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## Deciphering diffuse large B-cell lymphoma: Molecular insights from a varied spectrum of subtypes

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# List of publications & abstracts

## Peer-reviewed publications

- 1. Blood (2019): September (PMID: 31366619)**  
*High frequency of inactivating tetraspanin CD37 mutations in diffuse large B-cell lymphoma at immune-privileged sites*  
Elfrink S, de Winde CM, van den Brand M, Berendsen M, Roemer MGM, Arnold F, Janssen L, van der Schaaf A, Jansen E, Groenen PJTA, Eijkelenboom A, Stevens WBC, Hess CJ, van Krieken H, Vermaat JSP, Cleven AHG, **de Groen RAL**, Neviani V, de Jong D, van Deventer S, Scheijen B, van Spriël AB
- 2. Haematologica (2019): December (PMID: 31699794)**  
*MYD88 in the driver's seat of B-cell lymphomagenesis: from molecular mechanisms to clinical implications*  
**De Groen RAL**, Schrader AMR, Kersten MJ, Pals ST, Vermaat JSP
- 3. Haematologica (2020): February (PMID: 31123031)**  
*MYD88 mutations identify a molecular subgroup of diffuse large B-cell lymphoma with an unfavorable prognosis*  
Vermaat JS, Somers SF, de Wreede LC, Kraan W, **de Groen RAL**, Schrader AMR, Kerver ED, Scheepstra CG, Berenschot H, Deenik W, Wegman J, Broers R, de Boer JPD, Nijland M, van Wezel T, Veelken H, Spaargaren M, Cleven AHG, Kersten MJ, Pals ST
- 4. Proceedings of the National Academy of Sciences (2020): February (PMID: 32047037)**  
*IGLV3-21\*01 is an inherited risk factor for CLL through the acquisition of a single-point mutation enabling autonomous BCR signaling*  
Maity PC, Bilal M, Koning MT, Young M, van Bergen CAM, Renna V, Nicolò A, Datta M, Gentner-Göbel E, Barendse RS, Somers SF, **de Groen RAL**, Vermaat JSP, Steinbrecher D, Scheidner C, Tausch E, Bittolo T, Bomben R, Mazzarello AN, del Poeta G, Kroes WGM, van Wezel T, Imkeller K, Busse CE, Degano M, Bakchoul T, Schulz AR, Mei H, Ghia P, Kotta K, Stamatopoulos K, Wardemann H, Zucchetto A, Chiorazzi N, Gattei V, Stilgenbauer S, Veelken H, Jumaa H
- 5. Leukemia (2020): March (PMID: 32127641)**  
*Comprehensive diagnostics of acute myeloid leukemia by whole transcriptome RNA sequencing*  
Arindrarto W, Borràs DM, **de Groen RAL**, van den Berg RR, Locher IJ, van Diessen SAME, van der Holst R, van der Meijden ED, Honders MW, de Leeuw RH, Verlaat W, Jedema I, Kroes WGM, Knijnenburg, van Wezel T, Vermaat JSP, Valk PJM, Janssen B, de Knijff P, van Bergen CAM, van den Akker EB, 't Hoen PAC, Kiełbasa SM, Laros JFJ, Griffioen M, Veelken H
- 6. Blood Advances (2021): October (PMID: 34478526)**  
*Frequent mutated B2M, EZH2, IRF8, and TNFRSF14 in primary bone diffuse large B-cell lymphoma reflect a GCB phenotype*  
**De Groen RAL**, van Eijk R, Böhringer S, van Wezel T, Raghoo R, Ruano D, Jansen PM, Briaire-de Bruijn I, de Groot FA, Kleiverda K, te Boome L, Terpstra V, Levenga H, Nicolae A, Posthuma EFM, Focke-Snieders I, Hardi L, den Hartog WCE, Bohmer LH, Hogendoorn PCW, van den Berg A, Diepstra A, Nijland M, Lugtenburg PJ, Kersten MJ, Pals ST, Veelken H, Bovée JVMG, Cleven AHG, Vermaat JSP
- 7. Leukemia & Lymphoma (2022): January (PMID: 34933651)**  
*Synchronous diffuse large B-cell lymphoma and mantle cell lymphoma: support for low-threshold biopsies and genetic testing*  
De Groot FA, de Haan LM, **de Groen RAL**, Heijmen L, van Wezel T, van Eijk R, Bohmer L, Bot F, ten Berge RL, Diepstra A, Veelken H, Cleven AHG, Jansen PM, Vermaat JSP
- 8. Virchows Archive (2022): January (PMID: 35028710)**  
*Cell-of-origin classification using the Hans and Lymph2Cx algorithms in primary cutaneous large B-cell lymphomas*



- Schrader AMR, [de Groen RAL](#), Willemze R, Jansen PM, Quint KD, van Wezel T, van Eijk R, Ruano D, Tensen CP, Hauben E, Woei-A-Jin FJSH, Busschots AM, van den Berg A, Diepstra A, Vermeer MH, Vermaat JSP
9. **Cancers (2022): April (PMID: 35454765)**  
*Biological and Clinical Implications of Gene-Expression Profiling in Diffuse Large B-Cell Lymphoma: A Proposal for a Targeted BLYM-777 Consortium Panel as Part of a Multilayered Analytical Approach*  
De Groot FA, [de Groen RAL](#), van den Berg A, Jansen PM, Lam KH, Mutsaers PGNJ, van Noesel CJM, Chamuleau MED, Stevens WBC, Plaça JR, Mous R, Kersten MJ, van der Poel MWM, Tousseyn T, Woei-A-Jin FJSH, Diepstra A, Nijland M, Vermaat JSP
10. **Cancers (2022): October (PMID: 36291936)**  
*Genetic Stability of Driver Alterations in Primary Cutaneous Diffuse Large B-Cell Lymphoma, Leg Type and Their Relapses: A Rationale for the Use of Molecular-Based Methods for More Effective Disease Monitoring*  
Schrader AMR, [de Groen RAL](#), Willemze R, Jansen PM, Quint KD, Cleven AHG, van Wezel T, van Eijk R, Ruano D, Veelken H, Tensen CP, Neelis KJ, Daniels LA, Hauben E, Woei-A-Jin FJSH, Busschots AM, Vermeer MH, Vermaat JSP
11. **Blood Advances (2023): October (PMID: 37552109)**  
*A significant proportion of classic Hodgkin lymphoma recurrences represents clonally unrelated second primary lymphoma*  
Van Bladel DAG, Stevens WBC, Kroeze LI, [de Groen RAL](#), de Groot FA, van der Last-Kempkes JLM, Berendsen MR, Rijntjes J, Luijckx JACW, Bonzheim I, van der Spek E, Plattel WJ, Pruijt JFM, de Jonge-Peters SDPWW, Velders GA, Lensen C, van Bladel ER, Federmann B, Hoevenaars BM, Pastorczak A, van der Werff ten Bosch J, Vermaat JSP, Nooijen PTGA, Hebeda KM, Fend F, Diepstra A, van Krieken JHJM, Groenen PJTA, van den Brand M, Scheijen B
12. **Blood (2023): November (PMID: 37595284)**  
*BRAFV600E is associated with higher incidence of second cancers in adults with Langerhans cell histiocytosis*  
Acosta-Medina AA, Kemps PG, Zondag TCE, Abeykoon JP, Borst J, Steenwijk EC, Feijen EAM, Teepen JC, Bennani NN, Schram SM, Shah MV, Davidge-Pitts C, Koster MJ, Ryu JH, Vassallo R, Tobin WO, Young JR, Dasari S, Rech K, Ravindran A, Cleven AHG, Verdijk RM, van Noesel CJM, Balgobind BV, Bouma GJ, Saeed P, Brammer JAM, [de Groen RAL](#), Vermaat JSP, van de Sande MAJ, Smit EF, Langerak AW, van Wezel T, Tonino SH, van den Bos C, van Laar Jam, Go RS, Goyal G, van Halteren AGS
13. **Haematologica (2024): March (PMID: 37439337)**  
*Autonomous B-cell receptor signaling and genetic aberrations in chronic lymphocytic leukemia-phenotype monoclonal B lymphocytosis in siblings of patients with chronic lymphocytic leukemia*  
Quinten E, Sepúlveda-Yáñez JH, Koning MT, Eken JA, Pfeifer D, Nteleah V, [de Groen RAL](#), Alvarez Saravia D, Knijnenburg J, Stuivenberg-Bleijswijk HE, Pantic M, Agathangelidis A, Keppler-Hafkemeyer A, van Bergen CAM, Uribe-Paredes R, Stamatoopoulos K, Vermaat JSP, Zirik K, Navarrete MA, Jumaa H, Veelken H
14. **Virchows Archive (2024): October (PMID: 37851120)**  
*Real-world routine diagnostic molecular analysis for TP53 mutational status is recommended over P53 immunohistochemistry in B-cell lymphomas*  
De Haan LM, [de Groen RAL](#), de Groot FA, Noordenbos T, van Wezel T, van Eijk R, Ruano D, Diepstra A, Koens L, Nicolae-Cristea A, den Hartog WCE, Terpstra V, Ahsmann E, Dekker TJA, Sijs-Szabo A, Veelken H, Cleven AHG, Jansen PM, Vermaat JSP
15. **Blood Advances (2024): April (PMID: 38324724)**  
*Sinonasal DLBCL: molecular profiling identifies subtypes with distinctive prognoses and targetable genetic features*

- René Gerhard Eriksen P, de Groot FA, Clasen-Linde E, de Nully Brown P, **de Groen RAL**, Melchior L, Maier AD, Minderman M, Vermaat JSP, von Buchwald C, Pals ST, Heegaard S.
- 16. International Journal of Molecular Sciences (2024): March (PMID: 38542066)**  
*The genetic profile of large B-cell lymphomas presenting in the ocular adnexa*  
 Vest ST, René Gerhard Eriksen P, de Groot FA, **de Groen RAL**, Kleij AHR, Knudsen Kirkegaard M, Kamper P, Kristian Rasmussen P, von Buchwald C, de Nully Brown P, Folke Kiilgaard J, Vermaat JSP, Heegaard S
- 17. Journal of Experimental Medicine (2024): May (PMID: 38512136)**  
*Antigen-Independent, Autonomous B-Cell Receptor Signaling Drives Activated B-cell DLBCL*  
 Eken JA, Koning MT, Kupcova K, Sepúlveda-Yáñez JH, **de Groen RAL**, Quinten E, Janssen J, van Bergen CAM, Vermaat JSP, Cleven AHG, Navarrete M, Ylstra B, de Jong D, Havranek O, Jumaa H, Veelken H
- 18. European Journal of Cancer (2024): December (PMID: 39427440)**  
*Clinical Characteristics and Survival Outcomes of Patients with Primary Central Nervous System Lymphoma Treated with High-Dose Methotrexate-Based Polychemotherapy and Consolidation Therapies*  
 De Groot FA, Dekker TJA, Doorduyn JK, Böhringer S, Brink M, **de Groen RAL**, de Haan LM, Woei-A-Jin FJSH, Noordenbos T, Sijs-Szabo A, Oudshoorn MA, Lam KH, Diepstra A, te Boome LCJ, Terpstra V, Bohmer LH, Nicolae A, Posthuma EFM, Koens L, Durian MF, Stavast J, van der Poel MWM, Hamid MA, Stevens WBC, van Rooij SLM, Oostvogels RS, Mühlebner A, Neelis KJ, van den Brand M, Tousseyn T, Dierickx D, de Weerd O, Beeker A, Jansen PM, Kersten MJ, Zijlstra JM, Chamuleau MED, Veelken H, Bromberg JCE, Nijland M, Vermaat JSP
- 19. Genome Biology (2024): November (PMID: 39501370)**  
*CaClust: Linking Genotype to Transcriptional Heterogeneity of Follicular Lymphoma Using BCR and Exomic Variants*  
 Oksza-Orzechowski K, Quinten E, Shafighi S, Kiełbasa SM, van Kessel HW, **de Groen RAL**, Vermaat JSP, Sepúlveda Yáñez JH, Navarrete MA, Veelken H, van Bergen CAM, Szczurek E
- 20. Blood (2025): March (PMID: 40048229)**  
*Therapy for MYD88 L265P DLBCL*  
 Vermaat JSP, **de Groen RAL**
- 21. Blood Cancer Journal (2025): April (PMID: 40301298)**  
*Superior Survival in Diffuse Large B-Cell Lymphoma of the Bone with Immune Rich Tumor Microenvironment*  
**De Groen RAL**, de Groot FA, Böhringer S, Kret EJ, de Haan LM, Noordenbos T, Blommers S, Jansen REW, van Wezel T, van Eijk R, Raghoo R, Ruano D, Boome LT, Terpstra V, Levenga H, Ahsmann E, Posthuma EFM, Focke-Snieders I, Hardi L, den Hartog WCE, van den Berg A, Mutsaers PGNJ, Lam KH, van der Poel MWM, Abdul Hamid M, Woei-A-Jin FJSH, Janssens A, Tousseyn T, Bovée JVMG, Koens L, Diepstra A, Cleven AHG, Kersten MJ, Jansen PM, Veelken H, Nijland M, Dekker TJA, Vermaat JSP
- 22. Haematologica (2025): May (PMID: 40438976)**  
*MATRix and HD-MTX/IFO/DEP treatment and autologous stem cell transplantation in secondary central nervous system lymphoma: a Dutch retrospective analysis*  
 De Groot FA, Stedema FG, Kret EJ, de Haan LM, Jansen PM, Böhringer S, Diepstra A, van der Poel MWM, Hamis MA, te Boome LCJ, Terpstra V, Brink M, Veelken H, **de Groen RAL**, Dekker TJA, Nijland M, Vermaat JSP
- 23. Haematologica (2025): May (PMID: 40438989)**



*T-cell and antibody responses in immunocompromised patients with hematologic malignancies indicate strong potential of SARS-CoV-2 mRNA vaccines*  
Potheast CR, Hofsink Q, Haggenburt S, Dijkland RC, van de Meent M, van Dijk K, Bhoekhan MS, Haverkate NJE, van Meerloo J, Falkenburg JHF, **de Groen RAL**, Broers AEC, van Doesum JA, van Binnendijk RS, den Hartog G, Lissenberg-Witte BI, Kater AP, Smits GP, Wouters D, van Leeuwen EMM, Bontkes HJ, Kootstra NA, Vogels-Nooijen S, van Baarle D, de Vries RD, van Meerten T, Mutsaers PGNJ, Goorhuis A, Nijhof IS, Hazenberg MD, Heemskerk MHM, Rutten CE; COBRA KAI study team

**24. American Journal of Surgical Pathology (2025): June (PMID: 40511879)**

*IgM Immunohistochemical Expression is a Potential Risk Factor for Extracutaneous Dissemination in Patients with Primary Cutaneous Follicle Center Lymphoma*

Schrader AMR, **de Groen RAL**, Willemze R, Jansen PM, Quint KD, van Wezel T, van Eijk R, Ruano D, Tensen CP, Diepstra A, van den Berg A, Koens L, Kakiailatu N, Vermeer MH, Vermaat JSP

**25. European Journal of Cancer (2025): October (PMID: 40961813)**

*Non-inferior outcome of abbreviated R-CHOP in patients with stage I primary testicular lymphoma*

Al-Sarayfi D, Bult JAA, **de Groen RAL**, de Groot FA, Vermaat JSP, Issa D, Diepstra A, Huls G, Bellido M, Plattel W, Brink M, Nijland M



## Abstracts – congress

### EORTC Cutaneous Lymphoma Task Force Meeting 2019 abstracts

- *022 – Molecular analysis of primary cutaneous diffuse large B-cell lymphoma, leg type at diagnosis and relapse*  
Schrader AMR, **de Groen RAL**, Willemze R, Jansen PM, Quint KD, Cleven AHG, van Wezel T, van Eijk R, Ruano D, Tensen CP, Hauben E, Woei-A-Jin FJSH, Busschots AM, Vermeer MH, Vermaat JSP

### European Hematology Association 2019 abstracts

- *PF509 – Molecular analysis of primary cutaneous diffuse large B-cell lymphoma leg type at diagnosis and relapse – Implications for targeted therapies*  
Schrader AMR, **de Groen RAL**, Willemze R, Jansen PM, Quint KD, Cleven AHG, van Wezel T, van Eijk R, Ruano D, Tensen CP, Hauben E, Woei-A-Jin FJSH, Busschots AM, Vermeer MH, Vermaat JSP
- *PF519 – Molecular profiling of primary bone lymphoma's reveals frequent mutations in EZH2 and other epigenetic genes: Implications for targeted treatment*  
**De Groen RAL**, Ibramoglu MS, van Eijk RA, van Wezel T, Raghoo R, de Winter ER, Schrader AMR, Jansen PM, Briaire-de Bruijn I, Kleiverda K, Vlasveld L, Posthuma EFM, van den Berg A, Diepstra A, Lugtenburg PJ, Bovée JV, Cleven AHG, Vermaat JSP

### American Society of Hematology 2019 abstracts

- *High Frequencies of Mutated EZH2 and IRF8 and Other Epigenetic Genes in Primary Bone Lymphomas are Indicative of GCB-Phenotype*  
**De Groen RAL**, van Eijk R, van Wezel T, Raghoo R, Schrader AMR, Jansen PM, Briaire-de Bruijn I, Kleiverda K, Vlasveld T, Terpstra V, Levenga H, Nicolae A, Posthuma WF, Focke-Snieders I, Hardi L, den Hartog WCE, van den Berg A, Diepstra A, Lugtenburg P, Kersten MJ, Pals ST, Veelken H, Bovée J, Cleven AHG, Vermaat JSP
- *High-Throughput BCR Sequencing and Single-Cell Transcriptomics Reveal Distinct Transcriptional Profiles Associated with Subclonal Evolution of Follicular Lymphoma*  
Van Bergen CAM, Koning MT, Quinten E, Mykowiecka A, Sepulveda J, Monajemi R, **de Groen RAL**, Vermaat JSP, Kloet SL, Kietbasa SM, Navarrete MA, Górecki P, Veelken H

### EORTC Cutaneous Lymphoma Group 20-21 meeting abstracts

- *Bio-02-09 – Clues for disease progression at time of diagnosis in patients with primary cutaneous follicle center lymphoma*  
Schrader AMR, **de Groen RAL**, Willemze R, Jansen PM, Quint KD, van Wezel T, van Eijk R, Ruano D, Diepstra A, van den Berg A, Kakaiailatu N, Vermeer MH, Vermaat JSP

### Dutch Hematology Congress 2022 abstract

- *Primary bone diffuse large B-cell lymphoma is characterized by frequent germinal center B-cell associated in B2M, TNFRSF14, EZH2, and IRF8, reflecting a favorable prognosis*  
**De Groen RAL**, van Eijk R, Böhringer S, van Wezel T, Raghoo R, Ruano D, Jansen PM, Briaire-de Bruijn I, de Groot FA, Kleiverda K, te Boome L, Terpstra V, Levenga H, Nicolae A, Posthuma EFM, Focke-Snieders I, Hardi L, den Hartog WCE, Bohmer LH, Hogendoorn PC, van den Berg A, Diepstra A, Nijland M, Lugtenburg PJ, Kersten MJ, Pals ST, Veelken H, Bovée J, Vermaat JSP

### American Society of Hematology 2022 abstracts

- *Autonomous BCR Signalling and Genetic Aberrations in CLL-Phenotype Monoclonal B Lymphocytosis in Siblings of CLL Patients*  
Sepulveda Yañez J, Quinten E, Koning MT, Eken JA, Pfeifer D, **de Groen RAL**, Alvarez Saravia D, Agathangelidis A, van Bergen CAM, Stamatopoulos K, Vermaat JSP, Zirlik K, Navarrete M, Jumaa H, Veelken H
- *Special Anatomical Subtypes of Diffuse Large B-Cell Lymphoma Have Distinct Tumor Microenvironments*



- Noordenbos T, de Groot FA, **de Groen RAL**, de Haan LM, Krog RT, Sijs-Szabo A, Griffioen M, de Groot R, Heemskerk MHM, IJsselsteijn ME, Terpstra V, Nijland M, Mutseers P, Chamuleau MED, Kersten MJ, Diepstra A, Bovée J, Jansen PM, de Miranda NF, Vermaat JSP
- *Antigen-Independent, Autonomous B-Cell Receptor Signaling in Diffuse Large B-Cell Lymphoma*  
Eken JA, Koning MT, Sepulveda Yañez J, van Bergen CAM, Quinten E, Kupcova K, Havranek O, **de Groen RAL**, Vermaat JSP, de Jong D, Kluin P, Cleven AHG, Jumaa H, Veelken H
  - *Consolidation Improves Survival in Primary Central Nervous System Lymphoma Without Preference for Type of High-Dose Methotrexate-Based Induction Treatment Regimen*  
De Groot, FA, Doorduijn JK, Brink M, **de Groen RAL**, de Haan LM, Noordenbos T, Sijs-Szabo A, Lam KH, Diepstra A, te Boome L, Terpstra V, Böhmer LH, Zijlstra JM, Koens L, Durian M, Oudshoorn MA, Veelken H, van der Poel MWM, Abdul Hamid M, Stevens WBC, van Rooij JLM, Oostvogels R, Neelis KJ, van den Brand M, Woei-A-Jin FJSH, Tousseyn T, Dierickx D, Jansen PM, Kersten MJ, Bromberg J, Nijland M, Vermaat JSP
  - *Polyostotic DLBCL is Characterized by a NF-κB Pathway Affecting Molecular Profile and Superior Survival*  
**De Groen RAL**, de Groot FA, de Haan LM, van Wezel T, Noordenbos T, Böhringer S, van Eijk R, Raghoob R, Ruano D, Sijs-Szabo A, te Boome L, Terpstra V, Levenga H, Nicolae A, Posthuma WF, Focke-Snieders I, Hardi L, den Hartog WCE, Böhmer LH, van den Berg A, Mutseers P, van der Poel MWM, Abdul Hamid M, Woei-A-Jin FJSH, Janssens A, Tousseyn T, Bovée J, Veelken H, Pals ST, Diepstra A, Nijland M, Kersten MJ, Jansen PM, Cleven AHG, Vermaat JSP
  - *Molecular Diagnostics for TP53 is Recommended in B-Cell Lymphomas*  
De Haan LM, **de Groen RAL**, de Groot FA, Noordenbos T, van Wezel T, van Eijk R, Ruano D, Diepstra A, Koens L, Sijs-Szabo A, Veelken H, Cleven AHG, Jansen PM, Vermaat JSP

#### Dutch Hematology Congress 2024 abstracts

- *Taking flight with BLYM-777: Navigating gene-expression signatures of DLBCL*  
**De Groen RAL**, de Groot, FA, Kret EJ, de Haan LM, Noordenbos T, Blommers S, Jansen REW, Posthuma EFM, Seitz A, Mastik MF, de Jonge AV, Kersten MJ, Mutis T, Jansen PM, Diepstra A, Chamuleau MED, van den Berg A, Dekker TJA, Nijland M, Vermaat JSP
- *Uncharted territory: Gene expression and mutational profiles of testicular diffuse large B-cell lymphoma*  
Dekker TJA, **de Groen RAL**, de Groot FA, Kret EJ, de Haan LM, Al-Sarayfi D, Blommers S, Jansen REW, Hardi L, den Hartog WCE, Terpstra V, te Boome L, Ahsmann E, Levenga H, Focke-Snieders I, Posthuma EFM, Koens L, Kersten MJ, Diepstra A, Jansen PM, Nijland M, Vermaat JSP

#### European Hematology Congress 2024 abstracts

- *P1228 – Specific Immune-Molecular Profiles Distinguish Testicular Diffuse Large B-cell Lymphoma from Nodal-DLBCL-ABC*  
**De Groen RAL**, de Groot FA, de Haan LM, Kret EJ, Blommers S, Jansen REW, van Wezel T, Noordenbos T, Böhringer S, Al-Sarayfi D, van Eijk R, Ruano D, Schuijt M, te Boome L, Terpstra V, Levenga H, Ahsmann E, Posthuma EFM, Focke-Snieders I, Hardi L, den Hartog WCE, van den Berg A, Veelken H, Diepstra A, Kersten MJ, Jansen PM, Nijland M, Dekker TJA, Vermaat JSP
- *P1215 – Prognostication in Secondary CNS Lymphoma Patients Treated with MATRIX or an Alternative (Korfel et al. NCT01148173) Induction Regimen And Autologous Stem Cell Transplantation Consolidation*  
De Groot FA, Stedema F, Kret EJ, de Haan LM, Jansen PM, Böhringer S, Diepstra A, van der Poel MWM, Doorduijn JK, Bromberg J, Lam KH, te Boome L, Terpstra V, Veelken H, **de Groen RAL**, Dekker TJA, Nijland M, Vermaat JSP

#### American Society of Hematology 2024 abstracts

- *4380 – Immunosuppressed Tumor Microenvironment in MYC-Rearranged High-Grade B-Cell Lymphomas Compared to Diffuse Large B-Cell Lymphomas, Not Otherwise Specified*



De Jonge A, Noordenbos T, **de Groen RAL**, de Groot FA, de Haan LM, Jansen PM, Fu L, de Heer K, Klerk C, Sandberg Y, Fijnheer R, Mutsaers PGNJ, Beeker A, Böhmer LH, Wang S, Strobbe L, Boersma R, Oosterveld M, Koene HR, de Miranda N, van den Berg A, Nijland M, Roemer MGM, Mutis T, Chamuleau MED, Vermaat JSP

- 2984 – *Unveiling Transformation Mechanisms of Nodal Marginal Zone Lymphoma Using a Multi-Omics Approach*

Bult JAA, Zhong Y, de Groot FA, **de Groen RAL**, Veltmaat N, Al-Sarayfi D, Plattel W, Kleuiver JL, van den Berg A, Rosati S, Diepstra A, Vermaat JSP, Nijland M

- 1619 – *Oncogenic CARD11 Mutations and Autonomous BCR Signaling Act as Functionally Equivalent Alternative Drivers in ABC-DLBCL*

Eken J, Havenaar FRM, Quinten E, **de Groen RAL**, Sepulveda-Yanez J, Vermaat JSP, van Bergen CAM, Veelken H

#### **Dutch Hematology Congress 2025 abstracts**

- *Clinical correlation of Immune-Molecular Profiles in Primary Central Nervous System Lymphoma*  
De Groot, FA, **de Groen RAL**, Dekker TJA, Blommers S, Jansen REW, Kret EJ, Doorduijn JK, Brink M, de Haan LM, Noordenbos T, Sijs-Szabo A, Lam KH, Diepstra A, te Boome L, Terpstra V, Bohmer LH, Zijlstra JH, Koens L, Durian M, Stavast J, Oudshoorn MA, Veelken H, van der Poel MWM, Abdul Hamid M, Stevens WBC, van Rooij JL, Oostvogels R, Neelis KJ, van den Brand M, Woei-A-Jin FJSH, Tousseyn T, Dierickx, Kersten MJ, Bromberg J, Jansen PM, Nijland M, Vermaat JSP

- *Molecular Characterization of Gastrointestinal Diffuse Large B-Cell Lymphoma*  
Jansen REW, Dekker TJ, **de Groen RAL**, de Groot FA, Kret EJ, de Haan LM, Blommers S, Hardi L, den Hartog WCE, Terpstra V, te Boome L, Ahsmann E, Levenga H, Focke-Snieders I, Posthuma EFM, Koens L, Kersten MJ, Jansen PM, Vermaat JSP

#### **American Society of Hematology 2025 abstracts**

- 3555 – *A unified spatial & molecular atlas of anatomically restricted large B-cell lymphomas defines stereotyped cell ecosystems*

Noordenbos T, **de Groen RAL**, de Groot FA, Dekker T, de Haan LM, Kret EJ, Blommers S, Jansen PM, Shi J, Shi S, de Miranda NF, Diehn M, Shahrokh Esfahani M, Alizadeh AA, Vermaat JSP





## Curriculum Vitae

Born on October 2, 1991, in Roosendaal and Nispen and raised in Kruisland, Ruben attended Zonneberg (Catholic primary school) in Kruisland. He then pursued 2 years of atheneum and 3 years of havo at Markland College in Oudenbosch. He obtained a Bachelor of Applied Science in Biology and Applied Medical Laboratory Technology & Forensic Laboratory Research at Avans University of Applied Sciences in Breda (2009-2014). His first internship was at the University of Western Australia (August 2012 - January 2013) under the supervision of Guan Tay, focusing on research into loop-mediated isothermal amplification (LAMP) for sex identification of embryos from cows, sheep, and pigs. His second internship was at the laboratory for diagnostic genome analysis of the Leiden University Medical Center (LUMC; February 2014 - August 2014) under the supervision of Claudia Ruivenkamp, researching three genes for indications of intellectual disabilities via Sanger sequencing. After completing his bachelor's degree, Ruben continued at LUMC with the (pre-)Master of Science in Biomedical Sciences from 2015 to 2018. During this period, he conducted a 'junior research project I' at the hematology department (February 2017 - July 2017) under the supervision of Joost Vermaat. Investigating the transformation of follicular lymphoma to an aggressive diffuse large B-cell lymphoma and the influence of this transformation on the B-cell receptor. And a 'junior research project II' at the pathology department (September 2017 - April 2018) under the supervision of Arjen Cleven, where he developed a 'targeted next-generation sequencing panel' (tNGS) to map mutations in lymphomas for routine diagnostics. In July 2018, he began his PhD at the Hematology Department of LUMC, supervised by Joost Vermaat and Hendrik Veelken. Initially, he performed literature research on T-cell lymphomas to develop another tNGS panel, this time for T-cell lymphomas. Due to certain circumstances, the project was put on hold, shifting the focus of the PhD-project to interpreting sequencing data on bone lymphomas. This was followed by research into skin and testis lymphomas using sequencing and gene-expression data. The results from these extranodal DLBCL are described within this thesis. During his PhD, Ruben followed several Dutch, European, and American Hematology conferences, attained his eBROK certificate and followed the following courses: Basic Methods and Reasoning in Biostatistics, Communication in Science for PhDs, Practical Linux, and Code Management with Git. Since February 2025, he has been employed in Joost Vermaat's group as a postdoc, continuing the research with a focus on bioinformatics.





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