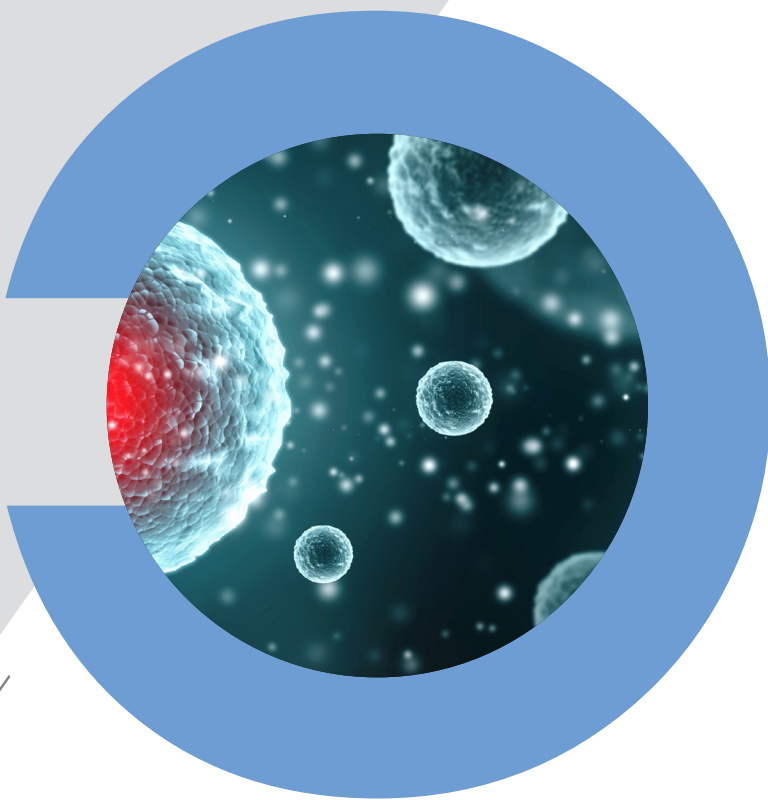


chemo-scaleTM

Minimal-invasive in-vitro
chemosensitivity testing



For professional use only



About chemo-scale™

Cancer is an extremely heterogenous disease. Chemotherapies do not respond in the same way in every patient. chemo-scale™ uses a blood sample to examine the effectiveness of chemotherapies on an individual patient. The probability of successful therapy can be significantly increased and treatment failure can largely be avoided. However, conventional 'Standard of Care' approach does not take into consideration the overall architecture of a particular patient's tumour. It is important that the characteristics of the tumour are studied comprehensively before deciding the treatment plan, should be personalised to individual patients and their disease.

DCG has proven the clinical relevance of chemo-scale™ with trials comprising more than 5.000 patients.

chemo-scale™ is an analysis of tumour cells to provide drug efficacy and resistance guidance for chemotherapy.

With chemo-scale™ analysis, we minimise the risks of therapy failure for the patient - saving money, reducing 'trail and error' and most importantly, intensifying the attack on the patient's cancer, not the patient.

- chemo-scale™ directly tests the effect of chemotherapy / anti-cancer drugs on the patient's tumour cells. It helps to customise the treatment plan according to sensitivity and resistance patterns of tumour cells.
- With this information, the physician and the patient can choose the most effective chemotherapy from the available options.
- chemo-scale™ is performed on cells taken from a fresh biopsy sample of the tumour or circulating tumour associated cells (C-ETACs) isolated from peripheral blood. A control analysis is included.
- Analysing the chemosensitivity pattern of circulating tumour associated cells and tumour tissue derived cells of the same patient, we observed a concordance of 93.7%.

chemo-scale™ is particularly recommended for cancer patients ...



... who are newly diagnosed with a solid tumour such as stomach, pancreas, breast etc.



... where cancer has relapsed

chemo-scale™ Analysis Unravels

- It reveals cytotoxic chemotherapy drug efficacy.
- It also reveals hierarchy of these drug choices.
- Analysis is carried out for single drugs and additional drug combinations on request.
- chemo-scale™ is unique in its methodology and has extensive clinical evidence.

FAQ's



What is chemo-scale™?

chemo-scale™ is a powerful analysis performed on live tumour cells. It reveals which drugs or combinations will kill the cancer of an individual patient more effectively.



How can chemo-scale™ help?

Not all drugs work the same on all patients. Some drugs may not prove beneficial for the patient and waste valuable time and resources at a critical point in treatment. With chemo-scale™ there is a way to know how effective the chemotherapy will be, before starting the treatment. In clinical trials, comparing the efficacy of chemoresistency profile with the radiological response focussing on disease progression, we found a concordance of 87.0%.



How is chemo-scale™ different from other pre-treatment cancer tests?

- Commonly available molecular tests provide information mainly about targeted therapy drugs, but cytotoxic chemotherapy is the most common first therapy.
- chemo-scale™ evaluates the actual response of cancer cells to cytotoxic chemotherapy drugs.
- The key difference between other tests and chemo-scale™ is, we use a different approach to identify the relevant cells in a short-term culture, thus enabling accurate advise.
- It is clinically validated with more than 5.000 patients.



Sample requirement:

15–20 ml blood in EDTA tubes

Turn Around Time (TAT):

8 - 10 days from receipt of the sample

Relevant publications

- Akolkar, D.B., Crook, T., Page, R. et al. Liquid Biopsies to Enable Non-Invasive Real-Time Functional Chemoresistance Profiling in Solid Organ Cancers. *Journal of Clinical Oncology* 05/2020. 38(15_suppl). p.3525. DOI: 10.1200/JCO.2020.38.15_suppl.3525.
- Limaye, S., Crook, T., Page, R., Patil, D. et al. Effect of Previous Chemotherapy Treatments on Circulating Tumor-Associated Cells in Colorectal Cancer *Journal of Clinical Oncology* 02/2020. 38(4_suppl). p.194. DOI: 10.1200/JCO.2020.38.4_suppl.194
- Akolkar, D.B., Patil, S., Mhase, V. et al. In Vitro Chemo Resistance Profiles of Circulating Glial Cells Replicate Chemo Characteristics of Tumor Tissue. *Neuro Oncology* 11/2019. 21(6_suppl). p.vi135. DOI: 10.1093/neuonc/nz175.567
- Akolkar, D.B., Patil, D., Crook, T. et al. Circulating Tumor Associated Cells in Head and Neck Cancers are Resistance Educated per Previous Chemotherapy Treatments. *International Journal of Radiation Oncology* 04/2020. 106(5). p.1121. DOI: 10.1016/j.ijrobp.2019.11.375
- Crook, T., Akolkar, D.B., Patil, S. et al. Abstracts P6-10-11: In Vitro Chemo Interrogation of Viable Circulating Tumor Associated Cells from Breast Cancer Patients. *AACR Cancer Research* 02/2020. DOI: 10.1158/1538-7445.SABCS19-P6-10-11
- Akolkar, D.B., Limaye, S., Patil, D. et al. Circulating Tumor-Associated Cells in Lung Cancers are Resistance-Educated per Previous Chemotherapy Treatments. *Journal of Thoracic Oncology* 01/2020. 15(2_suppl). p.37. DOI: 10.1016/j.jtho.2019.12.100
- Crook, T., Gaya, A., Page, R. et al. Clinical utility of circulating tumor-associated cells to predict and monitor chemo-response in solid tumors. *Cancer Chemother Pharmacol* 11/2020. DOI: 10.1007/s00280-020-04189-8

211111-BTC-EN-WM



Nordic Laboratories

Nordic Laboratories

@nordiclaboratories

Nordic Laboratories & dnalife

Head Office:

Nygade 6, 3.sal
1164 Copenhagen K
Denmark
Tlf: +45 33 75 10 00

South Africa Office:

North Block, Thrupps Centre
204 Oxford Rd, Illove 2196
South Africa
Tel: +27 (0) 11 268 0268

UK Office:

11 Old Factory Buildings, Stonegate
East Sussex, TN5 7DU
United Kingdom
Tel: +44 (0)1580 201 687

info@nordic-labs.com
www.nordic-labs.com