Yigal Dror-Round 14

Bone marrow failure-causing alleles in Canada and genotype-phenotype correlation

Funded in partnership with the Childhood Cancer Canada Foundation/ St Baldricks Foundation, and the Coast-to-Coast Against Cancer Foundation.

Publications

1. Boonyawat B, Dhanraj S, al Abbas F, Zlateska B, Gruenbaum E, Roifman CM, Steele L, Meyn S, Blanchette V, Scherer S, Swierczek S, Prchal J, Zhu Q, Torgerson TR, Ochs HD, Dror Y. Combined de-novo mutation and non-random X-chromosome inactivation causing Wiskott-Aldrich syndrome in a female with thrombocytopenia. J Clin Immunol 2013: 33(7): pp 1150-5.
2. Ghemlas I, Li H, Zlateska B, Klaassen R, Fernandez CV, Yanofsky RA, Wu J, Pastore Y, Silva M, Lipton JH, Brossard J, Michon B, Abish S, Steele M, Sinha R, Belletrutti M, Breakey VR, Jardine L, Goodyear L, Sung L, Dhanraj S, Reble E, Wagner A, Beyene J, Ray P, Meyn S, Cada M, Dror Y. Improving diagnostic precision, care and syndrome definitions using comprehensive next-generation sequencing for the inherited bone marrow failure syndromes. J Med Genet 2015 Sept: 52(9):575-84.
3. Waespe N, Dhanraj S, Wahala M, Tsangaris E, Enbar T, Zlateska B, Li H, Klaassen RJ, Fernandez CV, Cuvelier GDE, Wu JK, Pastore YD, Silva S,. Lipton JH, Brossard J, Michon B, Abish S, Steele M, Sinha R, Belletrutti MJ, Breakey VR, Jardine L, Goodyear L, Kofler L, Cada M, Sung L, Shago M, Scherer SW, Dror Y. The clinical impact of copy number variants in inherited bone marrow failure syndromes. npj Genomic Medicine 2017.

Oral Presentations of Abstracts

1. Ghemlas I, Li H, Zlateska B, Klaassen RJ, Fernandez CV, Yanofsky R, Wu JK, Pastore Y, Silva M, Lipton JH, Brossard J, Bruno M, Abish S, Steele M, Sinha R, Belletrutti MJ, Breakey VR, Jardine L, Goodyear L, Sung L, Dhanraj S, Reble E, Wagner A, Beyene J, Ray P, Meyn S, Cada M, Dror Y. Application of Novel Next Generation Sequencing Gene Panel Assay to Genetic and Clinical Diagnosis of Inherited Bone Marrow Failure Syndromes. Proceedings from the 56th American Society of Hematologists Annual Meeting and Exposition, San Francisco, CA, December 6-9, 2014. Blood 2014; 124(21)

   (Achievement Award ($500 USD) for one of the top abstract submissions of over 3000 submitted abstracts).

Invited Lectures

1. Severe Chronic Neutropenia International Advisory Board. Atlanta, GA, Dec 2012. Shwachman-Diamond syndrome and other neutropenias on the Canadian Inherited Bone Marrow Failure Study.
2. Pediatric Grand Rounds, Kaplan Hospital, Rehovot, Israel. Jul 25, 2013. Visiting Professor: Genetic basis and pathogenesis of inherited bone marrow failure syndromes.
3. Severe Chronic Neutropenia International Advisory Board, New Orleans, LA, Dec 2013. Inherited neutropenia on the Canadian registry
4. Severe Chronic Neutropenia International Registry (SCNIR) Advisory Meeting, San Francisco, CA,

December 5, 2015. Application of a Novel Next Generation Sequencing Gene Panel Assay to Genetic and Clinical Diagnosis of Inherited Bone Marrow Failure Syndromes

5. Texas Children's Hospital and Baylor College of Medicine Pediatric Hematology/ Oncology. Houston, Texas, Visiting Professor: October 27th, 2016. Inherited bone marrow failure syndromes – insights from recent genetic and clinical studies in Canada.

Poster presentations of abstracts

1. Zlateska B, Li H, Ghemlas I, Klaassen R, Fernandez CV, Yanofsky R, Wu J, Pastore Y, Silva M, Lipton JH, Brossard B, Michon B, Abish S, Steele M, Zinha R, Belletrutti M, Breakey V, Jardine L, Goodyear L, Wagner A, Cada A, Dror Y. Genotyping Strategies For Diamond Blackfan Anemia Patients In Canada. DBA International Consensus Conference, Atlanta, Georgia, Mar 8-10, 2014

2. Ghemlas I, Li H, Zlateska B, Dhanraj S, Klaassen R, Fernandez CV, Yanofsky R, Wu J, Pastore Y, Silva M, Lipton J, Brossard J, Michon B, Abish S, Steele M, Sinha R, Belletrutti M, Breakey V, Jardine L, Goodyear L, Wagner A, Cada M, Dror Y. A Novel Comprehensive Next Generation Sequencing Gene Panel Markedly Improves The Diagnostic Process of Complex Inherited Bone Marrow Failure Syndromes. Hematology Research Day, University Health Network, Toronto, Apr 2, 2014

3. Zlateska B, Klaassen R, Fernandez CV, Yanofsky R, Wu J, Pastore Y, Silva M, Lipton JH, Brossard B, Michon B, Abish S, Steele M, Sinha R, Belletrutti M, Breakey V, Jardine L, Goodyear L, Ghemlas I, Li H, Cada A, Dror Y. Genotyping Strategies For Fanconi Anemia Patients In Canada. Fanconi Anemia Symposium, Toronto, ON, September 18, 2015

4. Arbiv O, Zlateska B, Klaassen RJ, Fernandez C, Yanofsky R, Wu JK, Robitaille N, Silva M, Lipton JH, Brossard J, Michon B, Abish S, Steele M, Sinha R, Belletrutti MJ, Breakey VR, Jardine L, Goodyear L, Sung L, Wahala M, Ghemlas IA, Li H, Cada M, Dror Y. Molecular Analysis of Diamond Blackfan Anemia and Genotype-Phenotype Correlation: Experience from the Canadian Inherited Marrow Failure Registry. 57th American Society of Hematologists Annual Meeting and Exposition, Orlando, FL, December 5-8, 2015.

5. Dhanraj S, Waespe N, Wahala M, Enbar T, Zlateska B, Li H, Klaassen RJ, Fernandez C, Yanofsky R, Wu JK, Pastore YD, Silva M, Lipton JH, Brossard J, Michon B, Abish S, Steele M, Sinha R, Belletrutti MJ, Breakey VR, Jardine L, Goodyear L, Kofler L, Ghemlas IA, Cada M, Sung L, Shago M, Scherer SW, Dror Y. Copy Number Variants Underlying Inherited Bone Marrow Failure Syndromes. 57th American Society of Hematologists Annual Meeting and Exposition, Orlando, FL, December 5-8, 2015.

6. Arbiv OA. Zlateska B, Klaassen RJ, Fernandez C, Yanofsky R, Wu J, Silva M, Lipton JH, Brossard J, Michon B, Abish S, Steele M, Sinha S, Belletrutti MJ, Breakey VR, Jardine L, Goodyear L, Sung L, Wahala M, Ghemlas IA, Li H, Cada M, Dror Y. Molecular analysis of Diamond Blackfan anemia and genotype-phenotype correlation:Experience from the Canadian Inherited Marrow Failure Registry. Diamond Blackfan Anemia International Consensus Conference, Atlanta, GA, March 5-7, 2016