

The Myeloid NGS Panels by **siParadigm** are: AML (19 genes), MDS (19 genes), MPN (16 genes), CMML (18 genes), and Pan-Myeloid (43 genes). These panels are designed to include genes that are recurrently mutated in myeloid malignancies. When used appropriately as a complement of a multidisciplinary diagnostic approach to myeloid malignancies, certain mutations included in these panels can inform:

- Diagnosis and subclassification
- Appropriate risk stratification/prognosis
- Patient management and selection of appropriate therapy
- Identification of markers or targeted therapy
- Disease monitoring and detection of relapse, evolution, and response to therapy
- Detection of minimal residual disease

AML Panel (19 Genes)				
<i>ASXL1</i>	<i>BRAF</i>	<i>CBL</i>	<i>CEBPA</i>	<i>DNMT3A</i>
<i>FLT3</i>	<i>GATA2</i>	<i>IDH1</i>	<i>IDH2</i>	<i>JAK2</i>
<i>KIT</i>	<i>KRAS</i>	<i>NPM1</i>	<i>NRAS</i>	<i>PTPN11</i>
<i>RUNX1</i>	<i>TET2</i>	<i>TP53</i>	<i>WT1</i>	

MDS Panel (19 Genes)				
<i>ASXL1</i>	<i>DNMT3A</i>	<i>ETV6</i>	<i>EVI1</i>	<i>EZH2</i>
<i>IDH1</i>	<i>IDH2</i>	<i>KDM6A</i>	<i>KRAS</i>	<i>NRAS</i>
<i>RPS14</i>	<i>RUNX1</i>	<i>SETBP1</i>	<i>SF3B1</i>	<i>SRSF2</i>
<i>TET2</i>	<i>TP53</i>	<i>U2AF1</i>	<i>ZRSR2</i>	

MPN Panel (16 Genes)				
<i>ASXL1</i>	<i>CALR</i>	<i>CSF3R</i>	<i>DNMT3A</i>	<i>EZH2</i>
<i>JAK2</i>	<i>JAK3</i>	<i>IDH1</i>	<i>IDH2</i>	<i>MPL</i>
<i>NRAS</i>	<i>SH2B3</i>	<i>SETBP1</i>	<i>SRSF2</i>	<i>TET2</i>
<i>TP53</i>				

CMML Panel (18 Genes)				
<i>ASXL1</i>	<i>CBL</i>	<i>CSF3R</i>	<i>DNMT3A</i>	<i>EZH2</i>
<i>JAK3</i>	<i>KRAS</i>	<i>MPL</i>	<i>NRAS</i>	<i>NOTCH1</i>
<i>RUNX1</i>	<i>SETBP1</i>	<i>SF3B1</i>	<i>SRSF2</i>	<i>TET2</i>
<i>TP53</i>	<i>U2AF1</i>	<i>ZRSR2</i>		

Pan-Myeloid Panel (43 Genes)				
<i>ASXL1</i>	<i>BRAF</i>	<i>CALR</i>	<i>CBL</i>	<i>CDK2NA</i>
<i>CEBPA</i>	<i>CSF1R</i>	<i>CSF3R</i>	<i>DNMT3A</i>	<i>ETV6</i>
<i>EVI1</i>	<i>EZH2</i>	<i>FBXW7</i>	<i>FGFR1</i>	<i>FGFR2</i>
<i>FGFR3</i>	<i>FLT3</i>	<i>GATA2</i>	<i>IDH1</i>	<i>IDH2</i>
<i>JAK2</i>	<i>JAK3</i>	<i>KDM6A/UTX</i>	<i>KIT</i>	<i>KRAS</i>
<i>MPL</i>	<i>MYD88</i>	<i>NOTCH1</i>	<i>NPM1</i>	<i>NRAS</i>
<i>PDGFRA</i>	<i>PTPN11</i>	<i>RPS14</i>	<i>RUNX1</i>	<i>SETBP1</i>
<i>SF3B1</i>	<i>SH2B3</i>	<i>SRSF2</i>	<i>TET2</i>	<i>TP53</i>
<i>U2AF1</i>	<i>WT1</i>	<i>ZRSR2</i>		