



James L. Zehnder, M.D.

Professor of Pathology (Research) and of Medicine (Hematology)

CLINICAL OFFICE (PRIMARY)

- Pathology Department

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ACADEMIC CONTACT INFORMATION

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Bio

BIO

Dr. Jim Zehnder is board-certified in Internal Medicine and Hematology. He completed Internal Medicine residency, was Chief Resident in Medicine, completed Hematology and Oncology fellowships and a K08 sponsored research postdoctoral fellowship - all at Stanford. He is the founding director of the Stanford Molecular Pathology Laboratory (in 1995). His current roles are Director of Clinical Pathology, Director of the Molecular Pathology Fellowship, Director of the Coagulation Laboratory, attending pathologist on the molecular pathology service and the attending physician on the clinical hematology service. His main research interests include molecular pathogenesis of acquired cytopenias, genetic testing for inherited non-malignant hematologic disorders, next-generation sequencing approaches to T and B cell clonality testing, somatic mutations in cancer and assessment of minimal residual disease in cancer patients. His clinical interests include diagnosis and treatment of disorders of thrombosis and hemostasis.

CLINICAL FOCUS

- Cancer > Hematology
- Hematology
- Pathology and Laboratory Medicine
- Anatomic and Clinical Pathology

ACADEMIC APPOINTMENTS

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

ADMINISTRATIVE APPOINTMENTS

- Director, Clinical Pathology, Department of Pathology, Stanford University School of Medicine, (2016- present)
- Director, Coagulation and Molecular Pathology Laboratories, Stanford Hospital, (1995- present)
- Attending Physician, Hematology Service, Stanford Hospital, (1995- present)

PROFESSIONAL EDUCATION

- Medical Education: Tufts Medical Center (1984) MA
- Fellowship: Stanford University Hematology and Oncology Fellowship (1993) CA
- Residency: Stanford University Internal Medicine Residency (1988) CA
- Board Certification: Hematology, American Board of Internal Medicine (2016)
- Board Certification, American Board of Internal Medicine , Hematology (2016)
- Board Certification: Internal Medicine, American Board of Internal Medicine (1987)
- MD, Tufts Univ. School of Medicine , Medicine (1984)
- BA, UC Santa Cruz , Chemistry (1979)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. James Zehnder is board-certified in Internal Medicine and Hematology. He completed Internal Medicine residency, was Chief Resident in Medicine, completed Hematology and Oncology fellowships and a K08 sponsored research postdoctoral fellowship - all at Stanford. He is the founding director of the Stanford Molecular Pathology Laboratory (in 1995). His current roles are Director of Clinical Pathology, Director of the Molecular Pathology Fellowship, Director of the Coagulation Laboratory, attending pathologist on the molecular pathology service and the attending physician on the clinical hematology service. His main research and clinical interests include molecular pathogenesis of acquired cytopenias, genetic testing for inherited non-malignant hematologic disorders, next-generation sequencing approaches to T and B cell clonality testing, somatic mutations in cancer and assessment of minimal residual disease in cancer patients.

CLINICAL TRIALS

- A Study to Test the Safety of the Investigational Drug Selitrectinib in Children and Adults That May Treat Cancer, Not Recruiting
- Evaluation of Pathwork Tissue of Origin (TOO) Test for Human Malignancies, Not Recruiting
- Genome-Wide Gene Expression Profiling of Patients With ITP Receiving Thrombopoietin Mimetics, Not Recruiting
- Integrated Whole-Genome Analysis of Hematologic Disorders, Not Recruiting
- Bone Marrow Grafting for Leukemia and Lymphoma, Not Specified

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Saion Chatterjee

Publications

PUBLICATIONS

- **Novel single cell and bulk NGS assays for improved assessment of MRD (measurable residual disease) and clonal dynamics in acute myeloid leukemia (AML).**

- Zhou, C., Gunaratne, R., Yang, E., Agoglia, R., Jangam, D., Tiwari, C., Tanaka, K., Chiang, T., Ho, C., Lu, S., Zehnder, J. L., Zhang, B., Stehr, et al
AMER ASSOC CANCER RESEARCH.2026
- **Implementation of a Fully Automated ADAMTS13 Activity Assay Utilizing Fluorescence Resonance Energy Transfer (FRET) with a Practical Approach to Address High Background Fluorescence Interference**
Jin, J., Yang, L. M., Zehnder, J. L.
WILEY.2026
 - **Assessing the Clinical Performance of a Presymptomatic Acute Graft-Versus-Host Disease Biomarker Test in Hematopoietic Stem Cell Transplant Recipients.** *The journal of applied laboratory medicine*
Wang, L., Pulgrossi, R. C., Anderson, J., Garcia, A., Meyer, E. H., Zehnder, J. L., Pinsky, B. A.
2026
 - **Clinically Relevant Somatic Copy Number Variation and Gene Fusion Detection via Targeted NGS: A Diagnostic Tool for Hematolymphoid Malignancies**
Yang, S., Huh, H., Zehnder, J.
ELSEVIER SCIENCE INC.2025
 - **Implementation of a fully automated ADAMTS13 activity assay utilizing fluorescence resonance energy transfer with a practical approach to address high background fluorescence interference.** *American journal of clinical pathology*
Jin, J., Yang, L. M., Okwan, D., Zehnder, J. L.
2025
 - **T-Cell Transcriptomic Signatures in Adults with Primary Untreated Immune Thrombocytopenia Segregate By Age, Revealing Distinct Druggable Pathways**
Shao, L., Boothby, A., Bailey, S., Chauhan, A., Boechenek, M., Gernsheimer, T. B., Semple, J. W., Zehnder, J. L., Rao, V., Ping, J., Stroncek, D. F., Stolla, M., Panch, et al
ELSEVIER.2024: 124-125
 - **Correlation of Low Variant Allele Frequency<i> STAT3</i> Gain-of-Function Mutations and T-Cell Clonality with Cyclic Thrombocytopenia**
Zhang, H., Stehr, H., Bona, R., Connors, J. M., Shomali, W., Gotlib, J., Bussel, J. B., Zehnder, J. L.
ELSEVIER.2024: 1175-1176
 - **Discordant High Activated Partial Thromboplastin Time Relative to Anti-Xa Values in Hospitalized Patients is an Independent Risk Factor for Increased 30-day Mortality.** *Seminars in thrombosis and hemostasis*
Jin, J., Gummidipundi, S., Hsu, J., Sharifi, H., Boothroyd, D., Krishnan, A., Zehnder, J. L.
2024
 - **p53 immunohistochemistry as an ancillary tool for rapid assessment of residual disease in TP53-mutated acute myeloid leukemia and myelodysplastic syndromes.** *American journal of clinical pathology*
Brar, N., Lawrence, L., Fung, E., Zehnder, J. L., Greenberg, P. L., Mannis, G. N., Zhang, T. Y., Gratzinger, D., Oak, J., Silva, O., Kurzer, J., Tan, B., Menke, et al
2024
 - **Impact of C-reactive Protein on Anticoagulation Monitoring in Extracorporeal Membrane Oxygenation.** *Journal of cardiothoracic and vascular anesthesia*
Madhok, J., O'Donnell, C., Jin, J., Owyang, C. G., Weimer, J. M., Pashun, R. A., Shudo, Y., McNulty, J., Chadwick, B., Ruoss, S. J., Rao, V. K., Zehnder, J. L., Hsu, et al
2024
 - **The highs and lows of cyclic thrombocytopenia.** *British journal of haematology*
Zhang, H., Villar-Prados, A., Bussel, J. B., Zehnder, J. L.
2023
 - **Diagnostic impact of RNA-based next-generation sequencing fusion panel for solid tumors: A single-institution experience.** *American journal of clinical pathology*
Fei, F., Kunder, C. A., Ho, C., Zehnder, J. L., Tomasello, G., Fung, E., Suarez, C. J.
2023
 - **Molecular Diagnosis and Treatment Guidance of <i>EGFR-</i>Positive Metastatic Non-Small-Cell Lung Adenocarcinoma from Pleural Effusion Cell-Free DNA Targeted Sequencing**
Gu, W., Yang, S., Wiredja, D., Jhun, I., Chiang, T., Ho, C., Lowe, A., Zhu, Y., Roy, M., Tung, J., Zehnder, J.

ELSEVIER SCIENCE INC.2023: S133

- **The role of genetics in refractory immune thrombocytopenia.** *British journal of haematology*
Zehnder, J. L., Bussel, J. B., Cooper, N.
2023; 203 (1): 62-64
- **Study of β 1-transferrin and β 2-transferrin using microprobe-capture in-emitter elution and high-resolution mass spectrometry.** *Scientific reports*
Luo, R. Y., Pfaffroth, C., Yang, S., Hoang, K., Yeung, P. S., Zehnder, J. L., Shi, R. Z.
2023; 13 (1): 14974
- **HOW LOW IS LOW?-A RETROSPECTIVE CHART REVIEW TO EVALUATE THE CLINICAL RELEVANCE OF FACTOR FXIII DEFICIENCY**
Jin, J., Okwan, D., Zehnder, J.
WILEY.2023: 54
- **THE UTILIZATION OF A CHEMILUMINESCENCE-BASED IMMUNOASSAY [HEMOSIL HIT-AB_(PF4-H)] IN DIAGNOSIS OF HEPARIN-INDUCED THROMBOCYTOPENIA**
Jin, J., Zehnder, J. L.
WILEY.2023: 53
- **Genomic landscape of T-large granular lymphocyte leukemia and chronic lymphoproliferative disorder of NK cells: a single institution experience.** *Leukemia & lymphoma*
Fei, F., Stehr, H., Zehnder, J. L.
2023: 1-9
- **Enkurin: A novel marker for myeloproliferative neoplasms from platelet, megakaryocyte, and whole blood specimens.** *Blood advances*
Mosale Seetharam, S., Liu, Y., Wu, J., Fechter, L., Murugesan, K., Maecker, H. T., Gotlib, J., Zehnder, J. L., Paulmurugan, R., Krishnan, A.
2023
- **Smoking status in acute myeloid leukemia is associated with worse overall survival and independent of prior non-hematopoietic malignancies, cytogenetic abnormalities, and WHO category.** *Human pathology*
Kumar, J., Patel, S., Chang, A., Mukherjee, S., Small, C., Gollapudi, S., Butzmann, A., Jangam, D., Weinberg, O. K., George, T. I., Zehnder, J. L., Ohgami, R. S.
2023
- **Minimal/measurable residual disease (MRD) monitoring in patients with lymphoid neoplasms by high-throughput sequencing of the T-cell receptor.** *The Journal of molecular diagnostics : JMD*
Tung, J. K., Jangam, D., Ho, C. C., Fung, E., Khodadoust, M. S., Kim, Y. H., Zehnder, J. L., Stehr, H., Zhang, B. M.
2023
- **Genomic Landscape of T-Large Granular Lymphocyte Leukemia and Chronic Lymphoproliferative Disorder of NK Cells: A Single Institution Experience**
Fei, F., Stehr, H., Zehnder, J.
ELSEVIER SCIENCE INC.2023: S1131-S1133
- **The role of CD8+ T cell clones in immune thrombocytopenia.** *Blood*
Malik, A., Sayed, A. A., Han, P., Tan, M. M., Watt, E., Constantinescu-Bercu, A., Cocker, A. T., Khoder, A., Saputit, R. C., Thorley, E. V., Teklemichael, A., Ding, Y., Hart, et al
2023
- **LIGHT-CHAIN PARAPROTEINS IN COAGULATION ASSAYS AND THEIR CLINICAL ASSOCIATIONS: A REPORT OF 6 CASES**
Jin, J., Baker, S., Zehnder, J.
WILEY.2023: E51-E52
- **Enkurin: A novel marker for myeloproliferative neoplasms from platelet, megakaryocyte, and whole blood specimens.** *bioRxiv : the preprint server for biology*
Seetharam, S. M., Liu, Y., Wu, J., Fechter, L., Murugesan, K., Maecker, H., Gotlib, J., Zehnder, J., Paulmurugan, R., Krishnan, A.
2023
- **IMPACT OF C-REACTIVE PROTEIN ON ANTICOAGULATION MONITORING IN EXTRACORPOREAL MEMBRANE OXYGENATION**
Madhok, J., O'Donnell, C., Jin, J., Owyang, C., Weimer, J., Pashun, R., Shudo, Y., McNulty, J., Chadwick, B., Ruoss, S., Rao, V., Zehnder, J., Hsu, et al

LIPPINCOTT WILLIAMS & WILKINS.2023: 54

- **IMPACT OF C-REACTIVE PROTEIN ON ANTICOAGULATION MONITORING IN EXTRACORPOREAL MEMBRANE OXYGENATION**
Madhok, J., O'Donnell, C., Jin, J., Owyang, C., Weimer, J., Pashun, R., Shudo, Y., McNulty, J., Chadwick, B., Ruoss, S., Rao, V., Zehnder, J., Hsu, et al
LIPPINCOTT WILLIAMS & WILKINS.2023: 54
- **3117- ENKURIN: A NOVEL MARKER FOR MYELOPROLIFERATIVE NEOPLASMS FROM VALIDATED PLATELET, MEGAKARYOCYTE, AND WHOLE BLOOD SPECIMENS (vol 111, pg S103, 2022) EXPERIMENTAL HEMATOLOGY**
Seetharam, S., Liu, Y., Wu, J., Fechter, L., Murugesan, K., Gotlib, J., Zehnder, J., Paulmurugan, R., Krishnan, A.
2023; 117: 69
- **Balancing the Qi in ITP. *Blood***
Zehnder, J. L.
2022; 140 (26): 2768-2770
- **Prevalence, mutational spectrum and clinical implications of clonal hematopoiesis of indeterminate potential in plasma cell dyscrasias. *Seminars in oncology***
Testa, S., Kumar, J., Goodell, A. J., Zehnder, J. L., Alexander, K. M., Sidana, S., Arai, S., Witteles, R. M., Liedtke, M.
2022
- **Accurate Identification of Hemoglobin Variants By Top-Down Protein Analysis Using Capillary Electrophoresis-HighResolution Mass Spectrometry**
Luo, R., Wong, C., Xia, J., Glader, B., Shi, R., Zehnder, J. L.
AMER SOC HEMATOLOGY.2022: 5384-5386
- **Accurate Detection of Clinically Actionable Copy Number Variants in Diverse Hematological Neoplasms By Routine Targeted Sequencing: A Comparative Performance Study**
Mosquera, A., Hosoya, H., Jin, M. C., Esfahani, M., Schroers-Martin, J., Sworder, B., Liu, C., Spiteri, E., Natkunam, Y., Zehnder, J. L., Stehr, H., Kurtz, D. M., Alizadeh, et al
AMER SOC HEMATOLOGY.2022: 10712-10713
- **CD8(+) TEMRA Clones Cause Platelet Lysis in Immune Thrombocytopenia**
Malik, A., Tan, M. M. H., Sayed, A. A., Han, P., Watt, E., Constantinescu-Bercu, A., Khoder, A., Cocker, A. T. H., Thorley, E., Teklemichael, A., Ding, Y., Saputil, R. C., Hart, et al
AMER SOC HEMATOLOGY.2022: 2209-2210
- **Neutral-Coating Capillary Electrophoresis Coupled with High-Resolution Mass Spectrometry for Top-Down Identification of Hemoglobin Variants. *Clinical chemistry***
Luo, R. Y., Wong, C., Xia, J. Q., Glader, B. E., Shi, R., Zehnder, J. L.
2022
- **Rapid Detection of Pathogenic UBA1 Variants by MassARRAY in Patients with VEXAS Syndrome**
Chen, S., Lawrence, L., Ho, C., Le, J., Libiran, P., Zehnder, J., Suarez, C.
ELSEVIER SCIENCE INC.2022: S35
- **Multiplex Epstein-Barr virus BALF2 genotyping detects high-risk variants in plasma for population screening of nasopharyngeal carcinoma. *Molecular cancer***
Miller, J. A., Sahoo, M. K., Yamamoto, F., Huang, C., Wang, H., Zehnder, J. L., Le, Q. T., Pinsky, B. A.
2022; 21 (1): 154
- **SARS-CoV-2 Brain Regional Detection, Histopathology, Gene Expression, and Immunomodulatory Changes in Decedents with COVID-19. *Journal of neuropathology and experimental neurology***
Serrano, G. E., Walker, J. E., Tremblay, C., Piras, I. S., Huentelman, M. J., Belden, C. M., Goldfarb, D., Shprecher, D., Atri, A., Adler, C. H., Shill, H. A., Driver-Dunckley, E., Mehta, et al
2022
- **Management of antiplatelet therapy in patients with coronary stents undergoing noncardiac surgery. *The American journal of medicine***
Rohatgi, N., Zehnder, J. L., Smilowitz, N. R.
2022

- **Dysregulation of Brain inflammation in COVID-19: An autopsy series**
Piras, I., Huentelman, M., Walker, J., Arce, R., Tremblay, C., Glass, M., Sue, L., Nelson, C., Suszczewicz, K., Borja, C., Cline, M., Montine, T., Pinsky, et al
OXFORD UNIV PRESS INC.2022: 476
- **Acute Infarction, Hemorrhage and White Matter Beta-Amyloid Precursor Protein Immunostaining in COVID-19 and Control Subjects**
DeTure, M., Walker, J., Arce, R., Glass, M., Sue, L., Intorcica, A., Nelson, C., Suszczewicz, K., Borja, C., Montine, T., Pinsky, B., Zehnder, J., Serrano, et al
OXFORD UNIV PRESS INC.2022: 476
- **Diagnostic Impact of Next-Generation Sequencing Panels for Lymphoproliferative Neoplasms on Small-Volume Biopsies.** *American journal of clinical pathology*
Fei, F., Natkunam, Y., Zehnder, J. L., Stehr, H., Gratzinger, D.
2022
- **Evaluation of a Rapid and Accessible Reverse Transcription-Quantitative PCR Approach for SARS-CoV-2 Variant of Concern Identification.** *Journal of clinical microbiology*
Yeung, P. S., Wang, H., Sibai, M., Solis, D., Yamamoto, F., Iwai, N., Jiang, B., Hammond, N., Truong, B., Bihon, S., Santos, S., Mar, M., Mai, et al
2022: e0017822
- **Longitudinal study of 2 patients with cyclic thrombocytopenia, STAT3, and MPL mutations.** *Blood advances*
Zhang, H., Chien, M., Hou, Y., Shomali, W., Brar, R., Ho, C., Han, P., Xu, D., Zhang, B. M., Guo, X., Tolentino, L., Wu, N. C., Tsai, et al
2022
- **Smoking Status in Acute Myeloid Leukemia is Associated with Worse Overall Survival, Prior Non-Hematopoietic Malignancies, Cytogenetic Abnormalities, and WHO Category**
Kumar, J., Patel, S., Chang, A., Mukherjee, S., Small, C., Gollapudi, S., Weinberg, O., George, T., Zehnder, J., Ohgami, R.
SPRINGERNATURE.2022: 970-972
- **Smoking Status in Acute Myeloid Leukemia is Associated with Worse Overall Survival, Prior Non-Hematopoietic Malignancies, Cytogenetic Abnormalities, and WHO Category**
Kumar, J., Patel, S., Chang, A., Mukherjee, S., Small, C., Gollapudi, S., Weinberg, O., George, T., Zehnder, J., Ohgami, R.
SPRINGERNATURE.2022: 970-972
- **Diagnostic Impact of Next Generation Sequencing Panels for Lymphoproliferative Neoplasms on Small Volume Biopsies**
Fei, F., Natkunam, Y., Zehnder, J., Gratzinger, D.
SPRINGERNATURE.2022: 948-949
- **Diagnostic Impact of Next Generation Sequencing Panels for Lymphoproliferative Neoplasms on Small Volume Biopsies**
Fei, F., Natkunam, Y., Zehnder, J., Gratzinger, D.
SPRINGERNATURE.2022: 948-949
- **Potential pitfalls in multiplex PCR-based next-generation sequencing: a case-based report.** *Journal of clinical pathology*
Tung, J. K., Devereaux, K. A., Erdmann, A. L., Schrijver, I., Zehnder, J., Suarez, C. J.
2022
- **ENKURIN: A NOVEL MARKER FOR MYELOPROLIFERATIVE NEOPLASMS FROM VALIDATED PLATELET, MEGAKARYOCYTE, AND WHOLE BLOOD SPECIMENS**
Krishnan, A., Seetharam, S., Liu, Y., Wu, J., Fechter, L., Murugesan, K., Gotlib, J., Zehnder, J., Paulmurugan, R.
ELSEVIER SCIENCE INC.2022: S103
- **A Multiplex SNaPshot Assay is a Rapid and Cost-Effective Method for Detecting POLE Exonuclease Domain Mutations in Endometrial Carcinoma.** *International journal of gynecological pathology : official journal of the International Society of Gynecological Pathologists*
Devereaux, K. A., Steiner, D. F., Ho, C., Gomez, A. J., Gilks, B., Longacre, T. A., Zehnder, J. L., Howitt, B. E., Suarez, C. J.
1800
- **MDS and MDS/MPN Genomic Subgroups Demonstrate Differential Ex Vivo Drug Sensitivity**
Spinner, M. A., Schaffert, S. A., Stehr, H., TSantaguida, M., Kita, R., Aleshin, A., Zehnder, J. L., Greenberg, P. L.
AMER SOC HEMATOLOGY.2021
- **Incidence and risk factors associated with bleeding and thrombosis following chimeric antigen receptor T-cell therapy** *BLOOD ADVANCES*

- Johnsrud, A., Craig, J., Baird, J., Spiegel, J., Muffly, L., Zehnder, J., Tamaresis, J., Negrin, R., Johnston, L., Arai, S., Shizuru, J., Lowsky, R., Meyer, et al
2021; 5 (21): 4465-4475
- **Platelet transcriptome identifies progressive markers and potential therapeutic targets in chronic myeloproliferative neoplasms** *CELL REPORTS MEDICINE*
Shen, Z., Du, W., Perkins, C., Fechter, L., Natu, V., Maecker, H., Rowley, J., Gotlib, J., Zehnder, J., Krishnan, A.
2021; 2 (10)
 - **Platelet transcriptome identifies progressive markers and potential therapeutic targets in chronic myeloproliferative neoplasms.** *Cell reports. Medicine*
Shen, Z., Du, W., Perkins, C., Fechter, L., Natu, V., Maecker, H., Rowley, J., Gotlib, J., Zehnder, J., Krishnan, A.
2021; 2 (10): 100425
 - **SARS-CoV-2 Nucleocapsid Plasma Antigen for Diagnosis and Monitoring of COVID-19.** *Clinical chemistry*
Wang, H., Hogan, C. A., Verghese, M., Solis, D., Sibai, M., Huang, C., Roltgen, K., Stevens, B. A., Yamamoto, F., Sahoo, M. K., Zehnder, J., Boyd, S. D., Pinsky, et al
2021
 - **PLATELET TRANSCRIPTOME YIELDS PROGRESSIVE MARKERS IN CHRONIC MYELOPROLIFERATIVE NEOPLASMS AND IDENTIFIES PUTATIVE TARGETS OF THERAPY**
Krishnan, A., Du, W., Fechter, L., Gotlib, J., Maecker, H., Natu, V., Perkins, C., Rowley, J., Shen, Z., Zehnder, J.
ELSEVIER SCIENCE INC.2021: S82
 - **Mapping of SARS-CoV-2 Brain Invasion in COVID-19 Disease**
Serrano, G., Walkera, J., Arce, R., Glass, M., Vargas, D., Sue, L., Intorcica, A., Nelson, C., Oliver, J., Papa, J., Russell, A., Suszczewicz, K., Borja, et al
OXFORD UNIV PRESS INC.2021: 585
 - **Brain Histopathology in Subjects with COVID-19 Disease**
Beach, T., Dickson, D., Deture, M., Walker, J., Arce, R., Glass, M., Vargas, D., Sue, L., Intorcica, A., Nelson, C., Oliver, J., Russell, A., Suszczewicz, et al
OXFORD UNIV PRESS INC.2021: 585
 - **Multiplex SARS-CoV-2 Genotyping RT-PCR for Population-Level Variant Screening and Epidemiologic Surveillance.** *Journal of clinical microbiology*
Wang, H., Miller, J. A., Verghese, M., Sibai, M., Solis, D., Mfuh, K. O., Jiang, B., Iwai, N., Mar, M., Huang, C., Yamamoto, F., Sahoo, M. K., Zehnder, et al
2021: JCM0085921
 - **Identification of a SARS-CoV-2 Variant with L452R and E484Q Neutralization Resistance Mutations.** *Journal of clinical microbiology*
Verghese, M., Jiang, B., Iwai, N., Mar, M., Sahoo, M. K., Yamamoto, F., Mfuh, K. O., Miller, J., Wang, H., Zehnder, J., Pinsky, B. A.
2021
 - **Ultra-sensitive Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Antigen Detection for the Diagnosis of Coronavirus Disease 2019 (COVID-19) in Upper Respiratory Samples.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*
Wang, H., Hogan, C. A., Verghese, M., Solis, D., Sibai, M., Huang, C., Zehnder, J., Sahoo, M. K., Pinsky, B. A.
2021
 - **Mapping of SARS-CoV-2 Brain Invasion and Histopathology in COVID-19 Disease.** *medRxiv : the preprint server for health sciences*
Serrano, G. E., Walker, J. E., Arce, R., Glass, M. J., Vargas, D., Sue, L. I., Intorcica, A. J., Nelson, C. M., Oliver, J., Papa, J., Russell, A., Suszczewicz, K. E., Borja, et al
2021
 - **DOAC-Stop in lupus anticoagulant testing: Direct oral anticoagulant interference removed in most samples.** *Research and practice in thrombosis and haemostasis*
Baker, S. A., Jin, J., Pfaffroth, C., Vu, T., Zehnder, J. L.
2021; 5 (2): 314-325
 - **Strand Specific Reverse Transcription PCR for Detection of Replicating SARS-CoV-2** *EMERGING INFECTIOUS DISEASES*
Hogan, C. A., Huang, C., Sahoo, M. K., Wang, H., Jiang, B., Sibai, M., Holubar, M., Mathew, R., Zehnder, J., Pinsky, B. A.

2021; 27 (2): 632–35

- **DOAC-Stop in lupus anticoagulant testing: Direct oral anticoagulant interference removed in most samples** *RESEARCH AND PRACTICE IN THROMBOSIS AND HAEMOSTASIS*
Baker, S., Jin, J., Pfaffroth, C., Vu, T., Zehnder, J. L.
2021
- **Occurrence and Timing of Subsequent Severe Acute Respiratory Syndrome Coronavirus 2 Reverse-transcription Polymerase Chain Reaction Positivity Among Initially Negative Patients.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*
Long, D. R., Gombar, S., Hogan, C. A., Greninger, A. L., O'Reilly-Shah, V., Bryson-Cahn, C., Stevens, B., Rustagi, A., Jerome, K. R., Kong, C. S., Zehnder, J., Shah, N. H., Weiss, et al
2021; 72 (2): 323-326
- **Occurrence and Timing of Subsequent Severe Acute Respiratory Syndrome Coronavirus 2 Reverse-transcription Polymerase Chain Reaction Positivity Among Initially Negative Patients.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*
Long, D. R., Gombar, S., Hogan, C. A., Greninger, A. L., O'Reilly-Shah, V., Bryson-Cahn, C., Stevens, B., Rustagi, A., Jerome, K. R., Kong, C. S., Zehnder, J., Shah, N. H., Weiss, et al
2021; 72 (2): 323-326
- **Case-Control Study of Individuals with Discrepant Nucleocapsid and Spike Protein SARS-CoV-2 IgG Results.** *Clinical chemistry*
Wang, H. n., Wiredja, D. n., Yang, L. n., Bulterys, P. L., Costales, C. n., Röltgen, K. n., Manalac, J. n., Yee, J. n., Zehnder, J. n., Shi, R. Z., Boyd, S. D., Pinsky, B. A.
2021
- **Accurate detection and quantification of FLT3 internal tandem duplications in clinical hybrid capture next-generation sequencing data.** *The Journal of molecular diagnostics : JMD*
Tung, J. K., Suarez, C. J., Chiang, T., Zehnder, J. L., Stehr, H.
2021
- **Use of Outpatient-Derived COVID-19 Convalescent Plasma in COVID-19 Patients Before Seroconversion.** *Frontiers in immunology*
Wirz, O. F., Röltgen, K., Stevens, B. A., Pandey, S., Sahoo, M. K., Tolentino, L., Verghese, M., Nguyen, K., Hunter, M., Snow, T. T., Singh, A. R., Blish, C. A., Cochran, et al
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