

DAVID C. GAJZER, M.D.

EDUCATION

09/2002 – 06/2009 M.D. Degree
Ruprecht Karls Universitat Heidelberg, Germany

MEDICAL LICENSES AND CERTIFICATIONS

2018 - present Florida State Medical License
2010 Educational Commission for Foreign Medical Graduates
2009 – present German Medical License

GRADUATE MEDICAL EDUCATION

07/2019 – present Fellow, Hematopathology
H. Lee Moffitt Cancer Center and Research Institute/University of South Florida, Tampa, FL
07/2018 – 06/2019 Fellow, Transfusion Medicine and Blood Banking
Department of Pathology and Clinical Medicine, University of Miami/Jackson Memorial Hospital, Miami, FL
07/2014 – 06/2018 Resident Physician, Anatomic and Clinical Pathology
Department of Pathology and Laboratory Medicine, University of Miami/Jackson Memorial Hospital, Miami, FL

PREVIOUS PROFESSIONAL POSITIONS AND APPOINTMENTS

04/2012-05/2014 Postdoctoral Fellow
Division of Hematology/Oncology, Department of Medicine, Tisch Cancer Institute, Icahn School of Medicine at Mount Sinai, New York, NY
02/2011-04/2012 Postdoctoral Fellow
Cardiovascular Regenerative Medicine, Cardiovascular Research Center, Icahn School of Medicine at Mount Sinai, New York, NY
03/2010-01/2011 Research Associate
Division of Hematology/Oncology, Department of Medicine, Tisch Cancer Institute, Icahn School of Medicine at Mount Sinai, New York, NY
09/2009-03/2010 Research Fellow
Division of Endocrinology, Department of Medicine, Gerald J. Friedman Diabetes Institute, Beth Israel Medical Center, New York, NY

Date prepared: 10/01/2019

HOSPITAL/UNIVERSITY COMMITTEE APPOINTMENTS

David C. Gajzer, MD

04/2016 – 06/2018 Representative, Department of Pathology and Laboratory Medicine, Committee of Interns and Residents, University of Miami/Jackson Memorial Hospital, Miami, FL

HONORS AND AWARDS

- 2019 Award: University of South Florida Graduate Medical Education Research Grant
Project: Clinical Significance of MYC Oncoprotein in MDS to AML Progression
Funding: \$5,000
- 2017 International Society of Blood Transfusion
Vox Sanguinis Best Paper Prize 2016 to the authors of the article “Epigenetic and molecular signatures of cord blood CD34(+) cells treated with histone deacetylase inhibitors”
- 2017 Research Recognition Award
Department of Pathology and Laboratory Medicine, University of Miami/Jackson Memorial Hospital, Miami, FL
- 2015 Research Recognition Award
Department of Pathology and Laboratory Medicine, University of Miami/Jackson Memorial Hospital, Miami, FL
- 2009-2010 Gerald J. Friedman Research Fellowship in Endocrinology
Beth Israel Medical Center, New York, NY

PROFESSIONAL AND SOCIETY MEMBERSHIPS

- 2019 – present United States and Canadian Academy of Pathology
- 2017 – present College of American Pathologists
- 2016 – present Florida Society of Pathologists
- 2017 – present American Society of Clinical Pathology

TEACHING EXPERIENCE

- 04/2019 Invited lecture: “Blood Banking and Transfusion Medicine”
Audience: Incoming University of Miami Pediatrics residents as part of the “MS-4 Transition To Residency Pediatrics Boot Camp 2019”
- 04/2018 Invited lecture: “Blood Banking and Transfusion Medicine”
Audience: Incoming University of Miami Pediatrics residents as part of the “MS-4 Transition To Residency Pediatrics Boot Camp 2018”
- 2015 - 2018 University of Miami Medical Student Pathology Laboratory

PEER REVIEW

David C. Gajzer, MD

2011 - present Ad-hoc reviewer, Journal of Molecular and Cellular Cardiology

2017 - present Ad-hoc reviewer, Stem Cell Reviews and Reports

PRESENTATIONS

Gajzer DC, Iancu-Rubin C. Stathmin Overexpression Inhibits Megakaryocyte Maturation and Platelet Production. Gerald J. Friedman Research Fellow Virtual Symposium (2011) – online at <http://friedmanfellows.com/fellows>

Gajzer DC, Suwandhi P, Feng Y, Seth AK, Poretsky L, Seto-Young D. The Role of Thiazolidinediones in Bone Metabolism. Gerald J. Friedman Research Fellow Virtual Symposium (2009) – online at <http://friedmanfellows.com/fellows>

Gajzer DC. The Role of Fibroblast Growth Factor 19 in the Pathogenesis of Human Hepatocellular Carcinoma. Institute of Pathology, University Hospital Heidelberg, Germany, August 10, 2007

BIBLIOGRAPHY

PEER REVIEWED JOURNAL PUBLICATIONS

1. **Gajzer DC**, Basra P, Zhang L, Yun S. High MYC Protein Expression in Myelodysplastic Syndrome and Myelodysplastic/Myeloproliferative Neoplasm Predicts Early Disease Transformation to Acute Myeloid Leukemia. (manuscript in preparation – abstract submitted)
2. **Gajzer DC**, Suthumpong CY, Andrews DM. A Rapid, Efficient, and Cost-Effective Method of Von Willebrand Factor Multimer Analysis for Use in the Clinical Laboratory and Telemedicine. (Manuscript in preparation).
3. **Gajzer D**, Khanlari M, Agaimy A, Fletcher CD, Rosenberg AE. Primary Gastrointestinal Liposarcoma – A Case Series of a Rare Entity. (Manuscript in review).
4. Rushing CJ, Rogers DE, Spinner SM, **Gajzer DC**. A Case Report of Heel Pain Mimicking Plantar Fasciitis and Osteosarcoma: A Unique Presentation of a Nora's Lesion. *J Foot Ankle Surg.* 56(3):670-673 (2017)
5. **Gajzer D**, Ross J, Winder L, Navada S, Zhang W, Silverman L, Chaurasia P. Epigenetic and molecular signatures of cord blood CD34+ cells treated with histone deacetylase inhibitors. *Vox Sang.* 110(1):79-89 (2016)
6. **Gajzer DC**, Hirzel AC, Saigal G, Rojas CP, Rodriguez MM. Possible Genetic Origin of Limb-Body Wall Complex. *Fetal Pediatr Pathol.* 34(4):257-70 (2015)

David C. Gajzer, MD

7. Chaurasia P, **Gajzer DC**, Schaniel C, D'Souza S, Hoffman R. Epigenetic reprogramming induces the expansion of cord blood stem cells. *J Clin Invest.* 124(6):2378-95 (2014)
8. **Gajzer DC**, Balbin J, Chaudhry H. Thymosin Beta 4 and Cardiac Regeneration: are we missing a beat? *Stem Cell Rev.* 9(3):303-12 (2013)
9. Iancu-Rubin C, **Gajzer D**, Mosoyan G, Feller F, Mascarenhas J, Hoffman R. Panobinostat (LBH589)-induced acetylation of tubulin impairs normal thrombopoiesis. *Exp Hematol.* 40(7):564-74 (2012)
10. Iancu-Rubin C, **Gajzer D**, Tripodi J, Najfeld V, Gordon RE, Hoffman R, Atweh GF. Downregulation of stathmin expression is required for megakaryocyte maturation and platelet production. *Blood.* 117(17):4580-9 (2011)

ABSTRACTS/CONFERENCE PRESENTATIONS

Gajzer DC, Basra P, Yun S, Zhang L. High MYC Protein Expression in Myelodysplastic Syndrome and Myelodysplastic/Myeloproliferative Neoplasm Predicts Early Disease Transformation to Acute Myeloid Leukemia. (abstract submitted – Annual Meeting of the United States and Canadian Academy of Pathology, Los Angeles, CA, March 2020)

Gajzer D, Diaz J, Suthumpong C, Andrews D. A Rapid, Simple, and Cost-Effective Method of Von Willebrand Factor Multimer Analysis for Use in the Clinical Laboratory and Telemedicine. 2019 Sylvester Comprehensive Cancer Center Poster Session, University of Miami, Miami, FL, April 12th 2019.

Gajzer DC, Becerra MF, Velasquez MC, Kwon D, Ritch C, Jorda M. Does PD-L1 Expression in Non-Muscle-Invasive Bladder Cancer Correlate with Recurrence and Progression? Annual Meeting of the United States and Canadian Academy of Pathology, Gaylord National Resort & Convention Center, MD, March 2019.

Becerra M, **Gajzer D**, Velasquez M, Kwon D, Soodana-Prakash N, Jorda M, Ritch C. PD-L1 Expression in Non-Muscle-Invasive Bladder Cancer, Is There a Prognostic Role? 83rd Annual Meeting of the Southeastern Section of the American Urological Association, Phoenix, AZ, March 2019.

Gajzer DC, Suthumpong CY, Andrews DM. A Rapid, Efficient, and Cost-Effective Method of Von Willebrand Factor Multimer Analysis for Use in the Clinical Laboratory and Telemedicine. Annual Meeting of the American Society of Clinical Pathology, Baltimore, MD, October 2018.

Gajzer D, Khanlari M, Fletcher CD, Rosenberg AE. Primary Gastrointestinal Liposarcoma – A Case Series of a Rare Entity. Annual Meeting of the United States and Canadian Academy of Pathology, Vancouver, BC, Canada, March 2018.

Gajzer D, Tjendra Y, Kunkalla K, Kim CH, Ikpat OF, Chapman J, Sanchez S, Yang G, Kwon D, Vega F, Agarwal NK. Clinical and Biological Significance of GLI1 Expression in Diffuse Large B-Cell Lymphoma. Annual Meeting of the United States and Canadian Academy of Pathology, Seattle, WA, March 2016.

Chaurasia P, Gajzer D, Ross J, Schaniel C, D'Souza S, Hoffman R. Epigenetic Reprogramming Enhances The Expansion Of Cord Blood Stem Cells. Annual NYSTEM Meeting, New York, NY, May 2014.

David C. Gajzer, MD

Chaurasia P, **Gajzer D**, D'Souza S, Hoffman R. Histone Deacetylase Inhibitors Target Pluripotency Genes in Cord Blood Stem Cells and Affect Their Behavior. Annual NYSTEM Meeting, New York, NY, May 2013.

Chaurasia P, **Gajzer D**, Feldman M, Hoffman R. Histone Deacetylase Inhibitors Promote the Ex Vivo Expansion of Cord Blood CD34+ Cells in Serum Free Cultures Accompanied by the Upregulation of Pluripotency Genes. Annual Meeting of the American Society of Hematology, Atlanta, GA, December 2012.

Iancu-Rubin C, **Gajzer D**, Mosoyan G, Mascarenhas J, Hoffman R. Panobinostat (LBH589)- Mediated Acetylation of Tubulin Plays a Role in Megakaryocyte Maturation and Platelet Release. Annual Meeting of the American Society of Hematology, San Diego, CA, December 2011.

Iancu-Rubin C, Tripodi J, **Gajzer D**, Najfeld V, Hoffman R, Atweh GF. Stathmin- Mediated Dysregulation of Microtubules Impairs Megakaryocyte Maturation and Platelet Production. Annual Meeting of the American Society of Hematology, Orlando, FL, December 2010.

Iancu-Rubin C, Feller F, **Gajzer D**, Mascarenhas J, Hoffman R. Targeting Non-Histone Protein Acetylation Impairs Platelet Production During Normal Megakaryocytopoiesis. Annual Meeting of the American Society of Hematology, Orlando, FL, December 2010.

Seth AK, **Gajzer DC**, Suwandhi P, Feng Y, Kato S, Romero C, Patel R, Rosenwaks Z, Poretsky L, Seto-Young D. Thiazolidinediones Inhibit Bone Turnover. 92nd Annual Meeting of the Endocrine Society, San Diego, CA, June 2010.

Bott F, **Gajzer D**, Schiller C, Schlaeger C, Radlwimmer B, Schirmacher P, Longerich T. Role of FGF19-FGFR4 Signaling in Human Hepatocellular Carcinoma. Annual Meeting of the International Liver Cancer Association, Chicago, IL, September 2008.

BOOK CHAPTERS

David Gajzer, Lugen Chen and Ling Zhang. B-lymphoblastic Leukemia/Lymphoma involving Spleen or Liver. In: Diagnostic Pathology of Hematopoietic Disorders of Spleen and Liver. Editors: Ling Zhang, Haipeng Shao and Serhan Alkan. Springer 2019 (in press)

David Gajzer and Ling Zhang. T-lymphoblastic Leukemia/Lymphoma involving Spleen or Liver. In: Diagnostic Pathology of Hematopoietic Disorders of Spleen and Liver. Editors: Ling Zhang, Haipeng Shao and Serhan Alkan. Springer 2019 (in press)

David Gajzer and Ling Zhang. Aggressive Natural Killer Cell Leukemia and T-Cell Prolymphocytic Leukemia: Two Rare and Highly Aggressive Hematologic Neoplasms Typically Involving Liver and Spleen. In: Diagnostic Pathology of Hematopoietic Disorders of Spleen and Liver. Editors: Ling Zhang, Haipeng Shao and Serhan Alkan. Springer 2019 (in press)

RESEARCH EXPERIENCE AND SKILL SET

In vivo experiments

Limiting dilution assay
Bone marrow harvest and immunophenotyping by flow cytometric analysis
Genotyping

In vitro experiments

Flow cytometry – sample acquisition and analysis
Cell culture – hematopoietic stem cells, serum-free and serum-containing
Isolation of CD34+ cells from umbilical cord blood units and purity assessment by flow cytometry
Colony forming assays on semi-solid agar
In vitro hematopoietic stem cell homing assay
Real-time qPCR
Genotyping
Western blot analysis and protein densitometry
Immunofluorescence (cytospin, tissue)
DNA sequence cloning
Retroviral vector packaging, concentration and functionality testing
Plasmid purification
Preparation of Wright/Giemsa stained glass slides