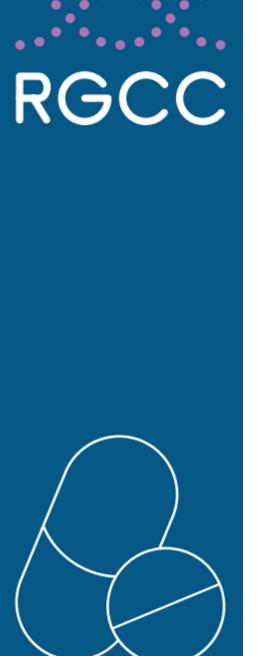
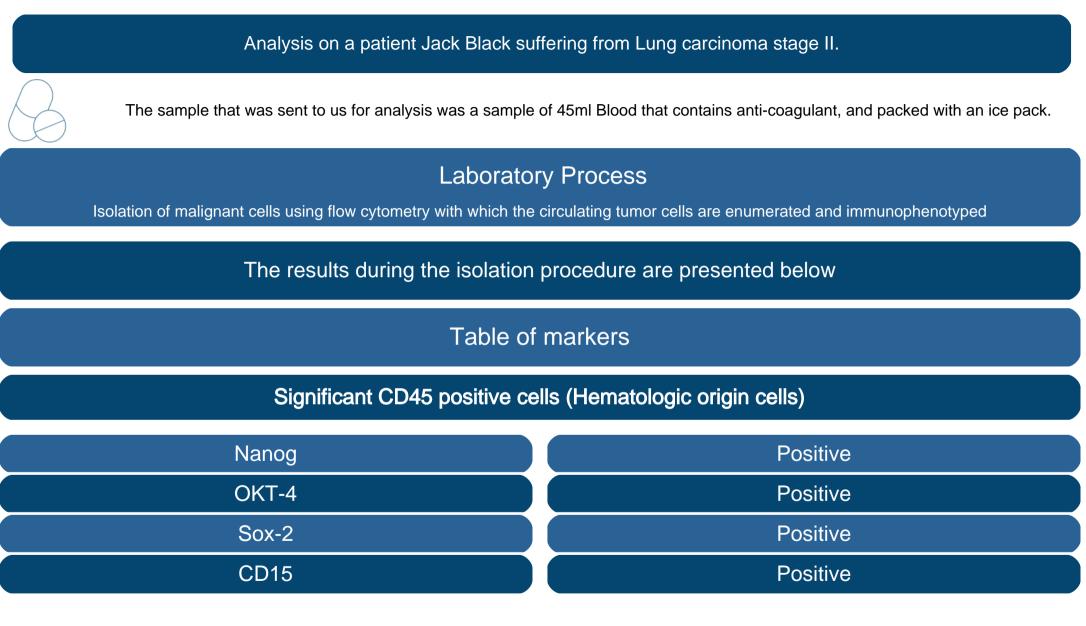
# Melanoma Oncotrail RGCC

Results





Ioannis Papasotiriou M.D., PhD Head of molecular medicine dpt of R.G.C.C -Research Genetic Cancer Centre International GmbH Baarerstr 95, 6301, Zug, Switzerland Tel: +41-41-7250560 Website: www.rgcc-group.com E-mail:medical@rgcc-genlab.com

#### Page 3/5

## CD45 negative cells (non Hematologic origin)

| Nanog | Negative                  |
|-------|---------------------------|
| OKT-4 | Negative                  |
| Sox-2 | Negative                  |
| CD63  | Negative                  |
| EpCam | Negative                  |
| CD133 | Negative                  |
| c-MET | Negative                  |
| CD31  | Positive (25% of all CTC) |
| PanCK | Dim                       |

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### Index of markers

| CD133, Sox-2*, OKT-4*, Nanog* | Tumor stem cell marker  |
|-------------------------------|---|
| c-MET*                        | Membrane antigen that regulates the mesenchymal to epithelial transition        |
| CD34*                         | Hematological stem cell and blast cell marker, Epithelioid                      |
| CD45                          | Hematologic origin cell   |
| BCR-ABL, CD30                 | Hematologic malignancy marker   |
| CD44                          | Tumor stem cell marker  |
| CD15                          | Hematological malignancy marker   |
| CD19                          | (CD45 negative cells – Non Hematologic origin cells) Hematological malignancy   |
|                               | (CD45 positive cells – Hematologic origin cells) lung neuroendocrine malignancy |
| CD31                          | Endothelial cell membrane antigen   |
| CD63                          | Melanoma cell marker  |
| CD99                          | Sarcoma marker  |
| EpCam                         | Epithelial origin marker  |
| MUC-1                         | Breast cancer antigen   |
| PSMA                          | Prostate specific cancer stem cell membrane antigen                             |
| VHL mut                       | Renal carcinoma marker  |
| panCK                         | Epithelial origin cell marker   |

\* Significant markers

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The final results after the isolation procedure are presented below:

We notice that after isolation procedure there are remaining malignant cells.

The concentration of these cells was isolated 4.2 cells/ml, SD +/- 0.3cells.

Index of circulating cells number

If over limit: Advanced or progression of disease. If less than limit: Early disease or disease is responding to a treatment plan.

| Breast Cancer   | < 5 cells / 7.5 ml              |
|---|---------------------------------|
| Prostate Cancer   | < 20 cells / ml                 |
| Sarcoma   | < 15 cells / 6.5 ml             |
| Colon Cancer  | < 5 cells / ml                  |
| Lung Cancer   | ( Lc=0, r=0.99):< 10 cells / ml |
| All cancer types other than those listed above should be < 5 cells / ml |                                 |

#### Disclaimers

\*This test will NOT DETECT cancers of the brain or other cancers that have been "encapsulated" by the body, not releasing circulating tumor or stem cells (CTC, CSC) into the blood stream or if any of these cells are dormant. We still recommend the use of biopsy, blood markers and/or various scans with this test when cancer is suspected or known to exist.No test is 100% accurate.

\*The methodology has a sensitivity of 86,2% and specificity of 83,9%

Sincerely,

Ioannis Papasotiriou MD., PhD Head of molecular medicine dpt. of R.G.C.C.-Research Genetic Cancer Centre International GmbH

Patient Name: Jack Black