







| Drug name / nosology, area of use                | Progress by stages  | Description  |
|--|---|--|
| Pharmaceuticals                                  |   |  |
| Genoterosil<br>Osteogenesis in bone<br>fractures | Completion of: DNA vectors development, depositing of producer strains in depositories, development of industrial production technology, conducting preclinical trials and phase I clinical trials, approval obtained for phase II-III combined clinical trials | Gene therapy drug based on non-viral DNA vectors carrying coding parts of BMP-2, BMP-7, COL1A1, COL1A2 genes for accelerated bone tissue regeneration in fractures |
| Epidermolysis bullosa                            | Completion of: DNA vectors development, depositing of producer strains in depositories, development of industrial production technology, conducting preliminary preclinical trials in vitro   | Gene therapy drug based on non-viral DNA vectors carrying coding parts of KRT5, KRT14, LAMB3, COL7A1 genes for epidermolysis bullosa therapy                       |
| Cystic fibrosis                                  | Completion of: DNA vectors development, depositing of producer strains in depositories, development of industrial production technology, conducting preliminary preclinical trials in vitro   | Gene therapy drug based on non-viral DNA vectors carrying coding parts of CFTR, NOS1, AQ1, AQ3, AQ5 genes for cystic fibrosis therapy                              |
| Haemochromatosis                                 | Completion of: DNA vectors development, depositing of producer strains in depositories, development of industrial production technology, conducting preliminary preclinical trials in vitro   | Gene therapy drug based on a non-viral DNA vector carrying the coding part of the target gene HFE for the therapy of haemochromatosis                              |





| Drug name / nosology,<br>area of use   | Progress by stages  | Description   |
|--|---|---|
| CG-AD211<br>Alzheimer's disease        | Completion of: Drug concept development, bioinformatic and scientific analysis, and work is underway on DNA vector development  | By leveraging native human genes, our approach includes two stages: first stage directly targets the accumulation of intracellular tau aggregates—recognized as a primary cause of neurodegeneration and cognitive decline in Alzheimer's disease; next stage actively stimulates multiple regeneration processes within the brain. It supports damaged neurons in their recovery and enhances their capability to re-establish functional synaptic connections         |
| CG-PD118<br>Parkinson's disease        | Completion of: Drug concept development, bioinformatic and scientific analysis, and work is underway on DNA vector development  | By leveraging native human genes, our approach includes two stages: first stage directly targets the accumulation of intracellular α-synuclein aggregates—recognized as a primary cause of neurodegeneration and cognitive decline in Parkinson's disease; next stage actively stimulates multiple regeneration processes within the brain. It supports damaged neurons in their recovery and enhances their capability to re-establish functional synaptic connections |
| CG-MS750<br>Multiple sclerosis         | Completion of: Drug concept development, bioinformatic and scientific analysis, and work is underway on DNA vector development  | By leveraging native human genes, our approach includes two stages: first stage directly targets the glial scars formation—recognized as a primary cause of neurodegeneration and cognitive decline in multiple sclerosis; next stage actively stimulates multiple regeneration processes within the brain, especially the process of remyelination   |
| Other<br>neurodegenerative<br>diseases | Completion of: DNA vectors development, depositing of producer strains in depositories, development of industrial production technology, conducting preliminary preclinical trials in vitro | Gene therapy drug based on non-viral DNA vectors carrying coding parts of DDC, IL10, IL13, IFNB1, TNFRSF4, TNFSF10, BCL2, HGF, IL2, BDNF, VEGF, HIF1A, IGF1, GDNF, TGFB3 and other genes for therapy of a group of neurodegenerative diseases, the causes of which are associated with genetic factors, inherited forms of amyotrophic lateral sclerosis, trauma to the central nervous system, etc.  |





| Drug name / nosology, area of use            | Progress by stages  | Description   |
|--|---|---|
| CG-LF481<br>Liver fibrosis                   | Completion of: Drug concept development,<br>bioinformatic and scientific analysis, and work<br>is underway on DNA vector development  | Gene therapy drug based on non-viral DNA vectors carrying coding parts of genes for therapy of liver fibrosis   |
| CG-FM319 Post-infarction myocardial fibrosis | Completion of: Drug concept development, bioinformatic and scientific analysis, and work is underway on DNA vector development  | Gene therapy drug based on non-viral DNA vectors carrying coding parts of genes for myocardial regeneration after infarction.   |
| Pickvelis<br>Diabetes mellitus /<br>obesity  | Completion of: Concept development, bioinformatic and scientific analysis   | Gene therapy drug in the form of lyophilised complex of LNP+non-viral DNA vector in an enteric soluble shell to counteract type 2 Diabetes mellitus and obesity by regulating insulin secretion and lowering blood glucose levels   |
| Neovascularisation                           | Completion of: DNA vectors development, depositing of producer strains in depositories, development of industrial production technology, conducting preliminary preclinical trials in vitro | Gene therapy drug based on non-viral DNA vectors carrying coding parts of ANG, ANGPT1, VEGFA, FGF1, HIF1 $\alpha$ , HGF, SDF1, KLK4, PDGFC, PROK1, PROK2 and other genes. for therapy of a variety of diseases characterized by impaired vascularisation and tissue trophism, angiogenesis and haematopoiesis, hypoxia, impaired regeneration of various tissues, for treatment of ischemic lesions of myocardium, brain and spinal cord, limb muscle tissues, including diabetes, for treatment of oncological and neurodegenerative diseases, including amyotrophic lateral sclerosis |
| Neoinnervation                               | Completion of: DNA vectors development, depositing of producer strains in depositories, development of industrial production technology, conducting preliminary preclinical trials in vitro | Gene therapy drug based on non-viral DNA vectors carrying coding parts of BDNF, VEGFA, BFGF, NGF, GDNF, NT3, CNTF, IGF1 and other genes for therapy of diseases characterized by impaired functions of the central and peripheral nervous system, for enhancing the potential of cell therapy and allogeneic transplants, for enhancing neurogenesis, as well as after acute ischemia, trauma, in neurodegenerative diseases, diabetic neuropathy, for enhancing cognitive functions  |





| Drug name / nosology, area of use | Progress by stages  | Description  |
|-----------------------------------|---|--|
| Spondylodesis                     | Completion of: DNA vectors development,<br>depositing of producer strains in depositories,<br>development of industrial production<br>technology, conducting preliminary preclinical<br>trials in vitro | Gene therapy drug based on non-viral DNA vectors carrying coding parts of BMP-2, BMP-7, LMP-1, NELL-1, etc. genes to increase efficiency and in rehabilitation after spondylodesis   |
| Female idiopathic infertility     | Completion of: DNA vectors development,<br>depositing of producer strains in depositories,<br>development of industrial production<br>technology, conducting preliminary preclinical<br>trials in vitro | Gene therapy drug based on non-viral DNA vectors carrying coding parts of IL11, LIF, DICER, HOXA10, WT1 and other genes for therapy of female idiopathic infertility associated with aspects of blastocyst attachment failure  |
| Erectile dysfunction              | Completion of: DNA vectors development, depositing of producer strains in depositories, development of industrial production technology, conducting preliminary preclinical trials in vitro             | Gene therapy drug based on non-viral DNA vectors carrying coding parts of NOS2, NOS3, VIP, KCNMA1, CGRP and other genes for therapy of erectile dysfunction that is not caused by organic disorders or diseases  |
| Age-related skin changes          | Completion of: DNA vectors development, depositing of producer strains in depositories, development of industrial production technology, conducting preliminary preclinical trials in vitro             | Gene therapy drug based on non-viral DNA vectors carrying coding parts of COL1A1, COL1A2, P4HA1, P4HA2, COL7A1, CLCA2, ELN, PLOD1 and other genes for therapy of a set of pathologies characterized by impaired formation of the extracellular matrix of the skin and other organs, for prevention of skin aging caused by external and internal factors, for therapy of hereditary connective tissue diseases, including Ehlers-Danlo Syndrome. |
| Immunomodulation                  | Completion of: DNA vectors development, depositing of producer strains, development of industrial production technology, conducting preliminary preclinical trials in vitro                             | Gene therapy drug based on non-viral DNA vectors carrying coding parts of IFNB1, IFNA14, IFNA2, IL12A, IL12B and other genes for therapy of a set of pathologies associated with disorder of innate and adaptive immunity, for therapy of autoimmune, oncological, viral diseases associated with imbalance of the immune system   |





| Drug name / nosology, area of use | Progress by stages  | Description  |
|-----------------------------------|---|--|
| Parodontosis,<br>periodontitis    | Completion of: DNA vectors development, depositing of producer strains in depositories, development of industrial production technology, conducting preliminary preclinical trials in vitro | Gene therapy drug based on non-viral DNA vectors carrying coding parts of BMP-2, BMP-7, OPG, PDGFA, PDGFB and other genes for therapy of periodontal disease and periodontitis   |
| Oxidative stress                  | Completion of: DNA vectors development, depositing of producer strains in depositories, development of industrial production technology, conducting preliminary preclinical trials in vitro | Gene therapy drug based on non-viral DNA vectors carrying coding parts of SOD1, SOD2, SOD3, CAT and other genes. The drug is intended to target a set of disorders of the energetic balance of the organism, deficiency of enzymes of the family of superoxide dismutases and catalases, to prevent the development of atherosclerosis, to protect the organism from oxidative stress and toxic effects of reactive oxygen species, to prevent the development of a spectrum of diseases including, but not limited to, abnormalities in which oxidative stress plays a pathogenetic role in the development of hereditary cardiovascular, oncological, degenerative and autoimmune diseases. The drug is also expected to be used as a preventive agent |
| Scar tissue correction            | Completion of: DNA vectors development, depositing of producer strains in depositories, development of industrial production technology, conducting preliminary preclinical trials in vitro | Gene therapy drug based on non-viral DNA vectors carrying coding parts of SKI, TGFB3, TIMP2, FMOD and other genes for therapy and prevention of scar complications in wound healing  |
| Alopecia                          | Completion of: DNA vectors development, depositing of producer strains in depositories, development of industrial production technology, conducting preliminary preclinical trials in vitro | Gene therapy drug based on non-viral DNA vectors carrying coding parts of SHH, CTNNB1, NOG, WNT7A and other genes for alopecia therapy   |



#### CELL & GENE THERAPY LTD.

Registration No. 9415326 41 Devonshire Street, London, UK, W1G 7AJ



#### **GENETIC DIAGNOSTICS AND THERAPY 21 LTD**

Registration No. 11123914

41 Devonshire Street, London, UK, W1G 7AJ