

# Banking somatic stem cells for screening applications.

Published: 22-06-2016

Last updated: 17-04-2024

Banking somatic stem cells for clients, from discarded umbilical cords or tumors and giving clients the opportunity to use their somatic stem cells for analytical applications.

<b>Ethical review</b>	Approved WMO
<b>Status</b>	Pending
<b>Health condition type</b>	Other condition
<b>Study type</b>	Observational invasive

## Summary

### ID

NL-OMON43433

### Source

ToetsingOnline

### Brief title

Banking somatic stem cells for screening applications.

### Condition

- Other condition

### Synonym

Depends on the screeningtest, stem cells and wishes of the client.

### Health condition

Onderzochte aandoening is afhankelijk van het screeningsonderzoek, stamcellen en wensen van de client.

### Research involving

Human

## Sponsors and support

**Primary sponsor:** Stem Cells Technologies

**Source(s) of monetary or material Support:** Stem Cells Technologies

## Intervention

**Keyword:** Biobank, Screening applications, Side effects, Stem cells

## Outcome measures

### Primary outcome

The main study parameter will be drug concentration gradients and viability of cell cultures, but the endpoints depends on the drug and tissue the client wants to screen.

### Secondary outcome

Depends on the drug and tissue the client wants to screen.

## Study description

### Background summary

With somatic stem cells cultures one can try to mimic the tissues in the human body, either healthy or diseased, but at a miniature size and outside the body. As an advantage, experiments can be performed without risk to a living human being. In these experiments, test can be performed to identify benefits from a specific drug for the client, or for example are at high risk of specific drug toxicity, it also opens the road towards more personalized and safer use of drugs. For these kind of tests we need somatic stem cells cultures and the easiest way to procure and bank somatic stem cells, is from discarded tumors and umbilical cords.

### Study objective

Banking somatic stem cells for clients, from discarded umbilical cords or tumors and giving clients the opportunity to use their somatic stem cells for analytical applications.

### Study design

Many years after banking somatic stem cells, screening applications can be performed in which the stem cells undergo some kind of intervention in order to evaluate the impact. The controlled intervention studies will primarily focus on testing pharmaceutical products containing only well-established drugs that are licensed by the Nederlandse College ter Beoordeling van Geneesmiddelen (CBG) or the the european commission. Before somatic stem cells can be used in screening applications they need to be procured, transported, processed and banked.

#### Procurement

The obstetrician or the oncologist will receive the collection kit. The protocols inside the collection kit give the obstetrician or oncologist clear instructions how to procure the stem cells.

#### Transport

After somatic stem cells procurement, Stem Cells Technologies will arrange a pick-up from the hospital and delivery to the Laboratory, all within 48 hours.

#### Processing

In the laboratory the somatic stem cells will be processed for cryogenic storage.

#### Banking

The stem cells will then be banked for 25 years.

#### Drug toxicity tests

When clients file for a screening test, the researcher will design a screening application. The researcher has control over the intervention, its timing, and dose or intensity. In its simplest form, an experimental study to test the effect of a treatment will follow these steps:

- The researcher formally states the hypothesis to be tested
- The researcher selects the banked specimen eligible for the treatment
- The sample is divided into two groups
- One group (the experimental, or intervention group) is given the intervention while the other (the control group) is not
- Outcomes of interest are recorded over time and the results compared between the two groups

The conclusion will be send to the doctor with recommendations for a specific drug for the client

### **Study burden and risks**

All clients need to enrol and answer a questionnaire.

After delivery or before the operation, one blood samples of 10ml will be taken for serology testing.

After delivery or operation the stem cells will be procured outside the body and client should not feel any discomfort.

## Contacts

### **Public**

Stem Cells Technologies

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NL

### **Scientific**

Stem Cells Technologies

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## Trial sites

### Listed location countries

Netherlands

## Eligibility criteria

### **Age**

Adults (18-64 years)  
Elderly (65 years and older)

### Inclusion criteria

18 years or older and mentally competent

### Exclusion criteria

Clients infected with HIV, Hepatitis B, Hepatitis C and Syphilis.

## Study design

### Design

**Study type:** Observational invasive

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Other

### Recruitment

NL

Recruitment status: Pending

Start date (anticipated): 01-05-2016

Enrollment: 0

Type: Anticipated

## Ethics review

Approved WMO

Date: 22-06-2016

Application type: First submission

Review commission: MEC-U: Medical Research Ethics Committees United (Nieuwegein)

## Study registrations

### Followed up by the following (possibly more current) registration

No registrations found.

### Other (possibly less up-to-date) registrations in this register

No registrations found.

## In other registers

### Register

CCMO

### ID

NL56324.101.16