

# chemo-soale<sup>TM</sup>

EFFICACY AND RESISTANCE GUIDANCE FOR CHEMOTHERAPY



## What

Non-Invasive in vitro Chemosensitivity on Circulating Tumor Associated Cells (C-TACs) to evaluate Response / Resistance to chemotherapy drugs.

## For Whom

All patients who have been advised chemotherapy at any stage of the disease.

## Why chemo-scale?

chemo-scale is an analysis of tumor cells to provide drug efficacy and resistance guidance for chemotherapy. With chemo-scale analysis, we minimize the risks of therapy failure for the patient - saving money, reducing 'trial and error' and most importantly, intensifying the attack on the patient's cancer, not the patient.

- Cancer is a highly heterogenous disease which has unique properties and differs in every patient and hence every patient responds differently to the same chemotherapy regimen.
- chemo-scale approach directly tests the effect of chemotherapy / anti- cancer drugs on the patient's tumor cells. It helps to customize treatment plan according to sensitivity and resistance pattern of tumor cells.
- When armed with this information, the physician and patient can choose the most effective chemotherapy from all available options.
- chemo-scale is the personalization of chemotherapy by directly studying effect of chemotherapy drugs on cells taken from fresh biopsy sample of the tumor or Circulating Tumors Associated Cells (C-TACs) isolated peripheral blood.

## Advantages of chemo-scale

- It reveals cytotoxic chemotherapy drug efficacy
- It also reveals hierarchy of these drug choices in descending order of efficacy
- Analysis is carried out for single drugs and additional drug combinations on request

## Frequently Asked Questions

### What is chemo-scale?

- chemo-scale is a powerful analysis performed on live tumor cells. It reveals which drugs or combinations will kill the cancer of an individual patient more effectively. It displaces the costly 'trial and error' method where the patient suffers enormously. We analyze response of the cancer to all NCCN recommended labeled and off-label cytotoxic chemotherapy.
- chemo-scale enables the patient and the oncologist to take informed decisions based on actual evidence of therapy response and possible resistance.

### Who will benefit ?

- Newly diagnosed patients for choosing best among first line cytotoxic chemotherapy drugs.
- For patients with cancer recurrence.
- The test is presently available for all Solid Organ Tumors.

### 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 your treatment.

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

- Commonly available molecular tests provide information mainly about targeted therapy drugs, where 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 identify the best drugs for treatment by studying direct effect of drugs on tumor cells, thus enabling accurate advice.

### Will chemo-scale work for my specific cancer?

- chemo-scale can be used for majority of cancers where chemotherapy is a treatment option.

### How long does it take to get the results from the test?

- The results are made available in 8-10 working days once we receive the tumor sample.

## DCG chemo-scale Publications

**Journal of  
Clinical  
Oncology®**

- ✓ Liquid Biopsies to Enable Non-Invasive Real-Time Functional Chemoresistance Profiling in Solid Organ Cancers
- ✓ Effect of Previous Chemotherapy Treatments on Circulating Tumor-Associated Cells in Colorectal Cancer

OXFORD

**Neuro-Oncology**

- ✓ In Vitro Chemo Resistance Profiles of Circulating Glial Cells Replicate Chemo Characteristics of Tumor Tissue

International Journal of  
**Radiation Oncology**

- ✓ Circulating Tumor Associated Cells in Head and Neck Cancers are Resistance Educated per Previous Chemotherapy Treatments

**AAGR  
Cancer Research**

- ✓ Abstract P6-10-11: In Vitro Chemo Interrogation of Viable Circulating Tumor Associated Cells from Breast Cancer Patients

**ORAL  
ONCOLOGY**  
The Head and Neck Cancer Journal

- ✓ Non-invasive Real-time Chemoresistance Profiling of Circulating Tumor Associated Cells in Head and Neck Cancers

**Journal of  
Thoracic  
Oncology**

- ✓ Circulating Tumor-Associated Cells in Lung Cancers are Resistance-Educated per Previous Chemotherapy Treatments

### Contact us:

✉ info-dcguk@datargpx.com  
🌐 datargpx.com



**DATAR  
CANCER GENETICS**  
UNITED KINGDOM | GERMANY | INDIA