

Welcome to the  
2019 Patient & Family  
Conference  
Albuquerque, New Mexico  
March 30, 2019



# Welcome

## **George Atweh, MD**

Chief of Hematology/Oncology  
UNM Comprehensive Cancer Center  
Albuquerque, New Mexico





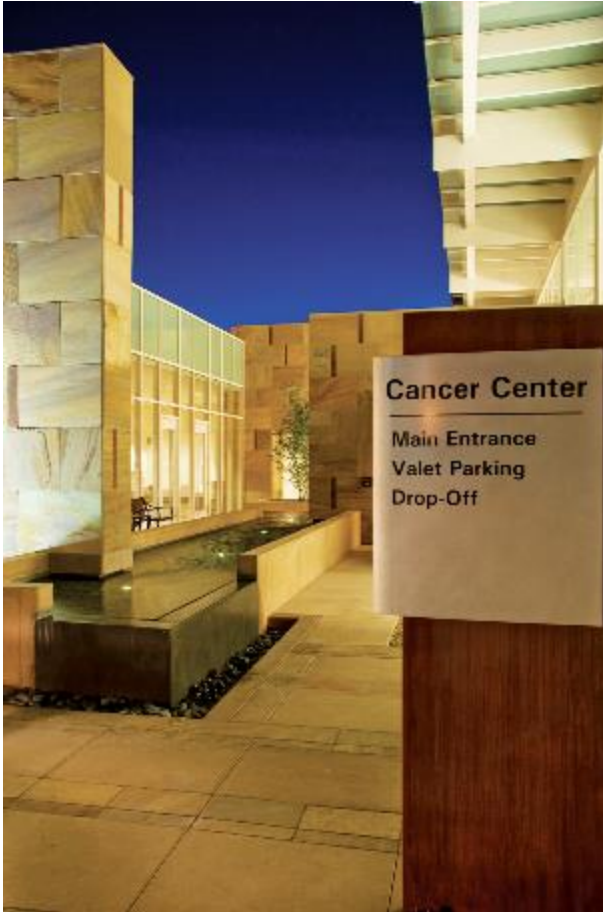
COMPREHENSIVE  
CANCER CENTER

**Welcome to the  
Patient and Family Conference on  
Bone Marrow Failure Diseases**

Albuquerque, New Mexico  
March 30, 2019



# UNM Comprehensive Cancer Center



- Official Cancer Center of the State of New Mexico
- Awarded the National Cancer Institute's Comprehensive Cancer Center designation
- One of only 49 cancer centers in the country to hold this designation.
- The only National Cancer Institute-designated Cancer Center in a 500-mile radius

# We Serve the People of New Mexico

- Full services for cancer diagnosis, treatment and survivorship
- 125 board-certified oncology physicians in every specialty
- More than 175 clinical trials offered through a statewide network
- 130 cancer research scientists working on the cancers that affect New Mexicans the most
- Training the next generation of cancer healthcare professionals

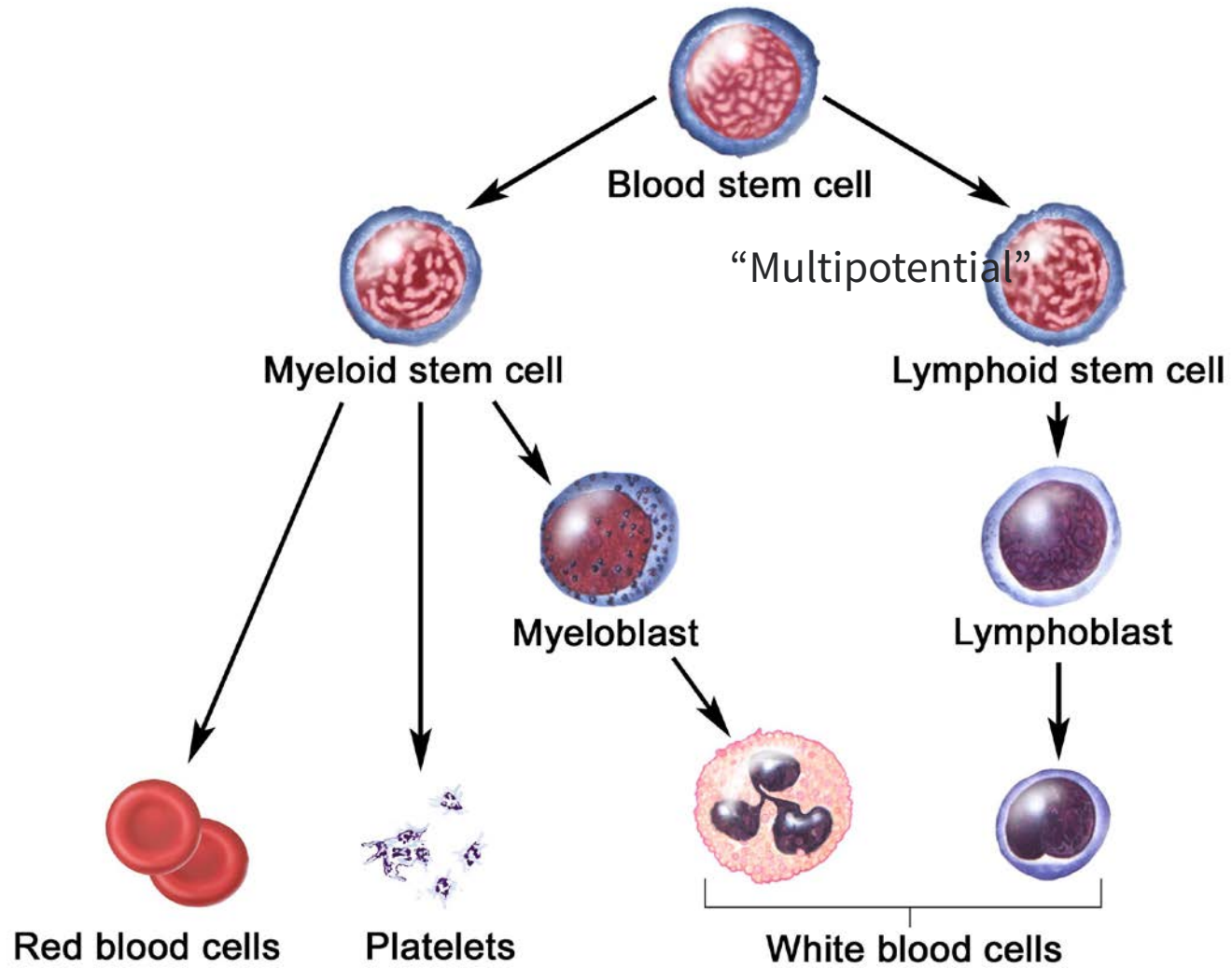
# Introduction to Bone Marrow Failure Disease

## Ronald Paquette, MD

Director, Cedars-Sinai Blood and  
Marrow Transplant Program  
Cedars-Sinai Medical Center  
Los Angeles, California



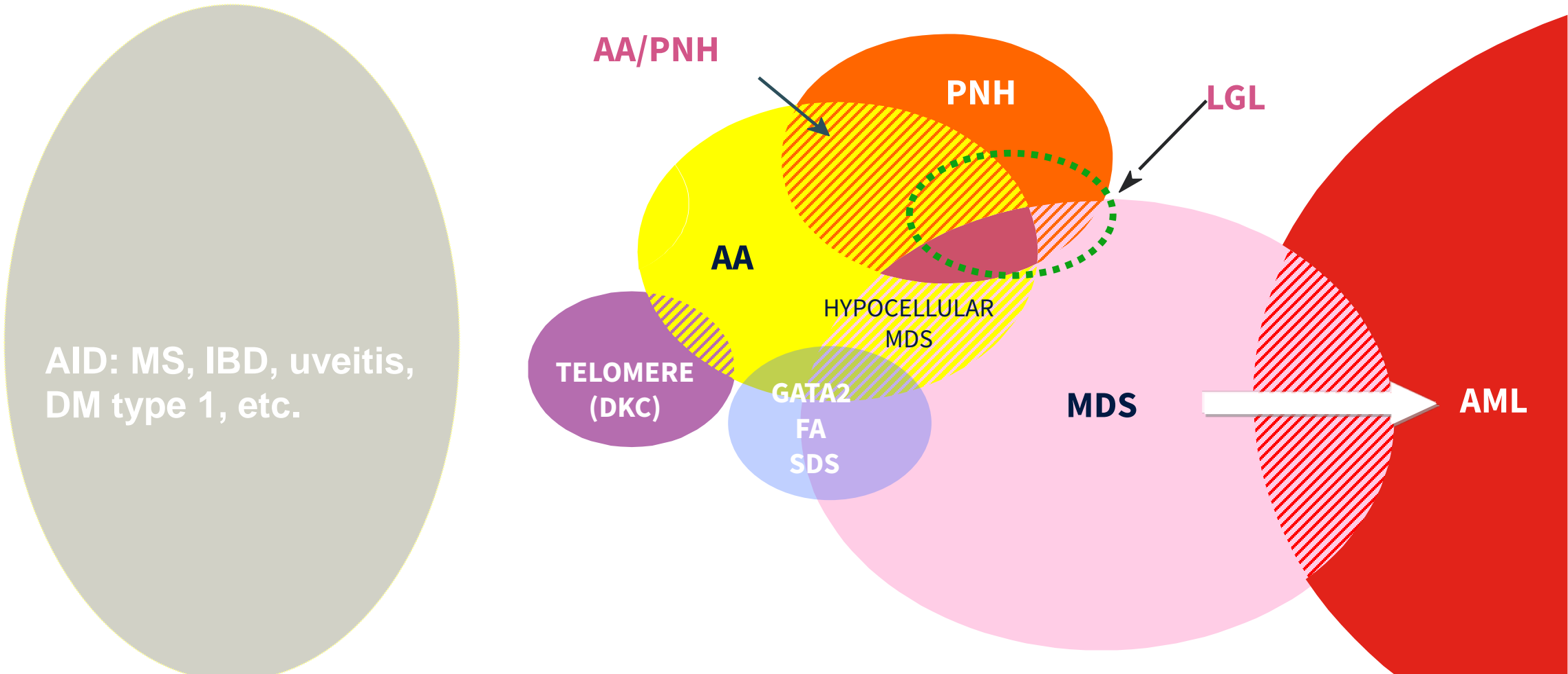
# Understanding Blood Cell Formation - "hematopoiesis"



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(Neutrophils most common)

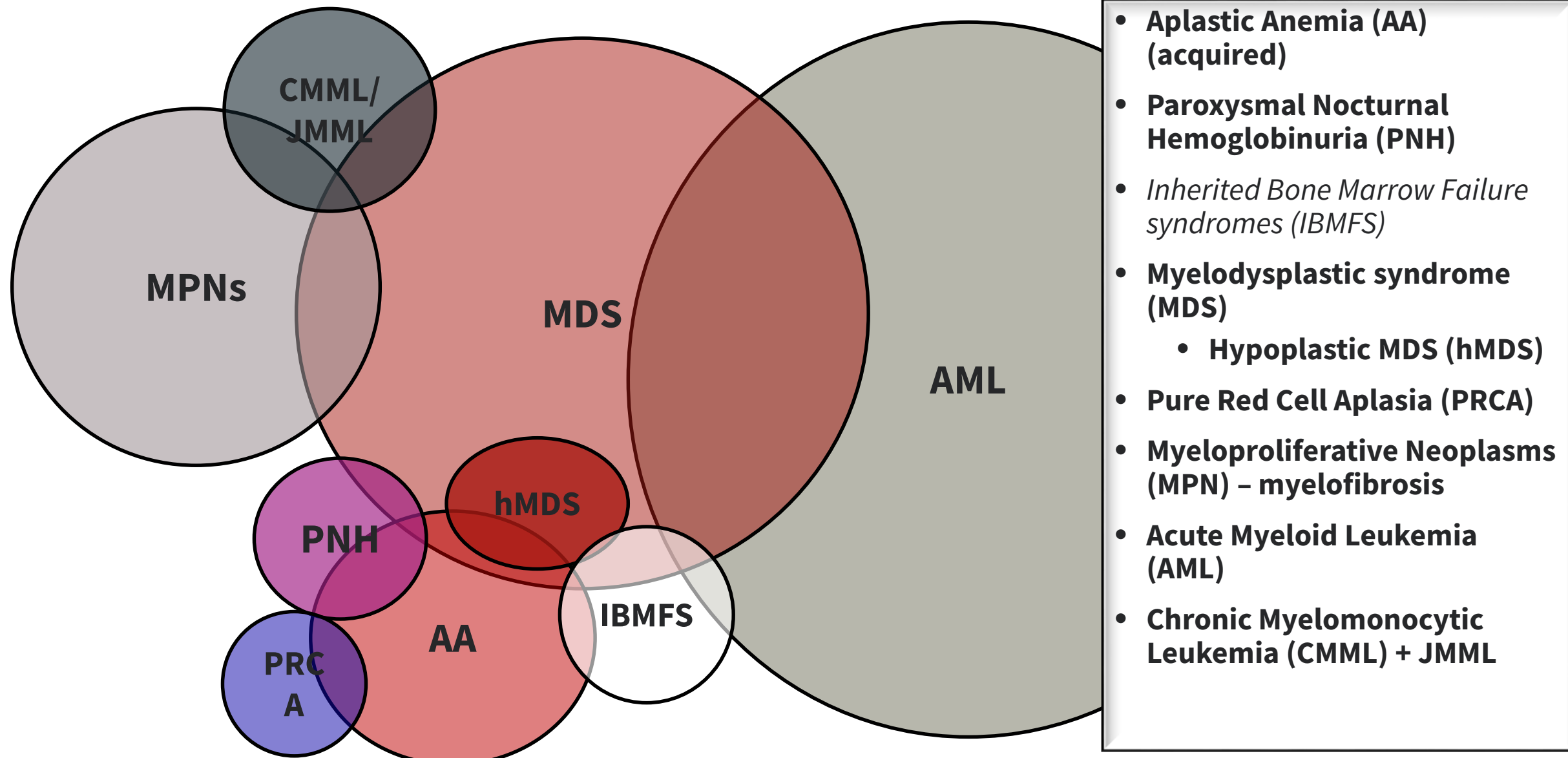
# Bone marrow failure syndromes



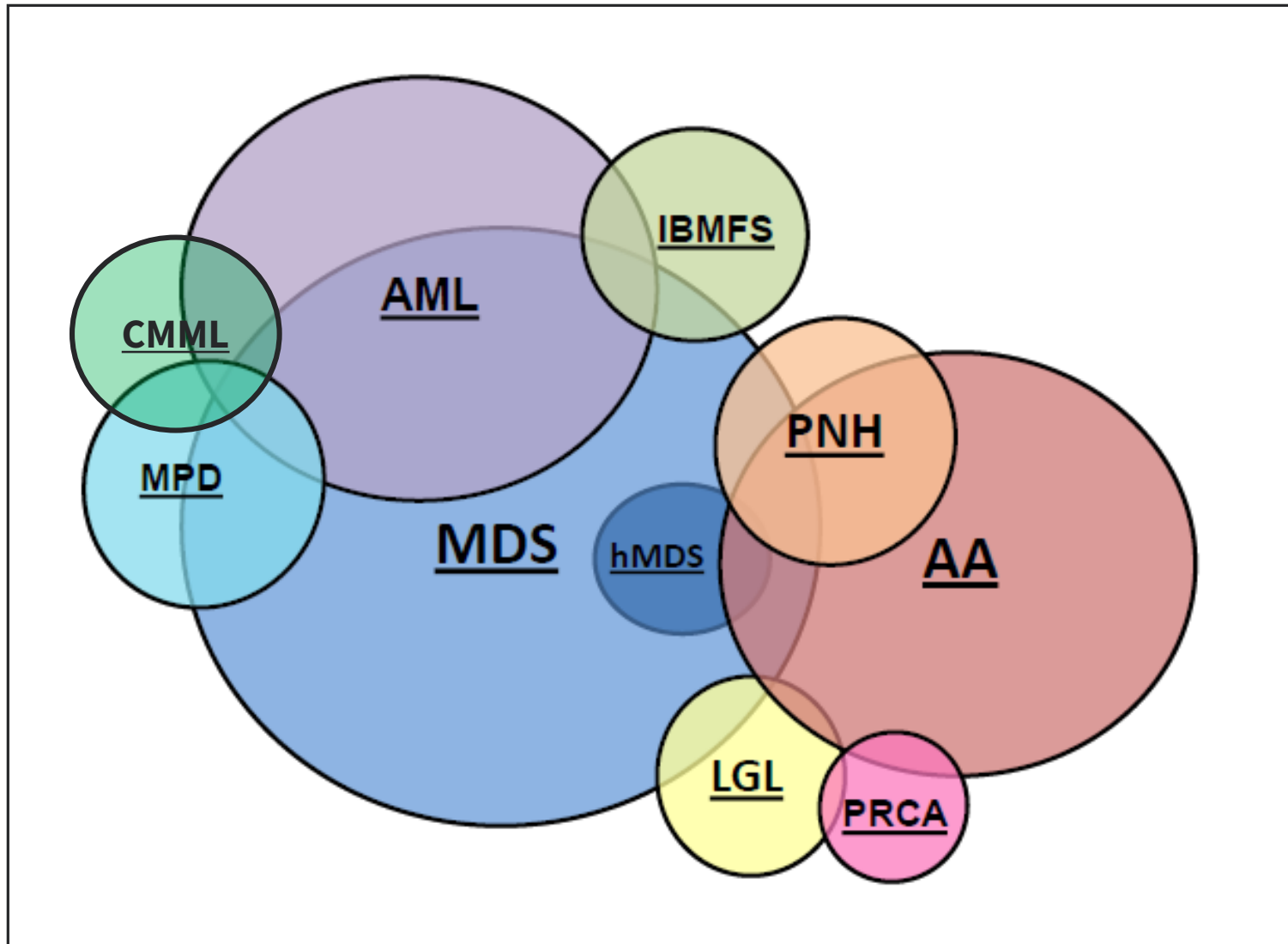
AA, aplastic anaemia; AID, autoimmune disease; AML, acute myelogenous leukemia; DKC, dyskeratosis congenita; IBD, inflammatory bowel disease; LGL, large granular lymphocyte leukemia; GATA2, Gata2 deficiency; FA, Fanconi anemia; SDS, Shwachman–Diamond syndrome; MDS, myelodysplastic syndrome; MS, multiple sclerosis; DM, diabetes mellitus; PNH, paroxysmal nocturnal hemoglobinuria  
Modified from Young NS, et al. *Blood* 2006;108:2509–19



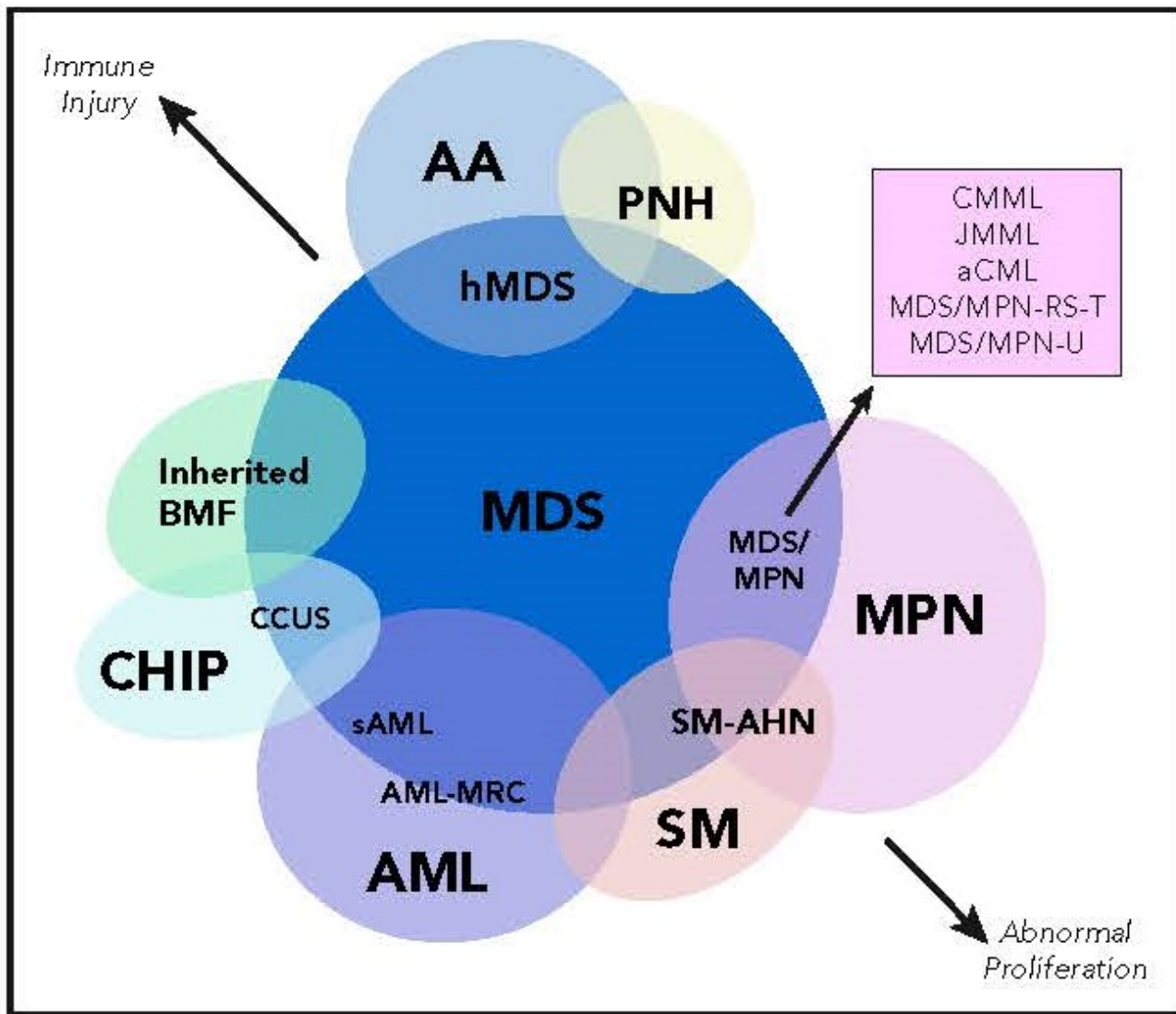
# Bone Marrow Failure: Overlapping Diseases



# Bone Marrow Failure: Overlapping Diseases



- **Aplastic anemia (AA) (acquired)**
- **Paroxysmal nocturnal hemoglobinuria (PNH)**
- **Inherited Bone Marrow Failure syndromes (IBMFS)**
- **Myelodysplastic syndrome (MDS)**
  - **Hypoplastic MDS (hMDS)**
- **Large Granular lymphocyte leukemia (LGL)**
- **Pure Red Cell Aplasia**
- **Myeloproliferative Neoplasms (MPN) – Primarily myelofibrosis**
- **Acute Myeloid Leukemia (AML)**
- **Chronic Myelomonocytic Leukemia (CMML) + JMML**



## ***MDS overlap disorders and diagnostic boundaries***

by Tiffany N. Tanaka, M.D.

and Rafael Bejar, M.D.  
 Division of Hematology and Oncology, Moores Cancer Center, University of California, San Diego, La Jolla, CA

Blood Journal  
 ([www.bloodjournal.org](http://www.bloodjournal.org)),  
 January 2019

**Figure 1. Diagram depicting myeloid disorders with clinical and genetic features shared with MDS and the degree to which they are driven by proliferative and immunologic mechanisms.**

# Let's Be Friends!



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Support is also provided by individual donors including patients, families, caregivers and health care professionals as well as through local fundraising events like March for Marrow!

