

American Society of Hematology

63rd Annual Meeting and Exposition
December 11-14, 2021
Georgia World Congress Center
Atlanta, GA

Mass General Cancer Center Hematological Malignancy

Invited Talks • Oral Presentations • Poster Presentations

INVITED TALKS

(Education/Scientific Session/CME)

1. Marcela Maus (Invited Speaker and Session Chair)

Session: Novel Findings in CAR-T Cell Therapies for Hematologic Malignancies

Talk: “Signaling in CAR-T Cells”

Scientific Committee on Transplantation Biology and Cellular Therapies

Date: Monday, December 1, 2021

Time: 4:30-5:30 PM (Live Q&A)

Location: Georgia World Congress Center, C211-C213

2. Areej El-Jawahri (Invited Speaker)

Session: Update in Graft vs. Host Disease

Talk: “What else do I need to worry about when treating GVHD?”

ASH Education Program

Date: Saturday, December 11, 2021

Time: 4:00-4:45 PM (Live Q&A)

Location: Georgia World Congress Center, C211-C213

3. Gabriela Hobbs (Invited Speaker)

Session: CML: Success Breeds More Success

Talk: “Blast and Accelerated Phase CML: Room for Improvement”

ASH Education Program

Date: Saturday, December 11, 2021

Time: 2:00-2:45 PM (Live Q&A)

Location: Georgia World Congress Center, B401-B402

4. Noopur Raje (Invited Speaker)

Session: Challenges in Multiple Myeloma Treatment

Talk: “Minimal Residual Disease in Multiple Myeloma—Why, When, Where, and How?”

ASH Education Program

Date: Sunday, December 12, 2021

Time: 9:30- 10:15 AM (Live Q&A)

Location: Georgia World Congress Center, Hall A1

5. Amir Fathi (Invited Speaker)

Session: Acute Myeloid Leukemia: Evidence-Based Guidance on Current Paradigms and New Therapeutic Approaches (Satellite Symposium)

Talk: “Treating Newly Diagnosed AML With Targetable Mutations”

Date: Friday, December 10, 2021

Time: 7:00- 10:00 AM

Location: Atlanta Marriott Marquis, Atrium A

6. Jeremy Abramson (Invited Speaker)

Session: What Clinicians Want to Know: Addressing Current Questions and Controversies in the Management of Hodgkin and Non-Hodgkin Lymphoma (Satellite Symposium)

Talk: “Updates in Non-Hodgkin Lymphoma”

Date: Friday, December 10, 2021

Time: 11:00 AM-2:00 PM

Location: Omni, International Ballroom E-F



Mass General Brigham

Mass General Cancer Center 1

INVITED TALKS

7. Andrew Branagan (Invited Speaker)

Session: ASH-a-Palooza (Friday Symposium)

Talk: “Adult Hematology Blood Buddy”

Date: Friday, December 10, 2021

Time: 2:45-3:10 PM

Location: Tabernacle, Balcony Section 201

8. Yi-Bin Chen (Invited Speaker)

Session: Highlights of ASH

Talk: “BMT Updates”

Date: January 2022

10. Jeremy Abramson (Invited Speaker)

Session: Highlights of ASH

Talk: “Non-Hodgkin Lymphoma Updates”

Date: January, 2022

ORAL PRESENTATIONS

(NOTE: presenting author shown in bold.)

1. Matthew Frigault, J Dietrich, KME Gallagher, I Scarfò, M Roschewski, JT Jordan, DA Forst, SR Plotkin, D Cook, K Casey, K Katsis, K Lindell, M Traylor, N Horick, S McAfee, PV O'Donnell, TR Spitzer, BR Dey, Z Defilipp, A El-Jawahri, T Batchelor, MV Maus, Y-B Chen.

Publication Number: 258

Title: “Tisagenlecleucel Demonstrates Safety, Efficacy and CNS Trafficking in Primary CNS Lymphoma”

Session: 704. Cellular Immunotherapies: Cellular Therapies-Immune Interactions, Lineage Switching and CNS targets

Date: Saturday, December 11, 2021

Time: 3:15-3:30PM

Location: Georgia World Congress Center, Hall A1

2. Matthew Frigault, Y-B Chen, KME Gallagher, NK Horick, A El-Jawahri, I Scarfò, M Wehrli, L Huang, K Casey, D Cook, T Spitzer, S McAfee, FI Preffer, M Armant, KL Shaw, H Daley, S Nikiforow, J Ritz, MV Maus.

Publication Number: 653

Title: “Phase 1 Study of CD37-Directed CAR T Cells in Patients with Relapsed or Refractory CD37+ Hematologic Malignancies”

Session: 704. Cellular Immunotherapies: Allogeneic CARs and CARs for T Cell Lymphomas

Date: Monday, December 13, 2021

Time: 11:30-11:45AM

Location: Georgia World Congress Center, Sidney Marcus Auditorium



Mass General Brigham

Mass General Cancer Center 2

ORAL PRESENTATIONS

- 3. Mark B. Leick**, H Silva, I Scarfò, R Larson , BD Choi , AA Bouffard , K Gallagher, A Schmidts , SR Bailey , M Kann, M Jan, M Wehrli, K Grauwet, MJ Frigault, MV Maus.
Publication Number: 405
Title: “Rational Chemical and Genetic Modifications Enhance Avidity and Function of CD70-Directed CAR-T-Cells for Myeloid Leukemia”
Session: 703. Cellular Immunotherapies: Basic and Translational II
Date: Sunday, December 12, 2021
Time: 10:00-10:15 AM
Location: Georgia World Congress Center, B405-B407
- 4. Joan Howe**, KME Gallagher; Y Liu; A DeMato; K Katsis, RC Larson, MB Leick, D Neuberger; MGH COVID-19 Collection & Processing Team; MV Maus; G Hobbs.
Publication Number: 316
Title: “Antibody and T-Cell Responses to COVID-19 Vaccination in Myeloproliferative Neoplasm Patients”
Session: 634. Myeloproliferative Syndromes: Clinical and Epidemiological: Transplantation, COVID-19 and Biology Insights
Date: Saturday, December 11, 2021
Time: 4:45-5:16 PM
Location: Georgia World Congress CenterC, B312-B314
- 5. Hannah R. Abrams**, RD Nipp, L Traeger, MW Lavoie, MJ Reynolds, TW LeBlanc, A El-Jawahri
Publication Number: 109
Title: Code status transitions in patients with high-risk acute myeloid leukemia (AML)”
Session: 903. Health Services Research—Myeloid Malignancies. Hematology Disease Topics & Pathways: Clinical Practice (e.g. Guidelines, Health Outcomes and Services, and Survivorship, Value; etc.)
Date: Saturday, December 11, 2021
Time: 9:30-9:45 AM
Location: Georgia World Congress Center, B207-B208
- 6. Gabriela Hobbs**, HT Kim, AJ Bottoms, AJ, MT Byrne, M Schroeder, R Tamari, SA Wall, Z DeFillip, A El-Jawahri, S McAfee, Y-B Chen.
Publication Number: 169
Title: “A Phase II Study of Ruxolitinib Pre-, during- and Post-Hematopoietic Cell transplantation for Patients with Primary or Secondary Myelofibrosis”
Session: Allogeneic Transplantation: Disease Response and Comparative Treatment Studies: Novel Approaches and Outcomes
Date: Saturday, December 11, 2021
Time: 12:00-12:15 PM
Location: Georgia World Congress Center, B308-B309
- 7. Andrew Brunner**, J Esteve, K Porkka, S Knapper, E Traer, S Scholl, G Garcia-Manero, N Vey, M Wermke, J Janssen, R Narayan, S Loo, N Tovar, M Kontro, O Ottmann, P Naidu, M Pelletier, M Han, N Zhang, A Mohammed, ML Rinne, U Borate, AH Wei.
Publication Number: 244
Title: “Efficacy and Safety of Sabatolimab (MBG453) in Combination with Hypomethylating Agents (HMAs) in Patients (Pts) with Very High/High-Risk Myelodysplastic Syndrome (vHR/HR-MDS) and Acute Myeloid Leukemia (AML): Final Analysis from a Phase Ib Study”
Session: 637. Myelodysplastic Syndromes – Clinical and Epidemiological: Treatment of High Risk Myelodysplastic Syndrome. Hematology Disease Topics & Pathways: Clinical Trials, Biological, Adults, Clinical Research, Immunology, Diseases, Therapies, Myeloid Malignancies, Biological Processes, Study Population.
Date: Saturday, December 11, 2021
Time: 2:45-3:00 PM
Location: Georgia World Congress Center, B207-B208



ORAL PRESENTATIONS

- 8. Jeremy Abramson**, AS Ruppert, S Giri, A Hudson, ED Hsi, RF Little, SD Gore, A Vallurupalli, DJ Landsburg, BS Kahl, JW Friedberg, NL Bartlett, JP Leonard.
Publication Number: 523
Title: “Randomized Phase II/III Study of DA-EPOCH-R +/- Venetoclax in Previously Untreated Double Hit Lymphoma: Initial Results from Alliance A051701”
Session: 626. Aggressive Lymphomas Prospective Therapeutic Trials: Novel Agents and Combinations
Date: Sunday, December 12, 2021
Time: 4:30-4:45 PM
Location: Georgia World Congress Center, Thomas Murphy Ballroom 1-2
- 9. Rie Nakamoto-Matsubara**, V Nardi, C Panaroni, K Fulzele, T Mori, R Verma, AJ Yee, AR Branagan, MD, E O’Donnell, NS Raje.
Publication Number: 398
Title: “Molecular Features and Clinical Outcomes of Extramedullary Plasmacytomas”
Session: 652. Multiple Myeloma and Plasma cell Dyscrasias: Clinical and Epidemiological: A Map for the Changing Landscape of Multiple Myeloma
Date: Sunday, December 12, 2021
Time: 9:45-10:00 AM
Location: Georgia World Congress Center, A411-412
- 10. Christina Panaroni**, K Fulzele, R Nakamoto-Matsubara, A Maebius, C Onyewadume, T Mori, NS Raje.
Publication Number: 74
Title: “Mature Osteoblasts Are Critical Bone Marrow Niche Cells Regulating Multiple Myeloma Cell Growth, at Least in Part, By Affecting the Local Immune Microenvironment”
Session: 651. Multiple Myeloma and Plasma Cell Dyscrasias: Basic and Translational I
Date: Saturday, December 11, 2021
Time: 10:00-10:15 AM
Location: Georgia World Congress Center, Sidney Marcus Auditorium
- 11. Noopur Raje**, N Shah, S Jagannath, JL Kaufman, DS Siegel, NC Munshi, J Rosenblatt, Y Lin, A Jakubowiak, A Timm, A Yeri, N Martin, TB Campbell, O Finney, A Truppel-Hartmann, F Petrocca, JG Berdeja, M Alsina.
Publication Number: 548
Title: “Updated Clinical and Correlative Results from the Phase I CRB-402 Study of the BCMA-Targeted CAR T Cell Therapy bb21217 in Patients with Relapsed and Refractory Multiple Myeloma”
Session: 704. Cellular Immunotherapies: Cellular Therapies for Myeloma
Date: Sunday, December 12, 2021
Time: 4:45-5:00 PM
Location: Georgia World Congress Center, Hall C2-C3



POSTER PRESENTATIONS

(NOTE: presenting author shown in bold.)

- I Scarfo**, MKE Gallagher, **Mark B Leick**, J Budka, B Sowrirajan, K Nguyen, R Shen, A Bot, MV Maus.
Publication Number: 3849
Title: “Effects of Prior Exposure to Tec Kinase (BTK/ITK) Inhibitors on Kte-X19 Products.”
Date: Monday, December 13, 2021
Time: 6:00 PM - 8:00 PM
Location: Georgia World Congress Center, Hall B5
- Matthew Frigault**, J Rosenblatt, NS Raje, G Depinho, D Cook, EK Logan, CR Heery, C Cornwell, M Sheppard, D Avigan, A Jakubowiak, MR Bishop.
Publication Number: 3832
Title: “Phase 1 Study of CART-Ddbcma, a CAR-T Therapy Utilizing a Novel Synthetic Binding Domain for the Treatment of Subjects with Relapsed and /or Refractory Multiple Myeloma”
Date: Monday, December 13, 2021
Time: 6:00 PM - 8:00 PM
Location: Georgia World Congress Center, Hall B5
- Matthew Frigault**, KME Gallagher, M Wehrli, B Valles, K Casey, K Lindell, M Traylor, H Cho, JL Brown, NK Horick, J Chou, RR Shen, S Filosto, A Bot, MV Maus.
Publication Number: 2814
Title: “A Phase II Trial of Anakinra for the Prevention of CAR-T Cell Mediated Neurotoxicity”
Date: Sunday, December 12, 2021
Time: 6:00 PM - 8:00 PM
Location: Georgia World Congress Center, Hall B5
- Stefanie R. Bailey**, S Vatsa, R Larson, AA Bouffard, I Scarfò, KME Gallagher, MJ Frigault, MV Maus.
Publication Number: 1723
Title: “Blocking IFN γ in CAR-T Reduces Checkpoint Inhibitors and Cell-Mediated Toxicity without Compromising Therapeutic Efficacy in CD19+malignancies”
Date: Saturday, December 11, 2021
Time: 5:30 PM - 7:30 PM
Location: Georgia World Congress Center, Hall B5
- Areej El-Jawahri**, C Meyer, L-W Mau, D Mattila, LJ Burns, C Ullrich, HS Murthy, WA Wood, EW Petersdorf, TW LeBlanc.
Publication Number: 2968
Title: “What do patients think about palliative care? A national survey of hematopoietic stem cell transplant recipients”
Date: Sunday, December 12, 2021
Time: 6:00 PM - 8:00 PM
Location: Georgia World Congress Center, Hall B5



POSTER PRESENTATIONS

6. Mathew Reynolds, M Bodd, A Nelson, R Newcomb, PC Johnson, T Dhawale, L Heuer, S Gillani, D Yang, EC Deary, E Daskalakis, L Goldschen, AM Brunner, AT Fathi, TW LeBlanc, A El-Jawahri, HL Amonoo.

Publication Number: 4131

Title: “The association between coping strategies and patient-reported outcomes in patients with acute myeloid leukemia”

Date: Monday, December 13, 2021

Time: 6:00-8:00 PM

Location: Georgia World Congress Center, Hall B5

7. P. Connor Johnson, C Jacobson, A Yi, A El-Jawahri, MJ Frigault.

Publication Number: 4100

Title: “Association of bridging therapy utilization with clinical outcomes in patients receiving chimeric antigen receptor (CAR) T-cell therapy”

Date: Monday, December 13, 2021

Time: 6:00-8:00 PM

Location: Georgia World Congress Center, Hall B5

8. Elizabeth K. O'Donnell, YN Shapiro, O Nadeem, AJ Yee, JP Laubach, AR Branagan, KC Anderson, CC Mo, NC Munshi, IM Ghobrial, AS Sperling, E Agyemang, J Burke, C Harrington, B Hu, PG Richardson, NA Raje, A El-Jawahri.

Publication Number: 3044

Title: “Quality of life, psychological distress, and prognostic awareness in caregivers of patients with multiple myeloma”

Date: Sunday, December 12, 2021

Time: 6:00-8:00 PM

Location: Georgia World Congress Center, Hall B5

9. Elizabeth K. O'Donnell, YN Shapiro, O Nadeem, AJ Yee, JP Laubach, AR Branagan, KC Anderson, CC Mo, NC Munshi, IM Ghobrial, AS Sperling, E Agyemang, J Burke, C Harrington, B Hu, PG Richardson, NA Raje, A El-Jawahri.

Publication Number: 4082

Title: “Quality of life, psychological distress, and prognostic awareness in patients with multiple myeloma”

Date: Monday, December 13, 2021

Time: 6:00-8:00 PM

Location: Georgia World Congress Center, Hall B5

10. Andrew Brunner, Yiwen Liu, Lourdes Mendez, Jacqueline S. Garcia, Philip Amrein, Donna Neuberg, Emma Dean, Simon Smith, Richard M. Stone, Amir T. Fathi, Matthew Walter, Tim Graubert, Meagan A. Jacoby.

Publication Number: 1521

Title: “Inhibition of ATR with AZD6738 (Ceralasertib) for the Treatment of Progressive or Relapsed Myelodysplastic Syndromes and Chronic Myelomonocytic Leukemia: Safety and Preliminary Activity from a Phase Ib/II Study”

Date: Saturday, December 11, 2021

Time: 5:30 PM - 7:30 PM

Location: Georgia World Congress Center, Hall B5



POSTER PRESENTATIONS

11. Samueli Eldfors, S Rai, V Sharma, AN Gilbert, K Porkka, TA Graubert.

Publication Number: 3661

Title: “ATR/CHK1/WEE1 Dependency in SRSF2-Mutated MDS/AML”

Date: Monday, December 13, 2021

Time: 6:00-8:00 PM

Location: Georgia World Congress Center, Hall B5

12. Joan How, P Bachanova, M Pavlovic, P Reeves, G Hobbs.

Publication Number: 3631

Title: “Immune Profiling of Responses to Influenza Vaccination in Patients with Myeloproliferative Neoplasms”

Date: Monday, December 13, 2021

Time: 6:00-8:00 PM

Location: Georgia World Congress Center, Hall B5

13. Orly Leiva, U Campia, J Snyder, B Barns, S Rizzo, C Khairani, A Brunner, H Al-Samkari, R Karp-Leaf, R Rosovsky, K Goodarzi, L Bornikova, A Fathi, SZ Goldhaber, G Hobbs, G Piazza.

Publication Number: 1508

Title: “Increased Risk of Thrombosis in Patients with Myeloproliferative Neoplasms Compared with the General Population Hospitalized with COVID-19”

Date: Saturday, December 11, 2021

Time: 5:30-7:30pm

Location: Georgia World Congress Center, Hall B5

14. Orly Leiva, S Ren, D Neuberg, A Bhatt, A Jenkins, R Rosovsky, R Karp-Leaf, K Goodarzi, G Hobbs.

Publication Number: 3653

Title: “Pulmonary Hypertension Is Associated with Poor Outcomes in Patients with Myeloproliferative Neoplasms and Cardiovascular Disease”

Date: Monday, December 13, 2021

Time: 6:00-8:00 PM

Location: Georgia World Congress Center, Hall B5

15. Andrew Brunner, A Gavralidis, NA Ali, R Komrokji, A Zeidan, D Sallman.

Publication Number: 1522

Title: “Evaluating Complete Remission with Incomplete Hematologic Recovery (CRh) As a Response Criterion in Myelodysplastic Syndromes (MDS)”

Date: Saturday, December 11, 2021

Time: 5:30-7:30pm

Location: Georgia World Congress Center, Hall B5



POSTER PRESENTATIONS

- 16. Andrew Brunner**, E Traer, N Vey, S Scholl, N Tovar, K Porkka, R Narayan, G Garcia-Manero, S Knapper, M Wermke, JJ Janssen, J Esteve, S Loo, M Kontro, Z Defilipp, AH Wei, U Borate.
Publication Number: 3677
Title: “Allogeneic Hematopoietic Cell Transplantation Outcomes of Patients with R/R AML or Higher-Risk MDS Treated with the TIM-3 Inhibitor MBG453 (Sabatolimab) and Hypomethylating Agents”
Date: Monday, December 13, 2021
Time: 6:00-8:00 PM
Location: Georgia World Congress Center, Hall B5
- 17. Min Jung Koh**, MH Merrill, MJ Koh, RN Stuver, CD Alonso, FM Foss, AM Mayor, MJ Gill, M Epeldegui, E Cachay, JE Thorne, MJ Silverberg, MA Horberg, KN Atlhoff, AE Nijhawan, KA McGinnis, CS Rabkin, S Napravnik, C Shen, S Jain.
Publication Number: 1380
Title: “Comparative Analysis of Mature T-Cell and NK/T-Cell Lymphomas in Patients with and without HIV: Results from the NA-Accord and Complete Cohorts”
Date: Saturday, December 11, 2021
Time: 5:30-7:30pm
Location: Georgia World Congress Center, Hall B5
- 18. N Shafagati**, RN Stuver, L Boussi, MJ Koh, A Park, P Bain, FM Foss, C Shen, S Jain.
Publication Number: 1431
Title: “Novel Single Agents Are Equivalent to Conventional Chemotherapy Inpatients with Relapsed and Refractory Mature T-Cell Lymphomas: A Meta-Analysis”
Date: Saturday, December 11, 2021
Time: 5:30-7:30pm
Location: Georgia World Congress Center, Hall B5
- 19. Jeremy Abramson**, SR Solomon, JE Arnason, PB Johnston, B Glass, A Crotta, S Montheard, A Previtali, FF Liu, J Braverman, S Guo, L Shi, M Kamdar.
Publication Number: 3845
Title: “Improved Quality of Life (QOL) with Lisocabtagene Maraleucel (liso-cel), a CD19-Directed Chimeric Antigen Receptor (CAR) T Cell Therapy, Compared with Standard of Care (SOC) As Second-Line (2L) Treatment in Patients (Pts) with Relapsed or Refractory (R/R) Large B-Cell Lymphoma (LBCL): Results from the Phase 3 Transform Study”
Date: Monday, December 13, 2021
Time: 6:00-8:00 PM
Location: Georgia World Congress Center, Hall B5



POSTER PRESENTATIONS

20. Jeremy Abramson, L Palomba, LI Gordon, MA Lunning, M Wang, JE Arnason, E Purev, DG Maloney, C Andreadis, AR Sehgal, SR Solomon, N Ghosh, A Kostic, Y Kim, K Ogasawara, C Dehner, T Siddiqi.

Publication Number: 2840

Title: “Two-Year Follow-up of Transcend NHL 001, a Multicenter Phase 1 Study of Lisocabtagene Maraleucel (liso-cel) in Relapsed or Refractory (R/R) Large B-Cell Lymphomas (LBCL)”

Date: Sunday, December 12, 2021

Time: 6:00-8:00 PM

Location: Georgia World Congress Center, Hall B5

21. P. Connor Johnson, C Jacobson, A Yi, A El-Jawahri, MJ Frigault.

Publication Number: 4100

Title: “Association of Bridging Therapy Utilization with Clinical Outcomes in Patients Receiving Chimeric Antigen Receptor (CAR) T-Cell Therapy”

Date: Monday, December 13, 2021

Time: 6:00-8:00 PM

Location: Georgia World Congress Center, Hall B5

22. Jacob Soumerai, AR Mato, A Dogan, V Seshan, E Joffe, K Flaherty, J Carter, EP Hochberg, JA Barnes, A Hamilton, JS Abramson, CL Batlevi, M Matasar, A Noy, C Owens, ML Palomba, A Kumar, T Takvorian, A Ni, M Choma, C Friedman, P Chadha, E Simkins, J Ruiters, S Sechio, D Portman, N Nolet, N Mahajan, R Martignetti, J Mi, KJ Scorsune, JM Lynch, B McGree, SY Hughes, C Grieve, LE Roeker, MC Thompson, PC Johnson, M Roshal, J Huang, JML Biondo, J Qun Wu, AP Jacob, O Abdel-Wahab, AD Zelenetz.

Publication Number: 3753

Title: “Zanubrutinib, Obinutuzumab, and Venetoclax in Chronic Lymphocytic Leukemia: Early MRD Kinetics Define a High-Risk Patient Cohort with Delayed Bone Marrow Undetectable MRD and Earlier Post-Treatment MRD Recurrence”

Date: Monday, December 13, 2021

Time: 6:00-8:00 PM

Location: Georgia World Congress Center, Hall B5

23. Andrew Branagan, MM Lei, JS Maron, AJ Yee, E O’Donnell, JJ Castillo, NS Raje, SP Treon, CA Flynn, CC Mo, O Nadeem, PG Richardson, C Panaroni, K Meid, ZS Bernstein, RT Lyons, ZR Hunter, ML Guerrero, MT Gammon, KJ Lively, L Packer, M Waterman, R Gallagher, B Juleg, G Alter, S Sarosiek.

Publication Number: 3801

Title: “COVID-19 Vaccine Responsiveness in Patients with Multiple Myeloma and Waldenström Macroglobulinemia”

Date: Monday, December 13, 2021

Time: 6:00-8:00 PM

Location: Georgia World Congress Center, Hall B5

24. C. Panaroni, K Fulzele, T Mori, R Nakamoto-Matsubara, A Maebius, NS Raje.

Publication Number: 1614

Title: “Bone Marrow Adipocytes Induce Metabolic Reprogramming of Multiple Myeloma Cells”

Date: Saturday, December 11, 2021

Time: 5:30-7:30pm

Location: Georgia World Congress Center, Hall B5

