

Stanford



Matt van de Rijn

Sabine Kohler, MD, Professor of Pathology

CLINICAL OFFICE (PRIMARY)

- **Department of Pathology**

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Bio

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

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
2024
- **Sarcoma microenvironment cell states and ecosystems are associated with prognosis and predict response to immunotherapy.** *Nature cancer*
Subramanian, A., Nemat-Gorgani, N., Ellis-Caleo, T. J., van IJzendoorn, D. G., Sears, T. J., Soman, A., Luca, B. A., Zhou, M. Y., Bradic, M., Torres, I. A., Oladipo, E., New, C., Kenney, et al
2024
- **A spatially resolved timeline of the human maternal-fetal interface.** *Nature*
Greenbaum, S., Averbukh, I., Soon, E., Rizzuto, G., Baranski, A., Greenwald, N. F., Kagel, A., Bosse, M., Jaswa, E. G., Khair, Z., Kwok, S., Warshawsky, S., Piyadasa, et al
2023; 619 (7970): 595-605
- **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*
Bui, N. Q., Nemat-Gorgani, N., Subramanian, A., Torres, I. A., Lohman, M., Sears, T. J., van de Rijn, M., Charville, G. W., Becker, H. C., Wang, D. S., Hwang, G. L., Ganjoo, K. N., Moding, et al
2023
- **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.
2023; 3 (4): 697-708
- **Brief Report: High Levels of CD47 Expression in Thymic Epithelial Tumors.** *JTO clinical and research reports*
Sun, T. Y., Nguyen, B., Chen, S. B., Natkunam, Y., Padda, S., van de Rijn, M., West, R., Neal, J. W., Wakelee, H., Riess, J. W.
2023; 4 (4): 100498
- **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., Kidziński, L., Zhu, S., Colburg, D. R., Phillips, D. J., Brubaker, S. W., Charville, G. W., Shen, J., Nolan, G. P., Newman, et al
2023
- **Best clinical management of tenosynovial giant cell tumour (TGCT): A consensus paper from the community of experts.** *Cancer treatment reviews*
Silvia, S., Hans Roland, D., Inga-Marie, S., Klaus, W., Rick, H., Annalisa, T., Augusto, C., Jyoti, B., Giacomo Giulio, B., Nicholas, B., Jean-Yves, B., Kjetil, B., Javier-Martin, et al
2022; 112: 102491
- **Long-term Outcomes of Diffuse or Recurrent Tenosynovial Giant Cell Tumor Treated with Postoperative External Beam Radiation Therapy.** *Practical radiation oncology*
Baniel, C., Yoo, C. H., Jiang, A., von Eyben, R., Mohler, D. G., Ganjoo, K., Bui, N., Donaldson, S. S., Million, L., Rijn, M. v., Moon Oh, J., Hiniker, S. M.
2022
- **Targeting hexosamine biosynthesis pathway for the treatment of desmoid tumors**
Przybyl, J., Tolwani, A., Varma, S., van de Rijn, M.
AMER ASSOC CANCER RESEARCH.2022
- **Interactions in CSF1-driven Tenosynovial Giant Cell Tumors.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
van IJzendoorn, D. G., Matusiak, M., Charville, G. W., Spierenburg, G., Varma, S., Colburg, D. R., van de Sande, M. A., van Langevelde, K., Mohler, D. G., Ganjoo, K. N., Bui, N. Q., Avedian, R. S., Bovee, et al

2022

• **Identifying and characterizing EZH2 as a druggable dependency factor for desmoid tumors in a genetic *Xenopus tropicalis* model for Gardner's Syndrome**

Naert, T., Tulkens, D., Van Nieuwenhuysen, T., Przybyl, J., Demuynck, S., Al-Jazrawe, M., Van De Rijn, M., Alman, B., De Leenheer, K., Coucke, P., Creytens, D., Vleminckx, K.
SPRINGERNATURE.2022: 71-72

• **Reproducible, high-dimensional imaging in archival human tissue by multiplexed ion beam imaging by time-of-flight (MIBI-TOF). *Laboratory investigation; a journal of technical methods and pathology***

Liu, C. C., Bosse, M., Kong, A., Kagel, A., Kinders, R., Hewitt, S. M., Varma, S., van de Rijn, M., Nowak, S. H., Bendall, S. C., Angelo, M.
2022

• **Author Correction: 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

• **Detection of MDM2 amplification by shallow whole genome sequencing of cell-free DNA of patients with dedifferentiated liposarcoma. *PloS one***

Przybyl, J., Spans, L., Ganjoo, K., Bui, N., Mohler, D., Norton, J., Poulsides, G., Debiec-Rychter, M., van de Rijn, M.
2022; 17 (1): e0262272

• **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 invivo dependency mapping. *Proceedings of the National Academy of Sciences of the United States of America***

Naert, T., Tulkens, D., Van Nieuwenhuysen, T., Przybyl, J., Demuynck, 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***

Tolwani, A., Matusiak, M., Bui, N., Forgo, E., Varma, S., Baratto, L., Iagaru, A., Lazar, A. J., van de Rijn, M., Przybyl, J.
2021; 6 (1): 30

• **Relationships between highly recurrent tumor suppressor alterations in 489 leiomyosarcomas. *Cancer***

Schaefer, I., Lundberg, M. Z., Demicco, E. G., Przybyl, J., Matusiak, M., Chibon, F., Ingram, D. R., Hornick, J. L., Wang, W., Bauer, S., Baker, L. H., Lazar, A. J., van de Rijn, et al
2021

• **HAND1 and BARX1 act as transcriptional and anatomic determinants of malignancy in gastrointestinal stromal tumor. *Clinical cancer research : an official journal of the American Association for Cancer Research***

Hemming, M. L., Coy, S. n., Lin, J. R., Andersen, J. L., Przybyl, J. n., Mazzola, E. n., Abdelhamid Ahmed, A. H., van de Rijn, M. n., Sorger, P. K., Armstrong, S. A., Demetri, G. D., Santagata, S. n.
2021

• **Atlas of clinically distinct cell states and ecosystems across human solid tumors. *Cell***

Luca, B. A., Steen, C. B., Matusiak, M., Azizi, A., Varma, S., Zhu, C., Przybyl, J., Espín-Pérez, A., Diehn, M., Alizadeh, A. A., van de Rijn, M., Gentles, A. J., Newman, et al
2021

• **Atlas of clinically-distinct cell states and cellular ecosystems across human solid tumors**

Luca, B. A., Steen, C. B., Azizi, A., Matusiak, M., Przybyl, J., Neishaboori, N., Perez, A., Diehn, M., Alizadeh, A. A., van de Rijn, M., Gentles, A. J., Newman, A. M.
AMER ASSOC CANCER RESEARCH.2020

• **A human lung tumor microenvironment interactome identifies clinically relevant cell-type cross-talk. *Genome biology***

Gentles, A. J., Hui, A. B., Feng, W. n., Azizi, A. n., Nair, R. V., Bouchard, G. n., Knowles, D. A., Yu, A. n., Jeong, Y. n., Bejnood, A. n., Forgó, E. n., Varma, S. n., Xu, et al
2020; 21 (1): 107

- **Detection of Circulating Tumor DNA in Patients With Uterine Leiomyomas** *JCO PRECISION ONCOLOGY*
Przybyl, J., Spans, L., Lum, D. A., Zhu, S., Vennam, S., Forgo, E., Varma, S., Ganjoo, K., Hastie, T., Bowen, R., Debiec-Rychter, M., van de Rijn, M.
2019; 3
- **Detection of Circulating Tumor DNA in Patients With Uterine Leiomyomas.** *JCO precision oncology*
Przybyl, J., Spans, L., Lum, D. A., Zhu, S., Vennam, S., Forgó, E., Varma, S., Ganjoo, K., Hastie, T., Bowen, R., Debiec-Rychter, M., van de Rijn, M.
2019; 3
- **Detection of SS18-SSX1/2 fusion transcripts in circulating tumor cells of patients with synovial sarcoma.** *Diagnostic pathology*
Przybyl, J., van de Rijn, M., Rutkowski, P.
2019; 14 (1): 24
- **Detection of SS18-SSX1/2 fusion transcripts in circulating tumor cells of patients with synovial sarcoma** *DIAGNOSTIC PATHOLOGY*
Przybyl, J., van de Rijn, M., Rutkowski, P.
2019; 14
- **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
2019; 9
- **Discovery and Characterization of Recurrent, Targetable ALK Fusions in Leiomyosarcoma** *MOLECULAR CANCER RESEARCH*
Davis, L. E., Nusser, K. D., Przybyl, J., Pittsenbarger, J., Hofmann, N. E., Varma, S., Vennam, S., Debiec-Rychter, M., van de Rijn, M., Davare, M. A.
2019; 17 (3): 676–85
- **Systematic Analysis of GATA3 Expression in 530 Primary Mesenchymal Neoplasms**
Wei, C., Charville, G., Bean, G., Troxell, M., Allison, K., Van de Rijn, M., West, R.
NATURE PUBLISHING GROUP.2019
- **Systematic Analysis of GATA3 Expression in 530 Primary Mesenchymal Neoplasms**
Wei, C., Charville, G., Bean, G., Troxell, M., Allison, K., Van de Rijn, M., West, R.
NATURE PUBLISHING GROUP.2019
- **Indolent in situ High-Grade B-cell lymphoma with a MYC Translocation and Mutations Identified by Next Generation Sequencing**
Kumar, J., Wu, S., Butzmann, A., Lau, J., Zehnder, J., Warnke, R., Nybakken, G., Van De Rijn, M., Ohgami, R.
NATURE PUBLISHING GROUP.2019
- **Indolent in situ High-Grade B-cell lymphoma with a MYC Translocation and Mutations Identified by Next Generation Sequencing**
Kumar, J., Wu, S., Butzmann, A., Lau, J., Zehnder, J., Warnke, R., Nybakken, G., Van de Rijn, M., Ohgami, R.
NATURE PUBLISHING GROUP.2019
- **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. W., Samii, J. M., Karabeber, H., Davis, et al
2019; 13 (2): 1354–64
- **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*
Kamat, N. V., Million, L., Yao, D., Donaldson, S. S., Mohler, D. G., van de Rijn, M., Avedian, R. S., Kapp, D. S., Ganjoo, K. N.
2019; 42 (2): 166–71
- **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
- **PAX7 expression in sarcomas bearing the EWSR1-NFATC2 translocation** *MODERN PATHOLOGY*
Charville, G. W., Wang, W., Ingram, D. R., Roy, A., Thomas, D., Patel, R. M., Hornick, J. L., van de Rijn, M., Lazar, A. J.
2019; 32 (1): 154–56

- **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.
2019; 9: 12
- **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
2019; 9: 3
- **The Outcome of Patients With Localized Undifferentiated Pleomorphic Sarcoma of the Lower Extremity Treated at Stanford University.** *American journal of clinical oncology*
Kamat, N. V., Million, L., Yao, D., Donaldson, S. S., Mohler, D. G., van de Rijn, M., Avedian, R. S., Kapp, D. S., Ganjoo, K. N.
2018
- **Discovery and characterization of recurrent, targetable ALK fusions in leiomyosarcoma.** *Molecular cancer research : MCR*
Davis, L. E., Nusser, K. D., Przybyl, J., Pittsenbarger, J., Hofmann, N. E., Varma, S., Vennam, S., Debiec-Rychter, M., van de Rijn, M., Davare, M. A.
2018
- **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.
2018; 82: 39–45
- **Immunohistochemistry for PAX7 is a useful confirmatory marker for Ewing sarcoma in decalcified bone marrow core biopsy specimens** *VIRCHOWS ARCHIV*
Fernandez-Pol, S., van de Rijn, M., Natkunam, Y., Charville, G. W.
2018; 473 (6): 765–69
- **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.
2018; 82: 39–45
- **GFPT2-Expressing Cancer-Associated Fibroblasts Mediate Metabolic Reprogramming in Human Lung Adenocarcinoma** *CANCER RESEARCH*
Zhang, W., Bouchard, G., Yu, A., Shafiq, M., Jamali, M., Shrager, J. B., Ayers, K., Bakr, S., Gentles, A. J., Diehn, M., Quon, A., West, R. B., Nair, et al
2018; 78 (13): 3445–57
- **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
AMER ASSOC CANCER RESEARCH.2018
- **Identifying dynamic EMT states and constructing a proteomic EMT landscape of lung cancer using single cell multidimensional analysis**
Karacosta, L. G., Anchang, B., Kimmey, S., van de Rijn, M., Shrager, J. B., Bendall, S. C., Plevritis, S. K.
AMER ASSOC CANCER RESEARCH.2018
- **Tissue-specific expression of the low-affinity IgG receptor, Fc gamma RIIB, on human Mast cells** *FRONTIERS IN IMMUNOLOGY*
Burton, O. T., Epp, A., Fanny, M. E., Miller, S. J., Stranks, A. J., Teague, J. E., Clark, R. A., van de Rijn, M., Oettgen, H. C.
2018; 9: 1244
- **Combination Approach for Detecting Different Types of Alterations in Circulating Tumor DNA in Leiomyosarcoma** *CLINICAL CANCER RESEARCH*
Przybyl, J., Chabon, J. J., Spans, L., Ganjoo, K. N., Vennam, S., Newman, A. M., Forgo, E., Varma, S., Zhu, S., Debiec-Rychter, M., Alizadeh, A. A., Diehn, M., van de Rijn, et al
2018; 24 (11): 2688–99
- **GFPT2-expressing cancer-associated fibroblasts mediate metabolic reprogramming in human lung adenocarcinoma.** *Cancer research*
Zhang, W., Bouchard, G., Yu, A., Shafiq, M., Jamali, M., Shrager, J. B., Ayers, K., Bakr, S., Gentles, A. J., Diehn, M., Quon, A., West, R. B., Nair, et al
2018
- **Gene expression profiling of low-grade endometrial stromal sarcoma indicates fusion protein-mediated activation of the Wnt signaling pathway** *GYNECOLOGIC ONCOLOGY*
Przybyl, J., Kidzinski, L., Hastie, T., Debiec-Rychter, M., Nusse, R., van de Rijn, M.
2018; 149 (2): 388–93

- **Vangl2/RhoA Signaling Pathway Regulates Stem Cell Self-Renewal Programs and Growth in Rhabdomyosarcoma** *CELL STEM CELL*
Hayes, M. N., McCarthy, K., Jin, A., Oliveira, M. L., Iyer, S., Garcia, S. P., Sindiri, S., Gryder, B., Motala, Z., Nielsen, G., Borg, J., De Rijn, M., Malkin, et al
2018; 22 (3): 414-+
- **Immunohistochemistry for PAX7 is a useful confirmatory marker for Ewing sarcoma in decalcified bone marrow core biopsy specimens.** *Virchows Archiv : an international journal of pathology*
Fernandez-Pol, S. n., van de Rijn, M. n., Natkunam, Y. n., Charville, G. W.
2018
- **PAX7 expression in sarcomas bearing the EWSR1-NFATC2 translocation.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Charville, G. W., Wang, W. L., Ingram, D. R., Roy, A. n., Thomas, D. n., Patel, R. M., Hornick, J. L., van de Rijn, M. n., Lazar, A. J.
2018
- **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., Forgo, E. n., Varma, S. n., Zhu, S. n., Debiec-Rychter, M. n., Alizadeh, A. A., Diehn, M. n., van de Rijn, et al
2018
- **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.
AMER ASSOC CANCER RESEARCH.2018: 62-63
- **Circulating tumor DNA levels correlate with response to treatment in LMS patients**
Przybyl, J., Chabon, J. J., Spans, L., Ganjoo, K., Vennam, S., Newman, A. M., Forgo, E., Varma, S., Zhu, S., Debiec-Rychter, M., Alizadeh, A., Diehn, M., van de Rijn, et al
AMER ASSOC CANCER RESEARCH.2018: 38-39
- **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
2017; 171 (4): 950-+
- **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
2017; 2 (11)
- **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
2017; 8: 14674
- **EWSR1-FLI1 Regulates PAX7 Expression in Ewing Sarcoma**
Charville, G., Wang, W., Hornick, J. L., van de Rijn, M., Lazar, A. J.
NATURE PUBLISHING GROUP.2017: 14A
- **Immune Check-Point Blockade as a Potential Therapeutic Strategy for Undifferentiated Malignancies**
Devereaux, K., Charville, G., Zhao, S., Cherry, A., van de Rijn, M., Natkunam, Y.
NATURE PUBLISHING GROUP.2017: 456A
- **EWSR1 fusion proteins mediate PAX7 expression in Ewing sarcoma.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
Charville, G. W., Wang, W. L., Ingram, D. R., Roy, A. n., Thomas, D. n., Patel, R. M., Hornick, J. L., van de Rijn, M. n., Lazar, A. J.
2017
- **PAX7 Expression in Rhabdomyosarcoma, Related Soft Tissue Tumors, and Small Round Blue Cell Neoplasms.** *American journal of surgical pathology*
Charville, G. W., Varma, S., Forgo, E., Dumont, S. N., Zambrano, E., Trent, J. C., Lazar, A. J., van de Rijn, M.
2016; 40 (10): 1305-1315

● **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

● **CD47-blocking immunotherapies stimulate macrophage-mediated destruction of small-cell lung cancer JOURNAL OF CLINICAL INVESTIGATION**

Weiskopf, K., Jahchan, N. S., Schnorr, P. J., Cristea, S., Ring, A. M., Maute, R. L., Volkmer, A. K., Volkmer, J., Liu, J., Lim, J. S., Yang, D., Seitz, G., Thuyen Nguyen, et al
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**

Cleven, A. H., Al Sanna, G. A., Briare-de Bruijn, I., Ingram, D. R., van de Rijn, M., Rubin, B. P., de Vries, M. W., Watson, K. L., Torres, K. E., Wang, W., van Duinen, S. G., Hogendoorn, P. C., Lazar, et al
2016; 29 (6): 582-590

● **Loss of H3K27 tri-methylation is a diagnostic marker for malignant peripheral nerve sheath tumors and an indicator for an inferior survival. Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc**

Cleven, A. H., Sanna, G. A., Briare-de Bruijn, I., Ingram, D. R., van de Rijn, M., Rubin, B. P., de Vries, M. W., Watson, K. L., Torres, K. E., Wang, W. L., van Duinen, S. G., Hogendoorn, P. C., Lazar, et al
2016; 29 (6): 582-90

● **CDX2 as a Prognostic Biomarker in Stage II and Stage III Colon Cancer NEW ENGLAND JOURNAL OF MEDICINE**

Dalerba, P., Sahoo, D., Paik, S., Guo, X., Yothers, G., Song, N., Wilcox-Fogel, N., Forgo, E., Rajendran, P. S., Miranda, S. P., Hisamori, S., Hutchison, J., Kalisky, et al
2016; 374 (3): 211-222

● **CDX2 as a Prognostic Biomarker in Stage II and Stage III Colon Cancer. The New England journal of medicine**

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