



# myCare-101 Clinical Trial

## Personalized Cancer Therapy Biosimulation

Know how each cancer patient will respond to therapy before treatment

### Every patient's tumor has a unique mutation profile



Standard care guidelines only consider one mutation at a time, resulting in low response rates across cancer types.



Treatment guidelines do not consider mutational interactions and mechanisms of action that often cause drug resistance.



Genome sequencing technology has improved significantly, but today's analysis of the output is inadequate.

## Personalized Cancer Therapy Biosimulation considers all the mutations and abnormalities in a patient's tumor

### Personalized Cancer Therapy Biosimulation Predicts:

Most efficacious chemotherapy

Most effective targeted therapy

Most beneficial immunotherapy

Synergistic therapy combinations

Radiotherapy sensitivity or resistance

### Know

Patient response to all standard care drugs or novel combination therapies

### Select

Personalized treatment utilizing patient NGS data

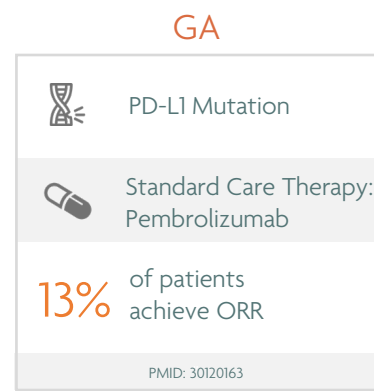
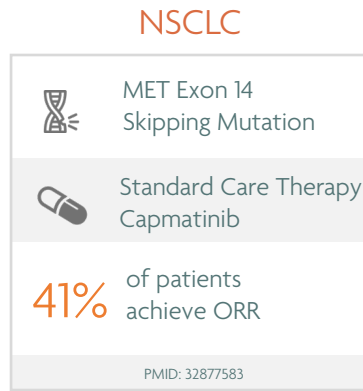
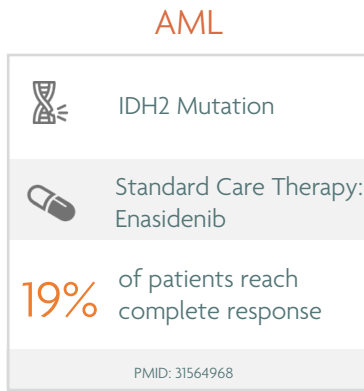
### Avoid

Ineffective treatments and associated side effects

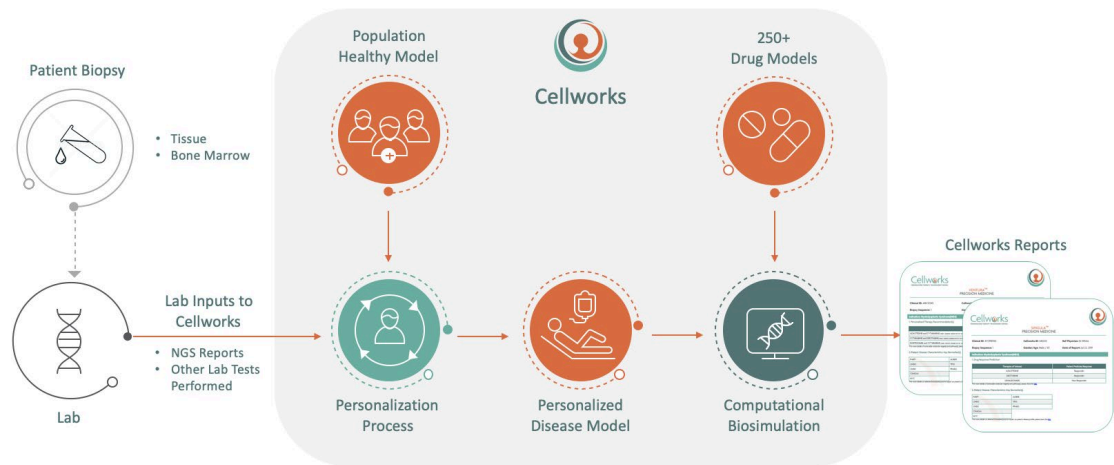
### Improve

Overall survival rates of patients

# Current treatment guidelines typically target one mutation with one drug, resulting in **low response rates** across cancer types



## How does Personalized Cancer Therapy Biosimulation work?



Biosimulate a patient’s multi-omic profile to predict and rank individual patient responses to millions of drug combinations by identifying oncotecture master regulators, mechanisms of resistance and conducting signaling pathway impact analysis.

## Therapy biosimulation reports predict a patient’s individual response to cancer treatments

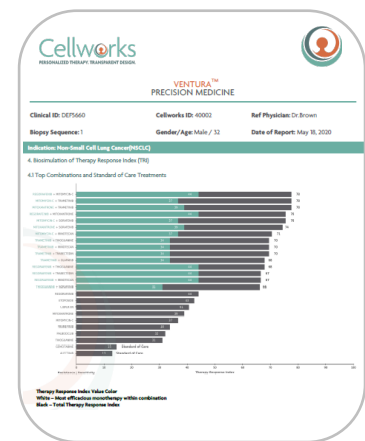
### SINGULA™

Predicts personalized response to Standard Care therapies for front-line patients.

Therapy of Interest	Patient Predicted Response
CARBOPLATIN	Responder
CARBOPLATIN_CISPLATIN	Responder
CARBOPLATIN_CICHTHIONE	Responder
CARBOPLATIN_FLUTAMIDE	Responder
CARBOPLATIN_FLUTAMIDE_CISPLATIN	Responder
CARBOPLATIN_FLUTAMIDE_CISPLATIN_CISPLATIN	Responder
CARBOPLATIN_FLUTAMIDE_CISPLATIN_CISPLATIN	Responder
CARBOPLATIN_FLUTAMIDE_CISPLATIN_CISPLATIN_CISPLATIN	Responder
CARBOPLATIN_FLUTAMIDE_CISPLATIN_CISPLATIN_CISPLATIN_CISPLATIN	Responder
CARBOPLATIN_FLUTAMIDE_CISPLATIN_CISPLATIN_CISPLATIN_CISPLATIN_CISPLATIN	Responder
CARBOPLATIN_FLUTAMIDE_CISPLATIN_CISPLATIN_CISPLATIN_CISPLATIN_CISPLATIN_CISPLATIN	Responder
IRADIATION	Responder
AVASTIN	Non-Responder
ALECTINIB	Non-Responder
BRIGATINIB	Non-Responder
CYTHIB	Non-Responder

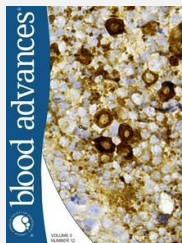
### VENTURA™

Predicts and ranks personalized response to combinations of FDA-approved drugs, including off-label and non-oncology drugs for refractory patients.



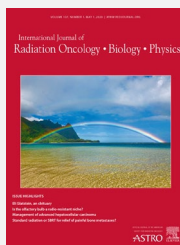
# Cellworks biosimulation predictions proven accurate across indications

## AML and MDS



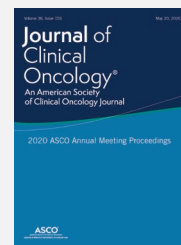
90%  
Cellworks  
Therapy Response  
Prediction Accuracy

## GBM



Cellworks Predicted  
**SUPERIOR**  
**OS**  
of patients treated  
with radiation

## PDAC



94%  
Cellworks  
Therapy Response  
Prediction Accuracy

## Who can participate in myCare-101?

Physicians treating patients utilizing NGS reports for any of the listed cancer indications

Bladder  
Bone  
Brain  
Breast  
Esophagus and Stomach  
Extragenital Germinal Cell Tumors  
Genital Tract, Lower - Female  
Genital Tract, Lower - Male  
Head and Neck  
Kidney  
Large Intestine and Anus

Leukemia  
Liver and Bile Duct  
Lung and Bronchus  
Lymphoma  
Lymphoma – Hodgkin  
Lymphoma – Non-Hodgkin  
Melanoma  
Mesothelioma  
Myelodysplastic Syndrome  
Myeloma  
Myeloproliferative Disease

Ovary and Fallopian Tube  
Pancreas  
Prostate  
Skin  
Small Intestine  
Soft Tissue  
Testes  
Thymus  
Urothelial Carcinoma  
Uterus  
Cancer of Unknown Primary

Full list of 150+ indications available

## myCare - 101 Clinical Trial Process



1

Physician securely uploads patient's NGS report to Cellworks Portal



2

Cellworks biosimulates patient responses to Standard Care and/or novel therapies



3

Physician receives a Cellworks Singula™ and/or Ventura™ report



4

Physician and patient share therapy selection decision



5

Physician and patient provide feedback through a Cellworks survey

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# myCare-101 Cancer Indications

## Bladder

- Small Cell Carcinoma of Bladder

## Bone

- Chondrosarcoma
- Chordoma
- Ewing Sarcoma
- Giant Cell Tumor of Bone
- Osteosarcoma

## Brain

- Anaplastic Astrocytoma - WHO III
- Anaplastic Ependymoma - Posterior Fossa
- Anaplastic Ependymoma - Spinal
- Anaplastic Ependymoma - Supratentorial
- Anaplastic Ganglioglioma
- Anaplastic Oligodendroglioma
- Astrocytoma - NOS
- Diffuse Astrocytoma - WHO II
- Diffuse Midline Glioma
- Ependymoma - Posterior Fossa
- Ependymoma - Supratentorial
- Ganglioglioma
- Glioblastoma Multiforme (GBM) - WHO IV
- Glioma
- High Grade Glioma
- Low Grade Glioma
- Medulloblastoma
- Neuroblastoma
- Oligoastrocytoma
- Oligodendroglioma
- Pilocytic Astrocytoma
- Pleomorphic Xanthoastrocytoma
- Primary Diffuse Large B-Cell Lymphoma of the Central Nervous System

## Breast

- Breast Cancer (ER-, PR-, HER2+)
- Hormone Refractory ER+ Breast Cancer
- Metaplastic Breast Cancer
- Triple Negative Breast Cancer

## Esophagus and Stomach

- Esophageal Adenocarcinoma
- Esophageal Squamous Cell Carcinoma
- Gastric Leiomyosarcoma
- Gastroesophageal Junction Adenocarcinoma
- Small Cell Carcinoma of Esophagus
- Small Cell Carcinoma of Stomach
- Stomach or Gastric Adenocarcinoma - Diffuse Subtype
- Stomach or Gastric Adenocarcinoma - Intestinal Subtype

## Extragenadal Germinal Cell Tumors

- Choriocarcinoma
- Embryonal Cell Carcinoma
- Germinoma
- Mixed Germ Cell Tumors – Extragenadal
- Yolk Sac Carcinoma

## Genital Tract, Lower – Female

- Cervical Cancer
- Vaginal Cancer
- Vulvar Cancer

## Genital Tract, Lower – Male

- Penile Carcinoma

## Head and Neck

- Acinic Cell Carcinoma of Salivary Gland
- Adenoid Cystic Carcinoma
- Anaplastic Carcinoma of Salivary Gland
- Epidermoid Carcinoma of Salivary Gland
- Head And Neck Squamous Cell Carcinoma
- Hypopharyngeal Squamous Cell Carcinoma
- Laryngeal Squamous Cell Carcinoma
- Lip and Oral Cavity Squamous Cell Carcinoma
- Malignant Mixed Tumor of Salivary Gland
- Mucoepidermoid Carcinoma
- Nasopharyngeal Carcinoma
- Olfactory Neuroblastoma (Esthesioneuroblastoma)
- Oropharyngeal Squamous Cell Carcinoma
- Paranasal Sinus and Nasal Cavity Squamous Cell Carcinoma
- Salivary Gland Adenocarcinoma

## Kidney

- Renal Cell Carcinoma – NOS
- Renal Chromophobe Carcinoma
- Renal Clear Cell Carcinoma
- Renal Clear Cell Carcinoma - Rhabdoid subtype
- Renal Clear Cell Carcinoma - Sarcomatoid subtype
- Renal Cystic-Solid Non-Clear Cell Carcinoma
- Renal Non-Clear Cell Carcinoma
- Renal Papillary Cell Carcinoma
- Wilms Tumor (Nephroblastoma)

## Large Intestine and Anus

- Anal Carcinoma
- Ascending Colon Cancer
- Cecal Carcinoma
- Colon Cancer
- Colorectal Adenocarcinoma - NOS
- Descending Colon Cancer
- Rectal Cancer
- Sigmoid Colon Cancer
- Small Cell Carcinoma of Colon
- Transverse Colon Cancer

## Leukemia

- Acute Lymphoblastic Leukemia - B-Cell
- Acute Lymphoblastic Leukemia - T-Cell
- Acute Myeloid Leukemia - De Novo
- Acute Myeloid Leukemia - Transformed
- Acute Myeloid Leukemia (AML) - NOS
- Acute Promyelocytic Leukemia
- Adult T-Cell Lymphoma-Leukemia
- Chronic Lymphocytic Leukemia B-Cell
- Chronic Lymphocytic Leukemia T-Cell
- Early T-Cell Precursor Acute Lymphoblastic Leukemia
- Hairy Cell Leukemia
- Juvenile Myelomonocytic Leukemia
- Large Granular Lymphocytic Leukemia - T-Cell
- Pediatric Acute Lymphoblastic Leukemia
- Pediatric Acute Myeloid Leukemia
- Pediatric B-Cell Acute Lymphoblastic Leukemia
- Plasma Cell Leukemia
- Polymphocytic Leukemia - B-Cell
- Polymphocytic Leukemia - T-Cell

## Liver and Bile Duct

- Ampullary Carcinoma
- Cholangiocarcinoma - Extrahepatic
- Cholangiocarcinoma - Intrahepatic
- Cholangiocarcinoma - NOS
- Fibrolamellar Hepatocellular Carcinoma
- Gallbladder Cancer
- Hepatocellular Carcinoma
- Liver or Hepatic Cancer

## Lung and Bronchus

- Adenosquamous Carcinoma of the Lung
- Large Cell Carcinoma
- Lung Adenocarcinoma
- Lung Squamous Cell Carcinoma
- Non-Small Cell Lung Cancer (NSCLC) - NOS
- Small Cell Carcinoma of Epithelium
- Small Cell Lung Cancer

## Lymphoma

- Histiocytic Neoplasms

## Lymphoma – Hodgkin

- Hodgkin Lymphoma
- Lymphocyte Depleted Hodgkin's Disease
- Mixed Cellularity
- Nodular Lymphocyte Predominant
- Nodular Sclerosis
- Pediatric Hodgkin Lymphoma

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# myCare-101 Cancer Indications

## Lymphoma – Non-Hodgkin

- Anaplastic Large Cell Lymphoma - ALK-
- Anaplastic Large Cell Lymphoma - ALK+
- Angioimmunoblastic T-Cell Lymphoma
- Breast Implant-Associated Anaplastic Large Cell Lymphoma
- Burkitt-like Lymphoma - 11q Aberration
- Burkitts Lymphoma
- Cutaneous T-Cell Lymphoma
- Diffuse Large B-Cell Lymphoma
- Duodenal-Type Follicular Lymphoma
- Enteropathy-Associated T-Cell Lymphoma
- Extranodal Natural Killer T-Cell Lymphoma
- Follicular Lymphoma
- Follicular Lymphoma - 1p36 Deletion
- Hepatosplenic T-Cell Lymphoma
- High Grade B-Cell Lymphoma - NOS
- Lymphoplasmacytic Lymphoma (Waldenstrom Macroglobulinemia)
- Mantle Cell Lymphoma
- Monomorphic Epitheliotropic Intestinal T-Cell Lymphoma
- Mycosis Fungoides
- Natural Killer T-Cell Lymphoma
- Nodal Marginal Zone Lymphoma
- Non-Hodgkin Lymphoma
- Pediatric Aggressive Mature B-Cell Lymphomas
- Pediatric-Type Follicular Lymphoma
- Peripheral T-Cell Lymphoma - NOS
- Plasmablastic Lymphoma
- Primary Cutaneous Acral CD8+ T-Cell Lymphoma
- Primary Cutaneous Anaplastic Large Cell Lymphoma
- Primary Cutaneous CD8+ T-Cell Lymphoma
- Primary Cutaneous Gamma-Delta T-Cell Lymphoma
- Primary Mediastinal (Thymic) Large B-cell Lymphoma
- Sezary Syndrome
- Small Lymphocytic Lymphoma
- Splenic Marginal Zone Lymphoma

## Melanoma

- Acral Melanoma
- Lentigo Maligna
- Melanoma
- Nodular Melanoma
- Skin Cutaneous Melanoma
- Superficial Spreading Melanoma
- Uveal Melanoma

## Mesothelioma

- Malignant Pleural Mesothelioma
- Mesothelioma of Pericardium
- Mesothelioma of Peritoneum

## Myelodysplastic Syndrome

- Chronic Myelomonocytic Leukemia
- Myelodysplastic Syndrome
- Myelodysplastic Syndrome - Isolated Deletion 5q
- Myelodysplastic Syndrome - Unclassifiable
- Myelodysplastic Syndrome Excess Blasts 1
- Myelodysplastic Syndrome Excess Blasts 2
- Myelodysplastic Syndrome Multilineage Dysplasia
- Myelodysplastic Syndrome Ringed Sideroblasts - Multilineage Dysplasia
- Myelodysplastic Syndrome Ringed Sideroblasts - Single Lineage Dysplasia
- Myelodysplastic Syndrome Single Lineage Dysplasia

## Myeloma

- Multiple Myeloma (MM)
- Smoldering Myeloma
- Solitary Plasmacytoma

## Myeloproliferative Disease

- Chronic Myelogenous Leukemia
- Essential Thrombocythemia
- Myelofibrosis
- Myeloproliferative Neoplasms - NOS
- Polycythemia Vera

## Ovary and Fallopian Tube

- Clear Cell Carcinoma of the Ovary
- Malignant Mixed Mullerian Tumor of the Ovary (Ovarian Carcinosarcoma)
- Mucinous Carcinoma of the Ovary
- Ovarian Cancer
- Serous Carcinoma - Borderline
- Serous Carcinoma - High Grade

## Pancreas

- Pancreatic Acinar Cell Carcinoma
- Pancreatic Ductal Adenocarcinoma
- Small Cell Carcinoma of Pancreas

## Prostate

- Hormone Refractory AR+ Prostate Cancer
- Small Cell Carcinoma of Prostate

## Skin

- Basal Cell Carcinoma of Skin
- Microcystic Adnexal Carcinoma
- Sebaceous Carcinoma
- Squamous Cell Carcinoma of Skin

## Small Intestine

- Appendiceal Carcinoma
- Duodenal Carcinoma
- Small Intestine Carcinoma

## Soft Tissue

- Angiosarcoma
- Fibrosarcoma
- Gastrointestinal Stromal Tumor
- Leiomyosarcoma
- Liposarcoma
- Malignant Peripheral Nerve Sheath Tumor
- Soft Tissue Sarcoma - NOS
- Synovial Sarcoma
- Undifferentiated Pleomorphic Sarcoma

## Testes

- Embryonal Carcinoma
- Mixed Germ Cell Tumors of Testes
- Seminoma
- Teratoma
- Testicular Choriocarcinoma
- Yolk Sac Tumor

## Thymus

- Thymic Carcinoma
- Thymoma

## Urothelial Carcinoma

- Bladder Adenocarcinoma
- Bladder Urothelial Carcinoma
- Renal Pelvis Cancer
- Urachal Carcinoma
- Ureteral Carcinoma
- Urethral Carcinoma
- Urothelial Carcinoma - NOS

## Uterus

- Malignant Mixed Mullerian Tumor
- Uterine Carcinosarcoma
- Uterine Endometrioid Carcinoma
- Uterine Leiomyosarcoma
- Uterine Papillary Serous Carcinoma

## Cancer of Unknown Primary

- Cancer of Unknown Primary - Adenocarcinoma
- Cancer of Unknown Primary - Germ Cell Carcinoma
- Cancer of Unknown Primary - Hematological Cancer
- Cancer of Unknown Primary - Squamous Carcinoma
- Cancer of Unknown Primary - Undifferentiated Carcinoma

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