Paris Seminar for Patients & Caregivers: BSRI 2017— On the Path to a Cure







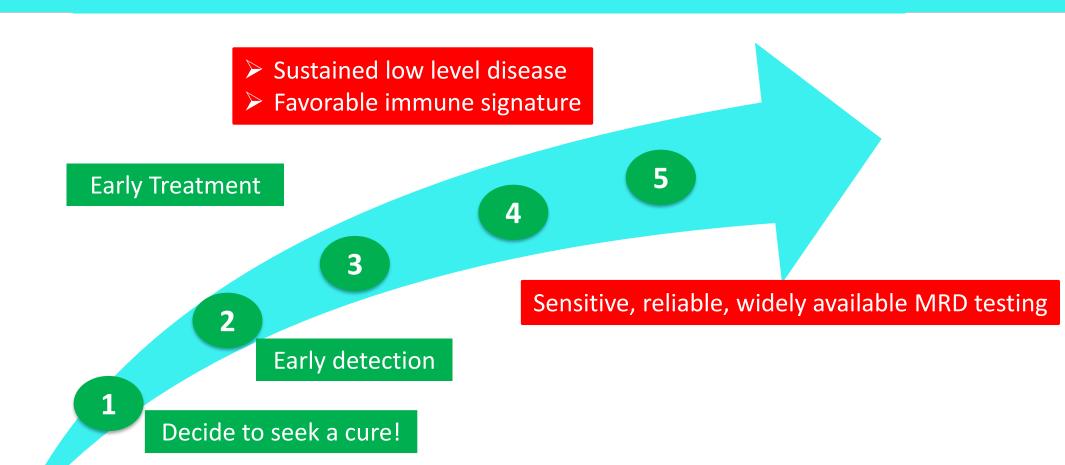








Black Swan: on the way to a cure

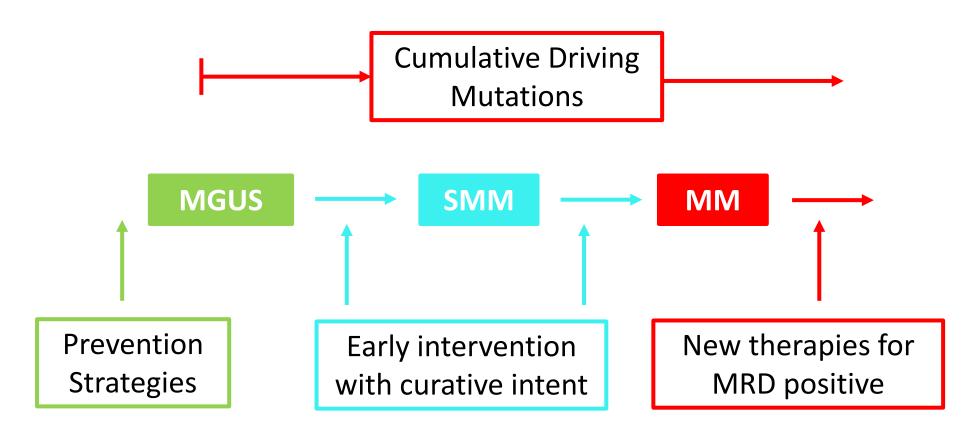








Black Swan Key Concepts



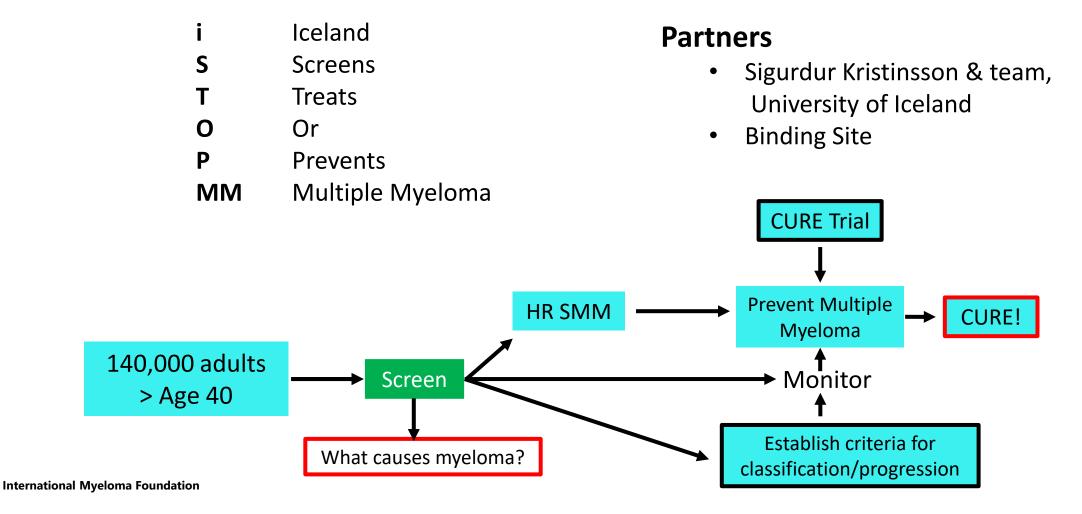












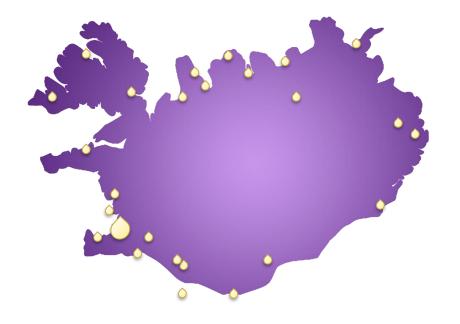


iSTOPMM: Iceland Project



iStopMM

Iceland Screens, Treats or Prevents Multiple Myeloma



All 35 laboratories in Iceland participate

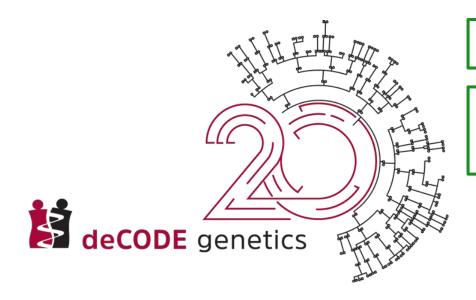




Importance of deCODE Project



deCODE's whole-genome sequencing project



2,600 Icelanders sequenced

DNA samples from 120,000 Icelanders all chip typed







iSTOPMM Lab and "Red Tube" 🍕

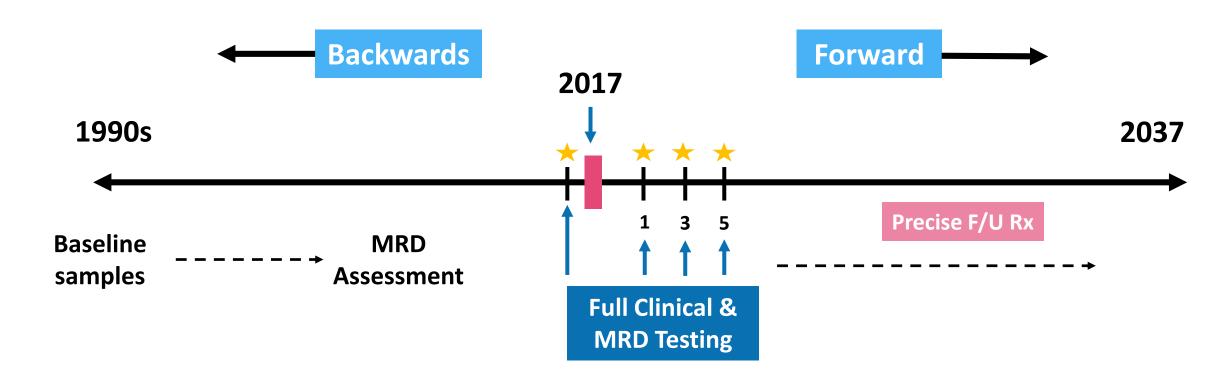








Understanding Cure



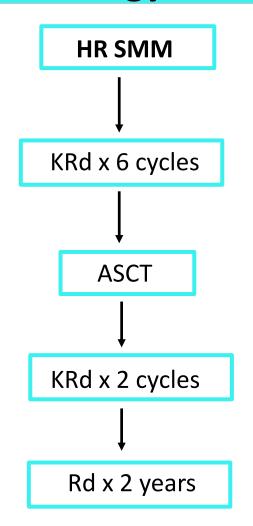






CESAR Trial

Curative Estrategy Smoldering Alto Risk



~50 patients accrued

Primary Endpoints

MRD Negative at

1 year

3 years

5 years

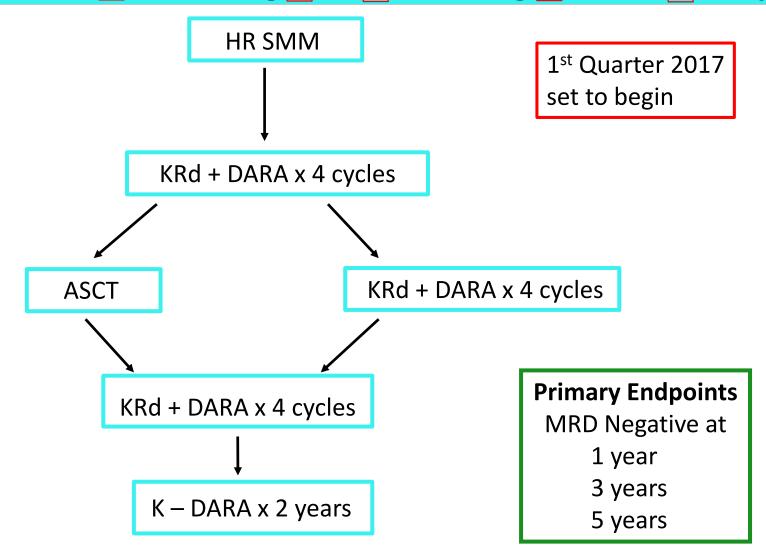






ASCENT Trial

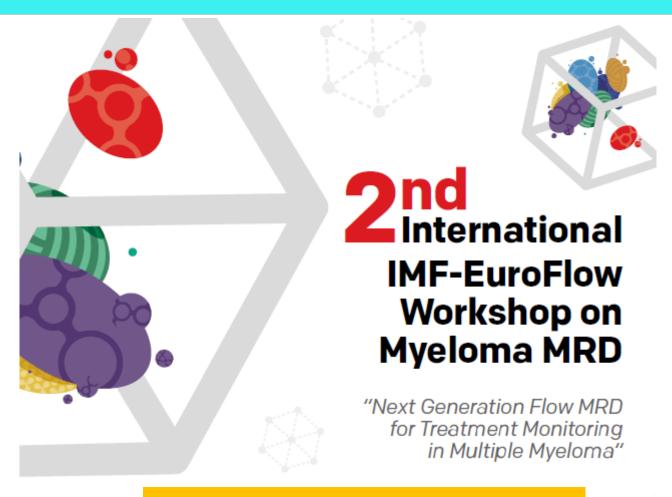
Aggressive Smoldering Cure Evaluating Novel Rx Transplant







Launch of the NGF Method

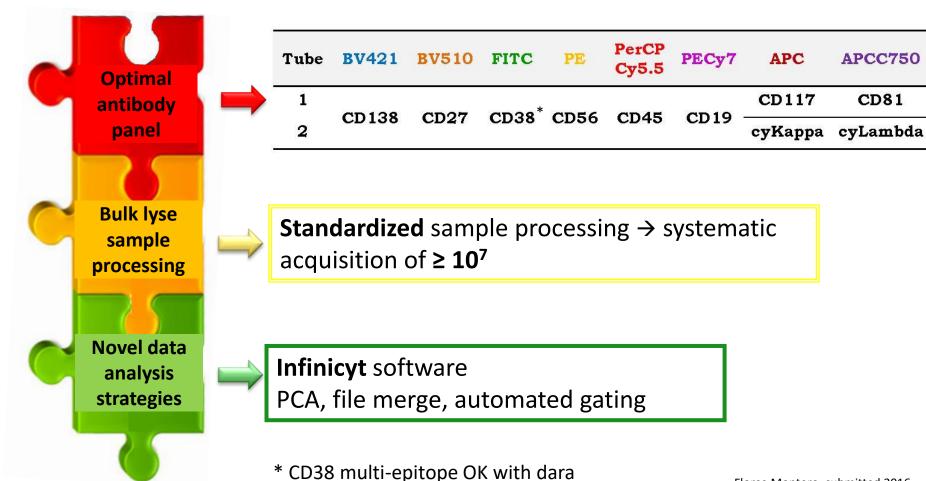








NEXT GENERATION FLOW (NGF): IMF-EuroFlow NGF-MRD Approach





Flores-Montero, submitted 2016

APCC750

CD81





NEXT GENERATION FLOW

Comparison with NGS

	NGF	NGS
Applicability	31/31 (100%)	27/31 (87%)
Positive	19/27 (70%)	13/27 (48%)

more sensitive

Less applicable

P < 0.001

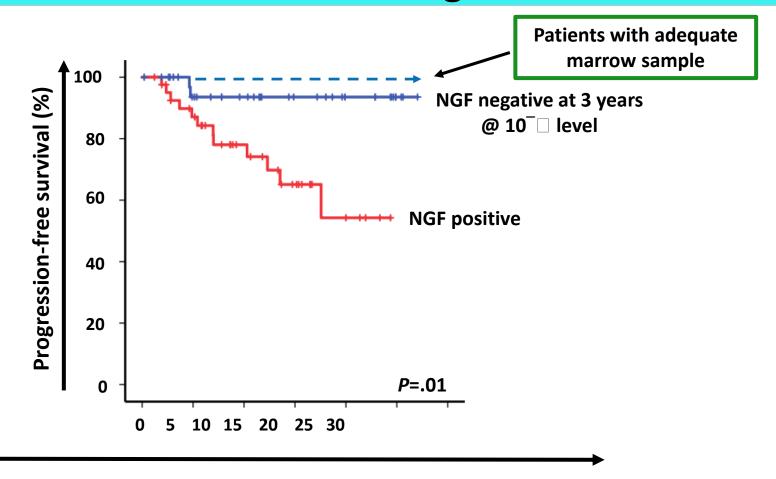
P < 0.05







NEXT GENERATION FLOW Excellent Outcome for MRD Negative Patients









How About a Blood Test?

Liquid biopsy

 NGF detects circulating myeloma cells in SMM and MM: molecular analyses are feasible

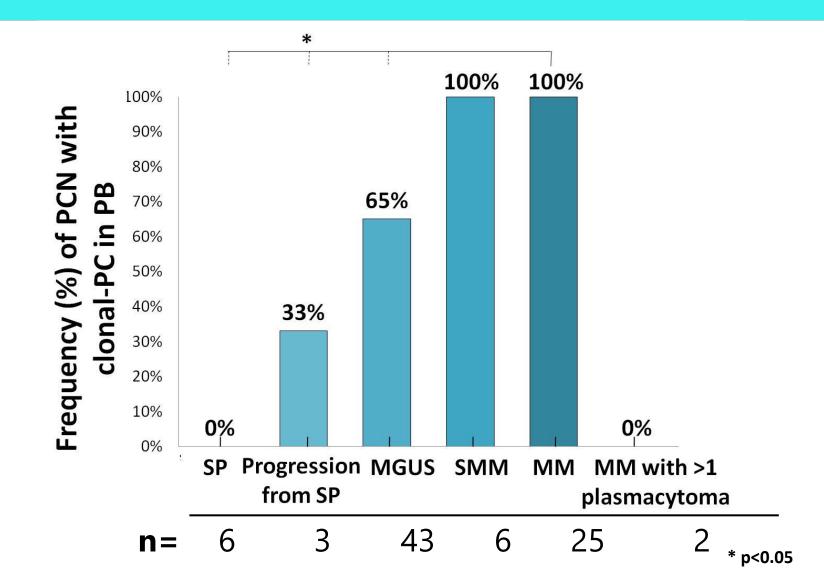
 Blood DNA also shows exact mutations and can guide treatment







NGF to Detect Blood Plasma Cells

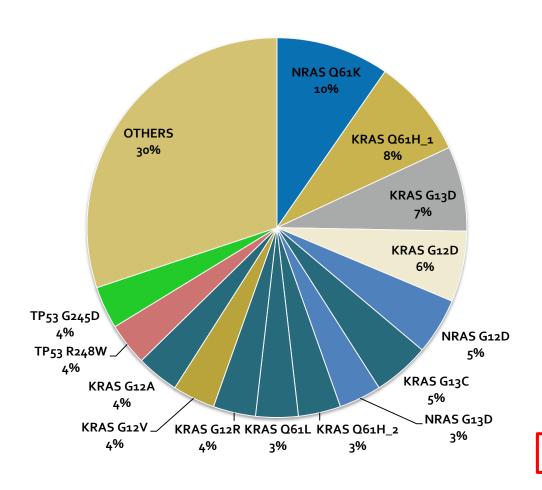




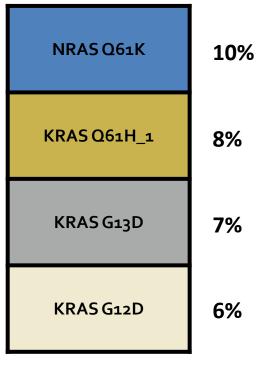




Blood DNA Mutations



Overall Distribution



N or K RAS = 62% total

Spencer, A et al. Leukemia (in press) 2016.







Additional Piece of the Puzzle



Make sensitive, standardized MRD testing available globally







Achieving a Global Standard for MRD Testing

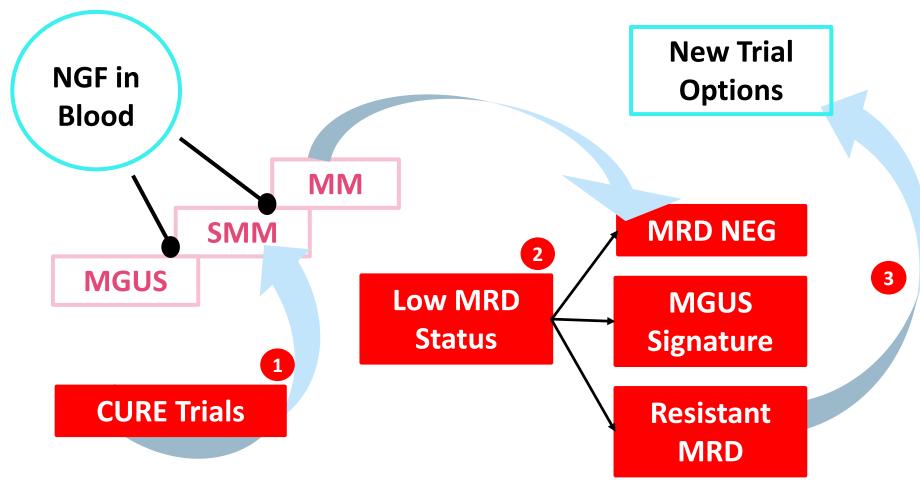


Over 50 researchers in 22 countries!





Current Opportunities

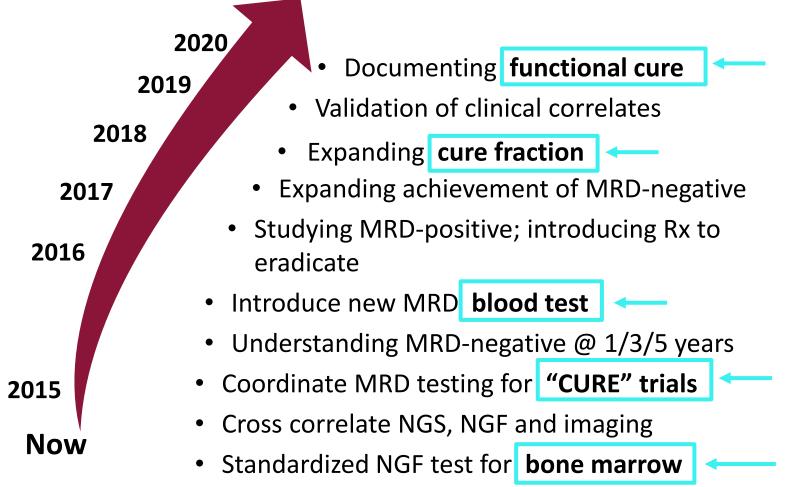








Forward Expectations and Plans

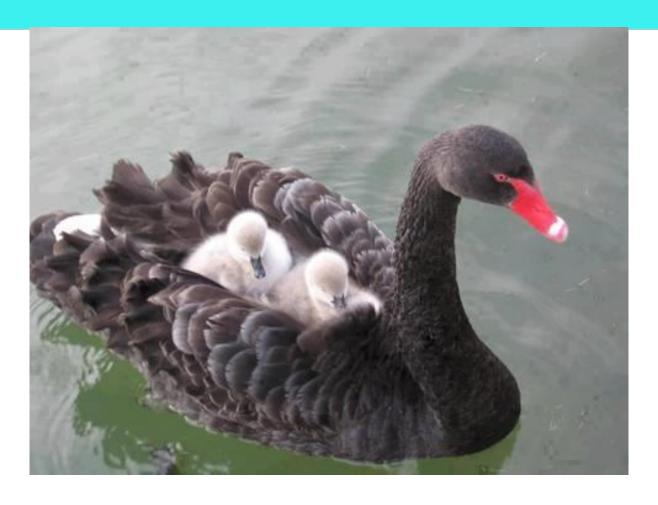








Ongoing New Projects









International Myeloma Foundation