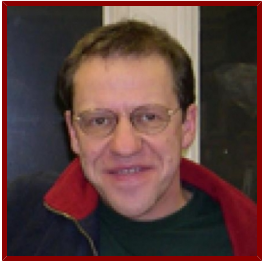


# Stanford

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## Matt van de Rijn

Sabine Kohler, MD, Professor of Pathology

### CLINICAL OFFICE (PRIMARY)

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### Bio

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#### CLINICAL FOCUS

- Sarcoma
- Anatomic and Clinical Pathology

#### ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Pathology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

#### PROFESSIONAL EDUCATION

- Fellowship: Stanford University Pathology Fellowships CA
- Residency: Stanford University Pathology Residency (1992) CA
- Board Certification: Anatomic Pathology, American Board of Pathology (1993)
- Medical Education: Universiteit Van Amsterdam (1986) Netherlands

#### LINKS

- van de Rijn Lab: <http://med.stanford.edu/labs/vanderijn/index.html>

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our research focuses on molecular analysis of human soft tissue tumors (sarcomas) with an emphasis on leiomyosarcoma and desmoid tumors. In addition we study the role of macrophages in range of malignant tumors.

## Publications

### PUBLICATIONS

- **Spatially Segregated Macrophage Populations Predict Distinct Outcomes In Colon Cancer.** *Cancer discovery*  
Matusiak, M., Hickey, J. W., van IJzendoorn, D. G., Lu, G., Kidzinski, L., Zhu, S., Colburg, D. R., Luca, B., Phillips, D. J., Brubaker, S. W., Charville, G. W., Shen, J., Loh, et al  
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- **Sarcoma microenvironment cell states and ecosystems are associated with prognosis and predict response to immunotherapy.** *Nature cancer*  
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- **A spatially resolved timeline of the human maternal-fetal interface.** *Nature*  
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- **Monitoring sarcoma response to immune checkpoint inhibition and local cryotherapy with circulating tumor DNA analysis.** *Clinical cancer research : an official journal of the American Association for Cancer Research*  
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- **Brief Report: High Levels of CD47 Expression in Thymic Epithelial Tumors.** *JTO clinical and research reports*  
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- **CD142 Identifies Neoplastic Desmoid Tumor Cells, Uncovering Interactions Between Neoplastic and Stromal Cells That Drive Proliferation.** *Cancer research communications*  
Al-Jazrawe, M., Xu, S., Poon, R., Wei, Q., Przybyl, J., Varma, S., van de Rijn, M., Alman, B. A.  
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- **A multiplexed in vivo approach to identify driver genes in small cell lung cancer.** *Cell reports*  
Lee, M. C., Cai, H., Murray, C. W., Li, C., Shue, Y. T., Andrejka, L., He, A. L., Holzem, A. M., Drainas, A. P., Ko, J. H., Coles, G. L., Kong, C., Zhu, et al  
2023; 42 (1): 111990
- **A spatial map of human macrophage niches reveals context-dependent macrophage functions in colon and breast cancer.** *Research square*  
Matusiak, M., Hickey, J. W., Luca, B., Lu, G., Kidzi#ski, L., Zhu, S., Colburg, D. R., Phillips, D. J., Brubaker, S. W., Charville, G. W., Shen, J., Nolan, G. P., Newman, et al  
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- **Best clinical management of tenosynovial giant cell tumour (TGCT): A consensus paper from the community of experts.** *Cancer treatment reviews*  
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- **Long-term Outcomes of Diffuse or Recurrent Tenosynovial Giant Cell Tumor Treated with Postoperative External Beam Radiation Therapy.** *Practical radiation oncology*  
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- **Author Correction: The immunoregulatory landscape of human tuberculosis granulomas.** *Nature immunology*  
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- **The immunoregulatory landscape of human tuberculosis granulomas.** *Nature immunology*  
McCaffrey, E. F., Donato, M., Keren, L., Chen, Z., Delmastro, A., Fitzpatrick, M. B., Gupta, S., Greenwald, N. F., Baranski, A., Graf, W., Kumar, R., Bosse, M., Fullaway, et al  
2022
- **CRISPR-SID: Identifying EZH2 as a druggable target for desmoid tumors via in vivo dependency mapping.** *Proceedings of the National Academy of Sciences of the United States of America*  
Naert, T., Tulkens, D., Van Nieuwenhuysen, T., Przybyl, J., Demuyneck, S., van de Rijn, M., Al-Jazrawe, M., Alman, B. A., Coucke, P. J., De Leeneer, K., Vanhove, C., Savvides, S. N., Creytens, et al  
2021; 118 (47)
- **Prognostic relevance of the hexosamine biosynthesis pathway activation in leiomyosarcoma.** *NPJ genomic medicine*  
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- **Atlas of clinically distinct cell states and ecosystems across human solid tumors.** *Cell*  
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- **Detection of SS18-SSX1/2 fusion transcripts in circulating tumor cells of patients with synovial sarcoma.** *Diagnostic pathology*  
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- **Detection of SS18-SSX1/2 fusion transcripts in circulating tumor cells of patients with synovial sarcoma** *DIAGNOSTIC PATHOLOGY*  
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- **Genomic aberrations in cell cycle genes predict progression of KIT-mutant gastrointestinal stromal tumors (GISTs)** *CLINICAL SARCOMA RESEARCH*  
Heinrich, M. C., Patterson, J., Beadling, C., Wang, Y., Debiec-Rychter, M., Dewaele, B., Corless, C. L., Duensing, A., Raut, C. P., Rubin, B., Ordog, T., van de Rijn, M., Call, et al  
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- **Systematic Analysis of GATA3 Expression in 530 Primary Mesenchymal Neoplasms**  
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- **Indolent in situ High-Grade B-cell lymphoma with a MYC Translocation and Mutations Identified by Next Generation Sequencing**  
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- **Detection of Premalignant Gastrointestinal Lesions Using Surface-Enhanced Resonance Raman Scattering-Nanoparticle Endoscopy.** *ACS nano*  
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- **The Outcome of Patients With Localized Undifferentiated Pleomorphic Sarcoma of the Lower Extremity Treated at Stanford University** *AMERICAN JOURNAL OF CLINICAL ONCOLOGY-CANCER CLINICAL TRIALS*  
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- **Detection of Premalignant Gastrointestinal Lesions Using Surface-Enhanced Resonance Raman Scattering-Nanoparticle Endoscopy** *ACS NANO*  
Harmsen, S., Rogalla, S., Huang, R., Spaliviero, M., Neuschmelting, V., Hayakawa, Y., Lee, Y., Tailor, Y., Toledo-Crow, R., Kang, J., Samii, J. M., Karabeber, H., Davis, et al  
2019; 13 (2): 1354–64
- **Genomic aberrations in cell cycle genes predict progression of KIT-mutant gastrointestinal stromal tumors (GISTs).** *Clinical sarcoma research*  
Heinrich, M. C., Patterson, J., Beadling, C., Wang, Y., Debiec-Rychter, M., Dewaele, B., Corless, C. L., Duensing, A., Raut, C. P., Rubin, B., Ordog, T., van de Rijn, M., Call, et al  
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- **A clinico-genomic analysis of soft tissue sarcoma patients reveals CDKN2A deletion as a biomarker for poor prognosis.** *Clinical sarcoma research*  
Bui, N. Q., Przybyl, J., Trabucco, S. E., Frampton, G., Hastie, T., van de Rijn, M., Ganjoo, K. N.  
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- **PAX7 expression in sarcomas bearing the EWSR1-NFATC2 translocation** *MODERN PATHOLOGY*  
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- **The Outcome of Patients With Localized Undifferentiated Pleomorphic Sarcoma of the Lower Extremity Treated at Stanford University.** *American journal of clinical oncology*  
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- **Discovery and characterization of recurrent, targetable ALK fusions in leiomyosarcoma.** *Molecular cancer research : MCR*  
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- **Immune checkpoint blockade as a potential therapeutic strategy for undifferentiated malignancies.** *Human pathology*  
Devereaux, K. A., Charu, V., Zhao, S., Charville, G. W., Bangs, C. D., van de Rijn, M., Cherry, A. M., Natkunam, Y.  
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- **Immunohistochemistry for PAX7 is a useful confirmatory marker for Ewing sarcoma in decalcified bone marrow core biopsy specimens** *VIRCHOWS ARCHIV*  
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2018; 473 (6): 765–69
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- **Vangl2 regulates cancer stem cell self-renewal and growth in rhabdomyosarcoma**  
Hayes, M., McCarthy, K., Jin, A., Iyer, S., Garcia, S., Oliveira, M. L., Sindiri, S., Gryder, B., Motala, Z., Nielsen, G., Borg, J., van de Rijn, M., Malkin, et al  
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- **Combination Approach for Detecting Different Types of Alterations in Circulating Tumor DNA in Leiomyosarcoma** *CLINICAL CANCER RESEARCH*  
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- **GFPT2-expressing cancer-associated fibroblasts mediate metabolic reprogramming in human lung adenocarcinoma.** *Cancer research*  
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- **Gene expression profiling of low-grade endometrial stromal sarcoma indicates fusion protein-mediated activation of the Wnt signaling pathway** *GYNECOLOGIC ONCOLOGY*  
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- **Vangl2/RhoA Signaling Pathway Regulates Stem Cell Self-Renewal Programs and Growth in Rhabdomyosarcoma** *CELL STEM CELL*  
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- **Combination approach for detecting different types of alterations in circulating tumor DNA in leiomyosarcoma.** *Clinical cancer research : an official journal of the American Association for Cancer Research*  
Przybyl, J. n., Chabon, J. J., Spans, L. n., Ganjoo, K. n., Vennam, S. n., Newman, A. M., Forgó, E. n., Varma, S. n., Zhu, S. n., Debiec-Rychter, M. n., Alizadeh, A. A., Diehn, M. n., van de Rijn, et al  
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- **Dystrophin is a tumor suppressor in peripheral nerve sheath tumors.**  
Schaefer, I., Dufresne, A., Bahri, N., de Rooij, M. J., Yanofsky, S. M., Wang, Y., Raut, C. P., Baker, L. H., Marino-Enriquez, A., van de Rijn, M., Fletcher, J. A.  
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- **Comprehensive and Integrated Genomic Characterization of Adult Soft Tissue Sarcomas** *CELL*  
Lazar, A. J., McLellan, M. D., Bailey, M. H., Miller, C. A., Appelbaum, E. L., Cordes, M. G., Fronick, C. C., Fulton, L. A., Fulton, R. S., Mardis, E. R., Schmidt, H. K., Wong, W., Wilson, et al  
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- **Macrophage infiltration and genetic landscape of undifferentiated uterine sarcomas.** *JCI insight*  
Przybyl, J., Kowalewska, M., Quattrone, A., Dewaele, B., Vanspauwen, V., Varma, S., Vennam, S., Newman, A. M., Swierniak, M., Bakula-Zalewska, E., Siedlecki, J. A., Bidzinski, M., Cools, et al  
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- **MAX inactivation is an early event in GIST development that regulates p16 and cell proliferation** *NATURE COMMUNICATIONS*  
Schaefer, I., Wang, Y., Liang, C., Bahri, N., Quattrone, A., Doyle, L., Marino-Enriquez, A., Lauria, A., Zhu, M., Debiec-Rychter, M., Grunewald, S., Hechtman, J. F., Dufresne, et al  
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- **Mapping a multiplexed zoo of mRNA expression** *DEVELOPMENT*  
Choi, H. M., Calvert, C. R., Husain, N., Huss, D., Barsi, J. C., Deverman, B. E., Hunter, R. C., Kato, M., Lee, S. M., Abelin, A. C., Rosenthal, A. Z., Akbari, O. S., Li, et al  
2016; 143 (19): 3632-3637
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2016; 126 (7): 2610-2620
- **Loss of H3K27 tri-methylation is a diagnostic marker for malignant peripheral nerve sheath tumors and an indicator for an inferior survival** *MODERN PATHOLOGY*  
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