



State Program "Pharma 2020"

activities of Group 2 "Development of Innovative Potential of the Pharmaceutical Industry"

Program purpose:

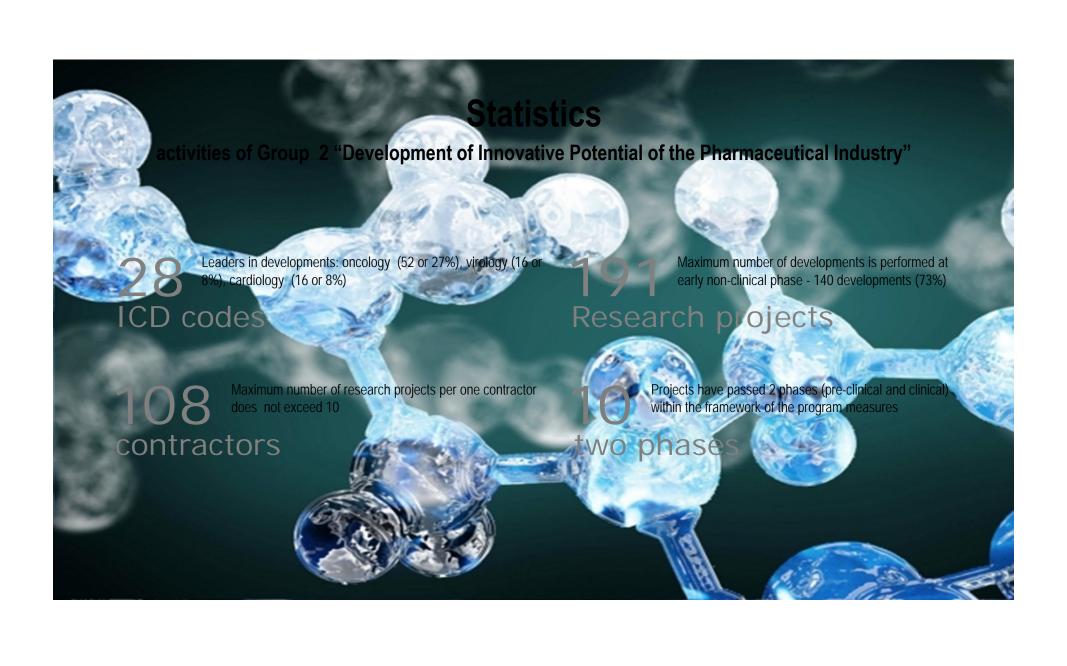
Creation of innovative Russian world-class pharmaceutical and medical industry

Key tasks:

- Creation of scientific and technological potential for the development of innovative drugs
- Provision of pharmaceutical market with home-produced drugs of up to 50%, in monetary terms
- Creation of a mechanism for financing the innovative drugs development
- Growth of small and middle-sized innovative enterprises
- Increase of pharmaceutical product exports

NEXT STEP:

Launch of market mechanism of investments attraction and engaging scientific developments in the production process

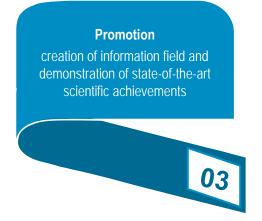


What organizational mechanisms shall be created?

Growth points

Estimation methodology of independent development audit: scientific, technological, economic, taking into account Russian and international specific characteristics





Project office

Organizational mechanism ensuring system operation that promotes commercialization of advanced scientific developments

What has been done?

Intermediate results of project office activity



Selection criteria

A set of criteria taking into account cross-functional task aspect was created

The audit procedure

The development audit methodology was created and testing is carried out by cross-functional working groups

Working groups

5 working groups of experts were created

Support measures

A briefing note on support measures for working with developers



The task of the project group is not simply to choose the best project, expert competence of project office allows "pulling up" of the weak points (commercial, profile and juridical) of the projects



Number of working groups 5

Basic composition: three crows (medicine and pharmaceutics, business, parents and intellectual property protection). The composition is flexible changed depending on project-specific request.



Objectivity over 30 experts

To obtain maximum results, the expert group activity includes the principle of the checking of the decision by different expert group

Requirements for

Experience, confirmed high ex

nanoschematic # 1

indonondonos

, independence and absence of discounterest (in a specific project)

Partners of project office









The Procedure of the projects' selection and analysis

Step 1 Collection of materials and expertanalysis of the projects, performed by working groups

Step 2 Evaluation of the projects by a groups of criteria, with preparation of project profile-questionnaire

Group N21
3 criteria

weight > 0.2

- Innovativeness level
- Development stage
- Competitive environment in the world

Group NO.2

weight > 0.05

- Patent type
- Intellectual property protection

Expert opinion

Group No.3

4 criterie

weight >0.002

- International partnership
- Raw material type
- Raw material availability
- Readiness for industrial operations

Step 3 Selection of developments, as per groups: pilot, additional. Interaction with developers, preparation of recommendations sheet

Examples of developments selected within the framework of project office activities

Projects group phase of clinical studies

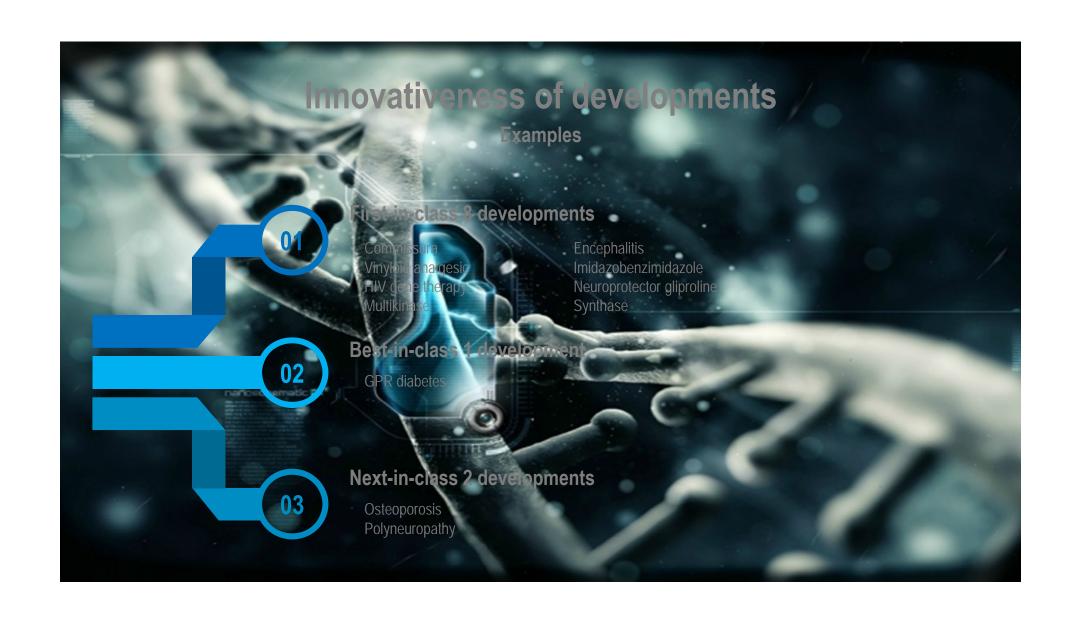
Polyneuropathy

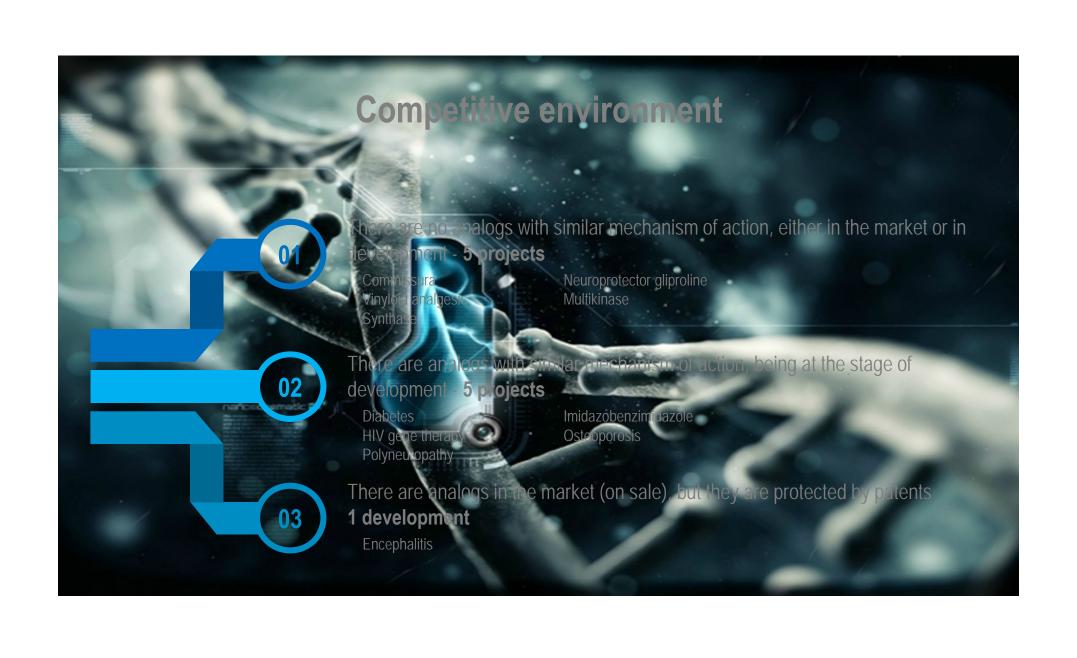
Innovative disease drug for pulhogenatic treatment of diabetic distal polyneuropathy Currently, there are no registered drugs ipr paths enetic treatment of capped tumors and osteoporosis base if on hybrid antibody-like osteoclast-activating inhibitory molecule

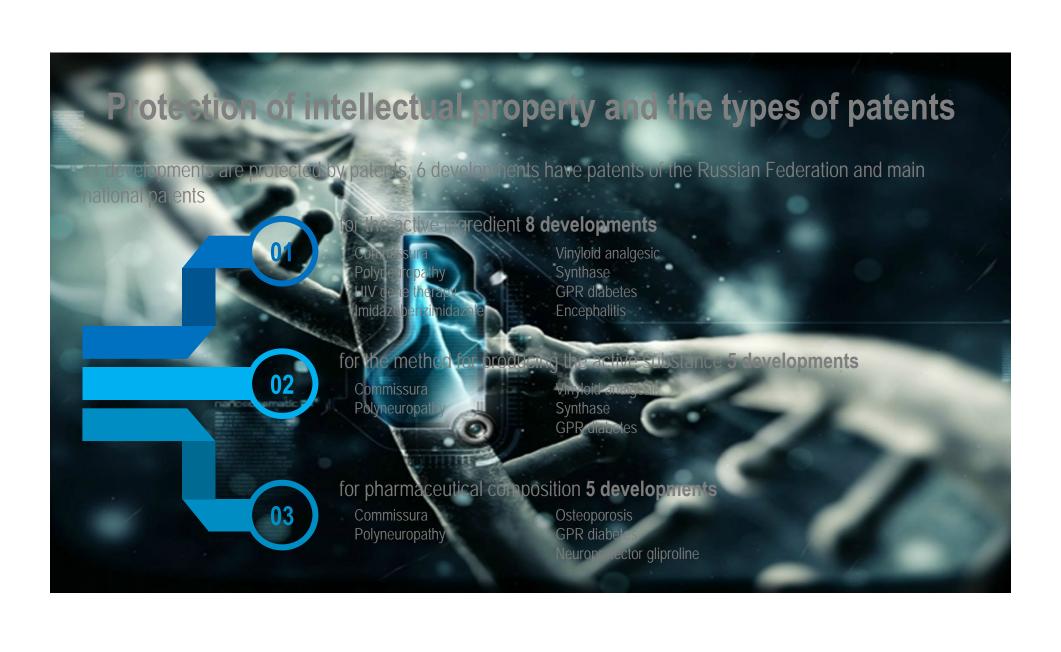
Medicinal slaw-release drug for prevention of peritoneal commissura

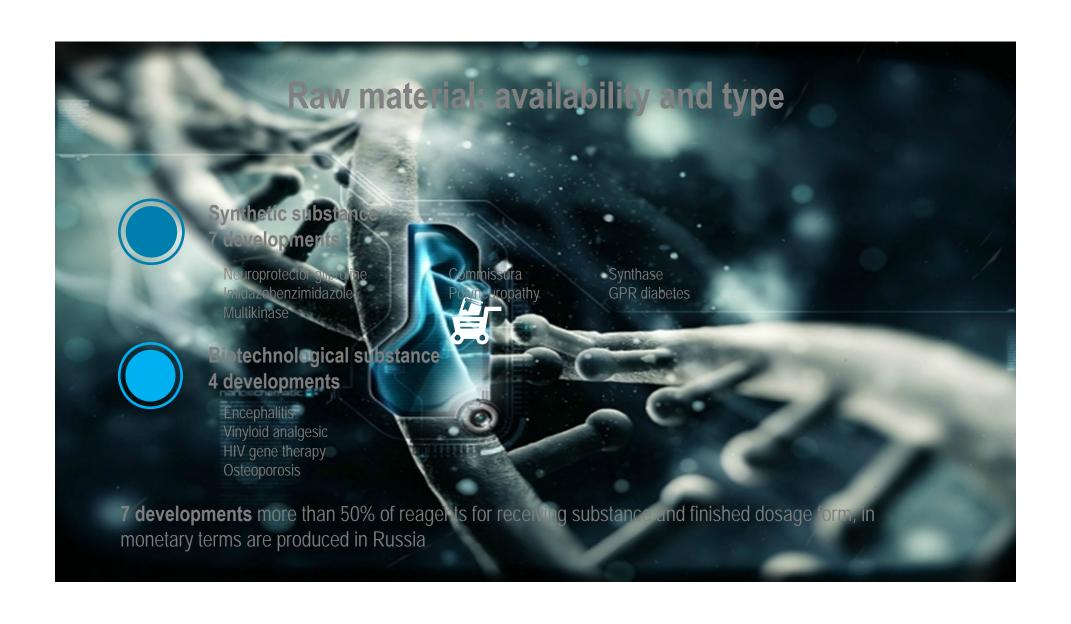
Projects group phase of pre-clinical studies (PS)

| Vfnyloid air algesic | Drug resulting in a high level of selectivity and specificity to vanidoid receptor TRPV1. Fundamentally new analgesic specifically acting on the molecular mechanisms of pain generation, with minimal side effects. |
|---------------------------|--|
| Diabetes | Lrug acting receptor GPR119, which promotes generation of incretin products, which are lower at type 2 diabetes. It decreases the risk of developing hypogygaemic reactions. |
| Multikinase | Anti-leuk mic or greater than edelfozin by activity, at significantly higher and minimal damage to normal cells and particular importance is the establishment of phosphorus-free alkyl glycerolipids inhibiting substances, which are important for proliferation, and survival of leukemia cells |
| Encephalitis | Biotechnological immunoglobuling placing serum product derived from donated blood. With high affinity and protective properties, which are bundleds three greater than the protective properties of the commercial immunoglobulin serum. |
| Imidazobenzimidazole | Drug with the Lappa-opioid apprests activity on the basis of derivative of imidazobenzimuszole, combines the unique pharmacological properties of highly selective kappa-agonist and several malgesic that does not cause respiratory disorders and drug addiction. |
| Neuroprotector gliproline | Neuroprotector, based on gliproline-group of peptides, combines both high performance, duration, speed of onset of effect, indapendent absence of negative afterefrects. |
| HIV gene therapy | Combined gene therapy drug for HIV infection treatment |
| Synthase | Drug which increases the activity of endothelial NO-synthase |



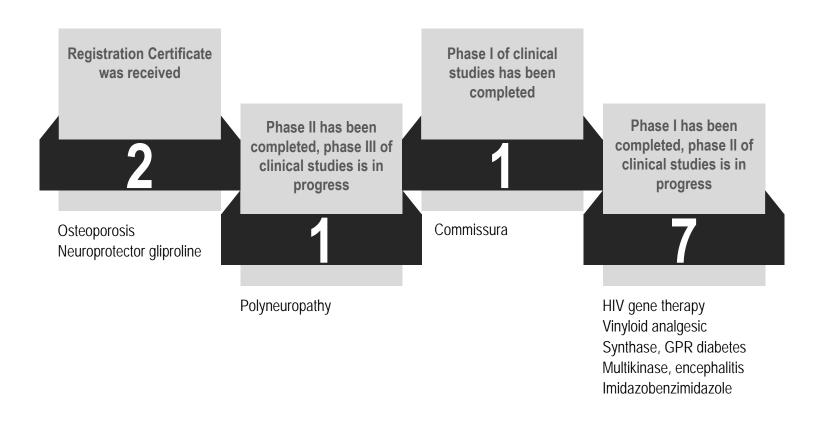






Development stages

First group of selected projects



Development stages

