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Author: Hende, Muriel van den
Title: Human papillomavirus clade A9 specific cellular immunity during the natural course of disease
Date: 2012-05-31
Literature


Han R, Reed CA, Cladel NM and Christensen ND. Immunization of rabbits with cottontail rabbit papillomavirus E1 and E2 genes: protective immunity induced by gene gun-mediated intracutaneous delivery but not by intramuscular injection. Vaccine 2000; 18:2937-2944.


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Palefsky JM, Gillison ML and Strickler HD. Chapter 16: HPV vaccines in immunocompromised women and men. Vaccine 2006; 24 Suppl 3:S3-140-S3/146.


Literature


<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>APC</td>
<td>antigen-presenting cell</td>
</tr>
<tr>
<td>ASCUS</td>
<td>atypical squamous cells of undetermined significance</td>
</tr>
<tr>
<td>CBA</td>
<td>cytometric bead array</td>
</tr>
<tr>
<td>CCL</td>
<td>chemokine ligands</td>
</tr>
<tr>
<td>CIN</td>
<td>cervical intraepithelial neoplasia</td>
</tr>
<tr>
<td>COPV</td>
<td>canine oral papilloma virus</td>
</tr>
<tr>
<td>CRPV</td>
<td>cotton tail rabbit papilloma virus</td>
</tr>
<tr>
<td>CTL</td>
<td>CD8+ cytotoxic T lymphocyte</td>
</tr>
<tr>
<td>DC</td>
<td>dendritic cell</td>
</tr>
<tr>
<td>DMSO</td>
<td>dimethylsulfoxide</td>
</tr>
<tr>
<td>DNA</td>
<td>deoxyribonucleic acid</td>
</tr>
<tr>
<td>DTH</td>
<td>delayed-type hypersensitivity</td>
</tr>
<tr>
<td>ELISA</td>
<td>enzyme-linked immunosorbent assay</td>
</tr>
<tr>
<td>ELISPOT</td>
<td>enzyme-linked immunospot assay</td>
</tr>
<tr>
<td>FCS</td>
<td>fetal calf serum</td>
</tr>
<tr>
<td>FR</td>
<td>frequency of responders</td>
</tr>
<tr>
<td>HBV</td>
<td>hepatitis B virus</td>
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<tr>
<td>hc2</td>
<td>hybrid capture 2 assay</td>
</tr>
<tr>
<td>HIV</td>
<td>human immunodeficiency virus</td>
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<tr>
<td>HLA</td>
<td>human leukocyte antigen</td>
</tr>
<tr>
<td>HPV</td>
<td>human papillomavirus</td>
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<tr>
<td>hrHPV</td>
<td>high-risk human papillomavirus</td>
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<tr>
<td>HSIL</td>
<td>high-grade squamous intraepithelial lesions</td>
</tr>
<tr>
<td>ICS</td>
<td>intracellular cytokine staining</td>
</tr>
<tr>
<td>IFN</td>
<td>interferon</td>
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<tr>
<td>Ig</td>
<td>immunoglobulin</td>
</tr>
<tr>
<td>IL</td>
<td>interleukin</td>
</tr>
<tr>
<td>IMDM</td>
<td>Iscove’s Modified Dulbecco’s Media</td>
</tr>
<tr>
<td>KC</td>
<td>keratinocytes</td>
</tr>
<tr>
<td>LA</td>
<td>linear array</td>
</tr>
<tr>
<td>LC</td>
<td>Langerhans cell</td>
</tr>
<tr>
<td>LEEP</td>
<td>loop electrosurgical excision procedure</td>
</tr>
<tr>
<td>LSIL</td>
<td>low-grade squamous intraepithelial lesions</td>
</tr>
<tr>
<td>LUMC</td>
<td>Leiden University Medical Center</td>
</tr>
<tr>
<td>MACS</td>
<td>magnetic cell sorting</td>
</tr>
<tr>
<td>MAdCAM</td>
<td>mucosal addressin cell adhesion molecule</td>
</tr>
<tr>
<td>MDA5</td>
<td>melanoma differentiation-associated gene 5</td>
</tr>
<tr>
<td>MRM</td>
<td>memory response mix</td>
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<tr>
<td>NF-kB</td>
<td>Nuclear Factor-KappaB</td>
</tr>
<tr>
<td>NTP</td>
<td>nucleotide triphosphate</td>
</tr>
<tr>
<td>PBMC</td>
<td>peripheral blood mononuclear cells</td>
</tr>
<tr>
<td>PCR</td>
<td>polymerase chain reaction</td>
</tr>
<tr>
<td>PHA</td>
<td>phytohemagglutinine</td>
</tr>
<tr>
<td>PKR</td>
<td>protein kinase R</td>
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<tr>
<td>PRR</td>
<td>pattern recognition receptor</td>
</tr>
<tr>
<td>RIG-I</td>
<td>retinoic-acid-inducible gene I</td>
</tr>
<tr>
<td>RUL</td>
<td>relative light unit</td>
</tr>
<tr>
<td>SI</td>
<td>stimulation index</td>
</tr>
<tr>
<td>SIL</td>
<td>squamous intraepithelial lesion</td>
</tr>
<tr>
<td>SLP</td>
<td>synthetic long overlapping peptides</td>
</tr>
<tr>
<td>TCGF</td>
<td>T cell growth factor</td>
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<tr>
<td>Th cell</td>
<td>CD4+ T helper cell</td>
</tr>
<tr>
<td>TLR</td>
<td>toll like receptor</td>
</tr>
<tr>
<td>TNF</td>
<td>tumor necrosis factor</td>
</tr>
<tr>
<td>Treg</td>
<td>CD4+ regulatory T cell</td>
</tr>
<tr>
<td>VIA</td>
<td>visual inspection with acetic acid</td>
</tr>
<tr>
<td>VIN</td>
<td>vulvar intraepithelial neoplasia</td>
</tr>
<tr>
<td>VLP</td>
<td>virus-like particles</td>
</tr>
</tbody>
</table>
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Publications

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Literature
Abbreviations
Authors and affiliations
Publications
About the author
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Muriel van den Hende was born on the 6th of July, 1976 in Leidschendam. She attended the gymnasium at the Erasmus College in Zoetermeer, which she finished in 1994.

From 1994 to 2000 she studied Medicine and Biomedical Sciences at the University of Leiden. A graduation project at the department of Ophthalmology resulted in her first immunologic research project at the Schepens Eye Research Institute, Harvard Medical School in Boston. Where she studied MHC class II expression in uveal melanoma under supervision of S.J. Ono, MD, PhD and Dr. M.J. Jager (dept. of Ophthalmology, LUMC).

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Promoveren doe je niet alleen!

Graag wil ik alle patiënten en gezonde vrijwilligers, collega’s van het lab Tumorimmunologie en Klinische Oncologie, arts-assistenten en gynaecologen in het LUMC en Bronovo, maar met name mijn vrienden, familie en in het bijzonder Arjan, Ivar en Reijer bedanken voor alle onvoorwaardelijke steun bij het schrijven en tot stand komen van dit proefschrift.