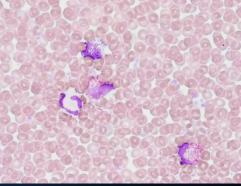
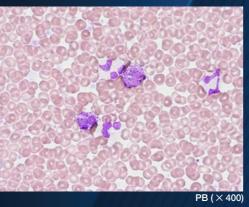
# Celltac G+ MEK-9200

## Case 3 Basophilia

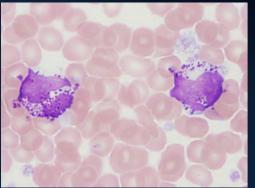
A female patient, aged in her 50s with untreated polycythemia vera (JAK2 V617F positive), undergoing follow-up observation.

#### Blood smear (May-Giemsa staining)

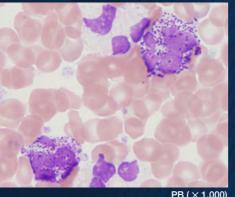




PB ( × 400)



PB (×1,000)



PB (×1,000)

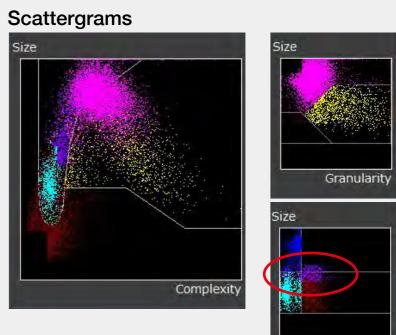
#### Visual differential counts

0.0 Blast Promyelo 0.0 0.0 Myelo 0.0 Meta Band 1.5 Seg 81.5 5.5 Eosino Baso 3.0 Mono 1.5 7.0 Lympho At-Ly 0.0 NRBC 0.0 0.0 Other

### Celltac Data ·

#### lumerical results

Numerical results			
VBC	34.07	Н	10³/µL
RBC	7.41	Н	10º/µL
IGB	15.03		g/dL
ICT	49.0		%
ACV	66.1	L	fL
ЛСН	20.3	L	pg
ЛСНС	30.7	L	g/dL
RDW-CV	17.6	Н	%
RDW-SD	46.5		fL
PLT	849.9	Н	10³/µL
РСТ	0.71	Н	%
ЛРV	8.4		fL
PDW	20.1	Н	%
P-LCR	38.8		%
P-LCC	329.8	Н	10³/µL
١E	25.47	*	10³/µL
Y	2.75	*	10³/µL
ЛО	1.50	*	10³/µL
0	3.11	*	10³/µL
3A	1.24	*	10³/µL
NE%	74.73	*	%
Y%	8.08	*	%
/O%	4.41	*	%
0%	9.14	*	%
BA%	3.64	*	%
RET	0.1252		10 <sup>6</sup> /µL
RET%	1.69		%
RF	14.1		%
.FR	85.9	L	%
/IFR	9.2		%
IFR	4.9	Н	%



## **Histograms**



RNF

### Flags

Morphological Flags Numerical Flags Blast Immature Granulocyte Left Shift Ne-Eo Interference

Leukocytosis Neutrophilia Monocytosis Eosinophilia Basophilia Erythrocytosis Microcvtosis Thrombocytosis

### Explanation of scattergram/histogram

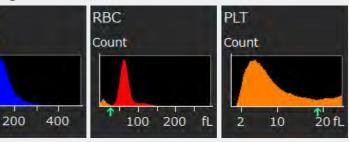
A number of plots appeared in the basophilic area(O) on the MO-BA scattergram, with the indication, "Basophilia" flag.

#### **Explanation of case**

A complete blood count revealed an elevated number of white blood cells, red blood cells, and platelets. A visual, white blood cell differential count showed an increase in basophils to 3.0 %. This was considered to be due to the polycythemia vera. Smear samples indicated an increase in mature basophils. Some basophils with few granules were observed because the granules of basophils are water soluble. Large platelets were also observed in some places.

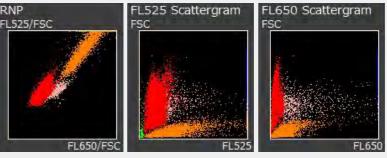
Data provision and supervision, Department of Clinical Laboratory, The University of Tokyo Hospital Masahiro Jona





Granularity

#### **RET Scattergrams**



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