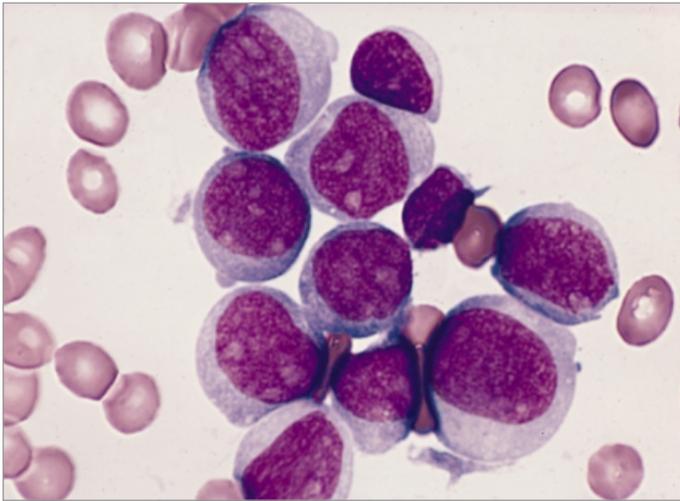


## BIO NEWS: GENE PANELS IN ONCO-HAEMATOLOGY



Cancer is characterised by uncontrolled cell proliferation. This results from specific acquired alterations of cellular DNA.

Molecular biology techniques, and most recently new generation sequencing of tumour genomes, have enabled the identification of genetic determinants that affect the sensitivity of cancer cells to anti-cancer treatments.

Genetic abnormalities need to be identified in haemopathy cases, in order to allow groups of patients with similar molecular characteristics to be offered treatments adapted to the severity of the disease and/or targeted on the genetic abnormalities found. The number of patients requiring NGS analysis is ever-increasing. Medical prescriptions guided by the molecular analysis of cancers represent a far more precise medicine than conventional chemotherapy

and by extension, qualifies them as «personalised medicine» or «precision medicine.» The continual arrival of new targeted treatments foreshadows a profound evolution of clinical practice in Onco-Haematology.

The molecular analyses involved in this precision medicine impose major technological and organisational changes in the laboratories working on them.

Scientific societies have determined lists of clinically relevant genes by subtype of malignant haemopathy, the sequencing of which will be included in diagnostic reporting.

Today, Laboratoire Cerba which is at the forefront of innovation in the field of specialised biology at its Saint-Ouen-L'Aumône site, possesses the technology, technical, bioinformatics and medical expertise to carry out very high-throughput sequencing analyses in Onco-Haematology, in accordance with the recommendations of national and international scientific and medical societies.

Working in close cooperation with clinicians, Laboratoire Cerba thus joins the limited circle of laboratories capable of carrying out these analyses, bringing access to precision medicine to a greater number of patients.

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Panels	Myeloproliferative Neoplasms (MPN)	Myelodysplastic Syndrome (MDS)	Acute Myeloid Leukemia (AML)	Comprehensive Myeloid Panel
Number of genes studied	16	32	35	41
Type of sample	2 mL of EDTA bone-marrow or 2x5 mL of EDTA whole blood			
Clinical indications	Fulfil the Onco-Haematology requisition form			
Maximum laboratory time	20 working days			
Genes involved	ASXL1 (12)  CALR (9) CBL (8+9)  CSF3R (14 to 17)  CUX1 (full)  EZH2 (full)  JAK2 (12 and 14)  KIT D816 & other (2, 8 to 14 and 17)  MPL (4, 10, 12)  PHF6 (full)  SETBP1 [4 (partial AA 400 to 950)] SF3B1 (11 to 18) SH2B3 (full)  TET2 (full) TP53 (full)  ZRSR2 (full)	ASXL1 (12) BCOR (full) BCORL1 (full) BRAF V600E (15)  CBL (8+9)  CSF3R (14 to 17) CSNK1A1 (full) CUX1 (full) DNMT3A (full)  EZH2 (full)  GATA1 (2 and 3) GATA2 (full) GNAS (8 and 9) IDH1 (4) IDH2 (4) JAK2 (12 and 14)  KRAS (2 and 3) MPL (4, 10, 12) NPM1 (11) NRAS (2 and 3) PHF6 (full)  RAD21 (full) RUNX1 (full) SETBP1 [4 (partial AA 400 to 950)] SF3B1 (11 to 18)  SRSF2 (1) STAG2 (full) TET2 (full) TP53 (full) U2AF1 - U2AF35 (2 and 6) WT1 (full) ZRSR2 (full)	ASXL1 (12) BCOR (full) BCORL1 (full) BRAF V600E (15)  CBL (8+9) CEBPA (full) CSF3R (14 to 17)  CUX1 (full) DNMT3A (full) ETV6 (full)  FLT3 (14 + 15 +20) GATA1 (2 and 3) GATA2 (full)  IDH1 (4) IDH2 (4) JAK2 (12 and 14) KDM6A (full) KIT D816 & other (2, 8 to 14 and 17) KRAS (2 and 3)  NPM1 (11) NRAS (2 and 3) PHF6 (full) PTEN (5 to 7) PTPN11 (3 to 13) RAD21 (full) RUNX1 (full) SETBP1 [4 (partial AA 400 to 950)] SF3B1 (11 to 18)  SRSF2 (1) STAG2 (full) TET2 (full) TP53 (full) U2AF1 - U2AF35 (2 and 6) WT1 (full) ZRSR2 (full)	ASXL1 (12) BCOR (full) BCORL1 (full) BRAF V600E (15) CALR (9) CBL (8+9) CEBPA (full) CSF3R (14 to 17) CSNK1A1 (full) CUX1 (full) DNMT3A (full) ETV6 (full) EZH2 (full) FLT3 (14 + 15 +20) GATA1 (2 and 3) GATA2 (full) GNAS (8 and 9) IDH1 (4) IDH2 (4) JAK2 (12 and 14) KDM6A (full) KIT D816 & other (2, 8 to 14 and 17) KRAS (2 and 3) MPL (4, 10, 12) NPM1 (11) NRAS (2 and 3) PHF6 (full) PTEN (5 to 7) PTPN11 (3 to 13) RAD21 (full) RUNX1 (full) SETBP1 [4 (partial AA 400 to 950)] SF3B1 (11 to 18) SH2B3 (full) SRSF2 (1) STAG2 (full) TET2 (full) TP53 (full) U2AF1 - U2AF35 (2 and 6) WT1 (full) ZRSR2 (full)