

**Society of Hematopathology
2017 Workshop
Concluding Remarks**

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Number of cases received

- 350 cases received from 103 institutions
 - United States, Turkey, Taiwan, Switzerland, Sweden, Spain, Korea, Italy, Germany, France, Canada
- 412 attendees

Diagnosis	Number
Acute Myeloid Leukemia	62
Myelodysplastic Syndrome	34
B-Lymphoblastic Leukemia	29
Follicular Lymphoma	16
Chronic Myeloid Leukemia	14
Chronic Myelomonocytic Leukemia	10
Clonal Cytopenia of Undetermined Significance	9

93 genes mutated in at least 1 workshop cases

ABL1, ANKRD26, ASXL1, ATRX, BCL10, BCOR, BCORL1, BLM, BRAF, BRIP1, CALR, CARD11, CBL, CCND1, CCND3, CDKN2A, CDKN2A/B, CEBPA, CIITA, CREBBP, CRLF2, CSF3R, CTCF, CTLA4, CXR4, DDX41, DNMT3A, ELANE, EP300, ETV4, ETV6, EZH2, FBXW7, FLT3, FLT3-ITD, FLT3-ITD, G6PC3, GATA2, HIST1H3I, ID3, IDH1, IDH2, IKZF1, IL7R, JAK1, JAK2, JAK3, KDM6A, KIT, KMT2D, KRAS, MAP2K1, MLL, MPL, MYD88, NF1, NOTCH1, NPM1, NRAS, PAX5, PHF6, PIK3R1, PTPN11, PTPRT, RAF1, RB1, RBM8A, RET, RHOA, RUNX1, SAMD9, SETBP1, SETD2, SF3B1, SH2B3, SH2D1A, SHOC2, SMC3, SOCS1, SRSF2, STAG2, STAT3, STAT6, SUZ12, TET2, TNFAIP3, TP53, U2AF1, UBR5, UNX1, WT1, ZMYM3, ZRSR2

Most commonly mutated genes in workshop cases

TET2	43	KRAS	18	FLT3-ITD	9	MPL	7
ASXL1	30	GATA2	17	IDH1	9	SETBP1	6
RUNX1	28	NRAS	14	MYD88	8	STAG2	6
JAK2	26	SF3B1	12	NPM1	8	FLT3-TKD	5
TP53	24	WT1	12	PTPN11	8	NOTCH1	5
DNMT3A	20	CSF3R	10	BRAF	7	U2AF1	5
SRSF2	20	IDH2	10	IKZF1	7		

Future directions

- Molecular genetic findings will be increasingly important in the classification of hematolymphoid neoplasms and assessing the contribution of inherited genetic background in cancer predisposition.
- NGS-based panel testing is becoming the method of choice as more genes need to be tested at once.
- Hematopathologists and molecular pathologists are equal partners to improve this process.
- Synthesis of genetic information into an integrated report is critical for diagnosis, therapy and prognosis

Acknowledgments

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- Society for Hematopathology
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- Nilda Barrett (ASCP)

See you in Edinburgh!



Society for Hematopathology



EUROPEAN ASSOCIATION
FOR HAEMATOPATHOLOGY



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EAHP2018 19th MEETING OF THE EUROPEAN ASSOCIATION
FOR HAEMATOPATHOLOGY