

## Federal State Budget Institution “National Medical Research Center of Obstetrics, Gynecology and Perinatology named after Academician V.I. Kulakov” of the Ministry of Health of Russia - BIOBANK



The Center is the leading scientific, medical and academic institution of Russia in the fields of obstetrics, gynecology, perinatology and reproductology.

The Center comprises Institutes of Obstetrics, Neonatology and Pediatrics, Reproductology, Oncogynecology, Reproductive Genetics, Microbiology, a Perinatal Center, including 53 clinical departments and 22 laboratories carrying out fundamental research with the staff of 2 200 specialists. It also possesses a Simulation Training Center; the Frederik Paulsen Sr. ART Training Center and a Telemedicine facility. The Center provides medical care to around 140,000 patients annually, with over 9,000 births, 10,000 gynecologic surgical procedures, 8,000 IVF cycles in three ART units. The Center is the major basis for implementation of governmental programs on maternal and child healthcare. It is a coordinating federal institution, accumulating and spreading scientific achievements of domestic and foreign experts in the field of medical science and coordinating the work of Russian regional centers and clinics. The Center is the headquarters of the Russian Society of Obstetricians and Gynecologists (RSOG) and the founder and headquarters of the editorial board of the main national journal “Obstetrics and Gynecology”.

The Laboratory for collection and storage of biomaterial samples (BIOBANK) was established in 2012.



### CONTACTS:

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<https://www.ncagp.ru/>  
<http://en.ncagp.ru/>

### Instruments:

### Domain and object of research: H&F; ENV

### BIOBANK

BioBank is integrated into the Center’s internal patients database **Medialog** and therefore easily accessible for clinicians and researchers.

BIOBANK collects the samples of biologic materials (placenta, umbilical cord, amniotic fluid, fetal and embryonic tissues, biologic liquids, pathologic tissue samples, etc.) from the patients with different obstetrical, gynecological and neonatal pathologies, including cervical, ovarian, breast and endometrial cancers, preeclampsia, gestational diabetes, habitual miscarriage, fetal growth restriction, chromosomal aberrations, malformations, and other. It works in close collaboration with the research laboratories and clinical Departments of the Center.

Laboratory is equipped with EBRO system – temperature and humidity monitoring in refrigeration systems and rooms. The samples can be arranged in collections for specific research purposes. Currently, the material is used for more than 20 research projects carried out by the Center and supported by several national foundations, and in collaborative international research. Other activities include validation of diagnostic tests (on request on manufacturers) – e.g. kits for antibodies to COVID-19; development and validation of samples collection and storage protocols.

All samples are characterized in detail with patients’ demographic and clinical features, anonymized and bear a QR –code.

Currently, more than 500,000 samples are stored in 15 refrigerators with 32 400 storage units each.

Storage conditions and monitoring comply with international standards (ISBER, BBMRI-ERIC).