Pan-Hammarström (qiang.pan-hammarstrom@ki.se), Div. of Clinical Immunology, F79, Department of Laboratory medicine, SE141 86 Stockholm, Sweden, Phone; + 46 8 52483592, Fax; + 46 8 52483588

This work was supported by the European Research Council, the Swedish Research Council, the Swedish Cancer Society, the Center for Innovative Medicine at Karolinska Institutet (CIMED) and the Swedish Childhood Cancer Foundation.

Download English Version:

<https://daneshyari.com/en/article/8713837>

Download Persian Version:

<https://daneshyari.com/article/8713837>

[Daneshyari.com](https://daneshyari.com)