

Фамилия, Имя, Отчество	Лагарькова Мария Андреевна
Ученая степень	Доктор биологических наук (генетика, клеточная биология, цитология, гистология)
Ученое звание	Член-корреспондент РАН, профессор РАН
Должность	Заведующая лабораторией клеточной биологии, Федеральный научно-клинический центр Физико-химической медицины Федерального медико-биологического агентства, профессор кафедры молекулярной и трансляционной медицины МФТИ, профессор кафедры иммунологии Биологического факультета МГУ им. М.В. Ломоносова
Эл. почта	lagar@vigg.ru lagar@rcpcm.org
Образование и повышение квалификации	Биологический факультет МГУ им. М.В. Ломоносова по специальности «биолог» 1990г. Кандидат биологических наук «молекулярная биология» Доктор биологических наук (генетика, клеточная биология, цитология, гистология)
Область научных интересов	Молекулярная генетика и эпигенетика стволовых клеток
Премии и награды (при наличии)	Нет
Избранные публикации	<p>1: Lebedeva OS, Lagarkova MA. Pluripotent Stem Cells for Modelling and Cell Therapy of Parkinson's Disease. <i>Biochemistry (Mosc)</i>. 2018 Sep;83(9):1046-1056. doi: 10.1134/S0006297918090067. Review. PubMed PMID: 30472943.</p> <p>2: Kharitonov AE, Surdina AV, Lebedeva OS, Bogomazova AN, Lagarkova MA. Possibilities for Using Pluripotent Stem Cells for Restoring Damaged Eye Retinal Pigment Epithelium. <i>Acta Naturae</i>. 2018 Jul-Sep;10(3):30-39. PubMed PMID:30397524; PubMed Central PMCID: PMC6209409.</p> <p>3: Vigont V, Nekrasov E, Shalygin A, Gusev K, Klushnikov S, Illarionov S, Lagarkova M, Kiselev SL, Kaznatcheyeva E. Patient-Specific iPSC-Based Models of Huntington's Disease as a Tool to Study Store-Operated Calcium Entry Drug Targeting. <i>Front Pharmacol</i>. 2018 Jun 29;9:696. doi: 10.3389/fphar.2018.00696. eCollection 2018. PubMed PMID: 30008670; PubMed Central PMCID: PMC6033963.</p> <p>4: Anufrieva KS, Shender VO, Arapidi GP, Pavlyukov MS, Shakhparonov MI, Shnaider PV, Butenko IO, Lagarkova MA, Govorun VM. Therapy-induced stress response is associated with downregulation of pre-mRNA splicing in cancer cells. <i>Genome Med</i>. 2018 Jun 27;10(1):49. doi: 10.1186/s13073-018-0557-y. PubMed PMID: 29950180; PubMed Central PMCID: PMC6020472.</p> <p>5: Panova AV, Bogomazova AN, Lagarkova MA, Kiselev SL. Epigenetic reprogramming by naïve conditions establishes an irreversible state of partial X chromosome reactivation in female stem cells. <i>Oncotarget</i>. 2018 May 18;9(38):25136-25147. doi:</p>

10.18632/oncotarget.25353. eCollection 2018 May 18. PubMed PMID: 29861859; PubMed Central PMCID: PMC5982739.

6: Sultanov R, Lebedeva O, Arapidi G, Lagarkova M, Kiselev S. Methylation profile of induced pluripotent stem cells generated by integration and integration-free approaches. *Data Brief*. 2018 Jan 31;17:662-666. doi: 10.1016/j.dib.2018.01.061. eCollection 2018 Apr. PubMed PMID: 29552616; PubMed Central PMCID: PMC5852269.

7: Holmqvist S, Lehtonen Š, Chumarina M, Puttonen KA, Azevedo C, Lebedeva O, Ruponen M, Oksanen M, Djelloul M, Collin A, Goldwurm S, Meyer M, Lagarkova M, Kiselev S, Koistinaho J, Roybon L. Creation of a library of induced pluripotent stem cells from Parkinsonian patients. *NPJ Parkinsons Dis*. 2016 Jun 2;2:16009. doi: 10.1038/npjparkd.2016.9. eCollection 2016. PubMed PMID: 28725696; PubMed Central PMCID: PMC5516589.

8: Philonenko ES, Shutova MV, Khomyakova EA, Vassina EM, Lebedeva OS, Kiselev SL, Lagarkova MA. Differentiation of Human Pluripotent Stem Cells into Mesodermal and Ectodermal Derivatives Is Independent of the Type of Isogenic Reprogrammed Somatic Cells. *Acta Naturae*. 2017 Jan-Mar;9(1):68-74. PubMed PMID: 28461976; PubMed Central PMCID: PMC5406662.

9: Matyushkina D, Pobeguts O, Butenko I, Vanyushkina A, Anikanov N, Bukato O, Evsyutina D, Bogomazova A, Lagarkova M, Semashko T, Garanina I, Babenko V, Vakhitova M, Ladygina V, Fisunov G, Govorun V. Phase Transition of the Bacterium upon Invasion of a Host Cell as a Mechanism of Adaptation: a *Mycoplasma gallisepticum* Model. *Sci Rep*. 2016 Oct 24;6:35959. doi: 10.1038/srep35959. PubMed PMID: 27775027; PubMed Central PMCID: PMC5075909.

10: Prokofjeva M, Tsvetkov V, Basmanov D, Varizhuk A, Lagarkova M, Smirnov I, Prusakov K, Klinov D, Prassolov V, Pozmogova G, Mikhailov SN. Anti-HIV Activities of Intramolecular G4 and Non-G4 Oligonucleotides. *Nucleic Acid Ther*. 2017 Feb;27(1):56-66. doi: 10.1089/nat.2016.0624. Epub 2016 Oct 20. PubMed PMID: 27763826.

11: Nekrasov ED, Vigont VA, Klyushnikov SA, Lebedeva OS, Vassina EM, Bogomazova AN, Chestkov IV, Semashko TA, Kiseleva E, Suldina LA, Bobrovsky PA, Zimina OA, Ryazantseva MA, Skopin AY, Illarioshkin SN, Kaznacheyeva EV, Lagarkova MA, Kiselev SL. Manifestation of Huntington's disease pathology in human induced pluripotent stem cell-derived neurons. *Mol Neurodegener*. 2016 Apr 14;11:27. doi: 10.1186/s13024-016-0092-5. PubMed PMID: 27080129; PubMed Central PMCID: PMC4832474.

12: Shutova MV, Surdina AV, Ischenko DS, Naumov VA, Bogomazova AN, Vassina EM, Alekseev DG, Lagarkova MA, Kiselev SL. An integrative analysis of reprogramming in human isogenic system identified a clone selection criterion. *Cell Cycle*. 2016;15(7):986-97. doi: 10.1080/15384101.2016.1152425. PubMed PMID: 26919644; PubMed Central PMCID: PMC4889246.

13: Bogomazova AN, Vassina EM, Kiselev SI, Lagarkova MA, Lebedeva OS, Nekrasov ED, Panova AV, Philonenko ES, Khomyakova EA, Tskhovrebova LV, Chestkov IV, Shutova MV. [Genetic Cell Reprogramming: A New Technology for Basic Research and Applied Usage]. *Genetika*. 2015 Apr;51(4):466-78. Review. Russian. PubMed PMID: 26087622.

- 14: Chestkov IV, Khomyakova EA, Vasilieva EA, Lagarkova MA, Kiselev SL. Molecular barriers to processes of genetic reprogramming and cell transformation. *Biochemistry (Mosc)*. 2014 Dec;79(12):1297-307. doi: 10.1134/S0006297914120037. Review. PubMed PMID: 25716723.
- 15: Bogomazova AN, Vassina EM, Goryachkovskaya TN, Popik VM, Sokolov AS, Kolchanov NA, Lagarkova MA, Kiselev SL, Peltek SE. No DNA damage response and negligible genome-wide transcriptional changes in human embryonic stem cells exposed to terahertz radiation. *Sci Rep*. 2015 Jan 13;5:7749. doi: 10.1038/srep07749. PubMed PMID: 25582954; PubMed Central PMCID: PMC4291560.
- 16: Chestkov IV, Vasilieva EA, Illarioshkin SN, Lagarkova MA, Kiselev SL. Patient-Specific Induced Pluripotent Stem Cells for SOD1-Associated Amyotrophic Lateral Sclerosis Pathogenesis Studies. *Acta Naturae*. 2014 Jan;6(1):54-60. PubMed PMID: 24772327; PubMed Central PMCID: PMC3999466.
- 17: Bogomazova AN, Lagarkova MA, Panova AV, Nekrasov ED, Kiselev SL. Reactivation of X chromosome upon reprogramming leads to changes in the replication pattern and 5hmC accumulation. *Chromosoma*. 2014 Mar;123(1-2):117-28. doi: 10.1007/s00412-013-0433-x. Epub 2013 Aug 28. PubMed PMID: 23982752.
- 18: Panova AV, Nekrasov ED, Lagarkova MA, Kiselev SL, Bogomazova AN. Late replication of the inactive x chromosome is independent of the compactness of chromosome territory in human pluripotent stem cells. *Acta Naturae*. 2013 Apr;5(2):54-61. PubMed PMID: 23819036; PubMed Central PMCID: PMC3695353.
- 19: Sharovskaya YY, Philonenko ES, Kiselev SL, Lagarkova MA. De novo reestablishment of gap junctional intercellular communications during reprogramming to pluripotency and differentiation. *Stem Cells Dev*. 2012 Sep 20;21(14):2623-9. doi: 10.1089/scd.2011.0707. Epub 2012 Apr 3. PubMed PMID:22360529.
- 20: International Stem Cell Initiative, Amps K, Andrews PW, Anyfantis G, Armstrong L, Avery S, Baharvand H, Baker J, Baker D, Munoz MB, Beil S, Benvenisty N, Ben-Yosef D, Biancotti JC, Bosman A, Brena RM, Brison D, Caisander G, Camarasa MV, Chen J, Chiao E, Choi YM, Choo AB, Collins D, Colman A, Crook JM, Daley GQ, Dalton A, De Sousa PA, Denning C, Downie J, Dvorak P, Montgomery KD, Feki A, Ford A, Fox V, Fraga AM, Frumkin T, Ge L, Gokhale PJ, Golan-Lev T, Gourabi H, Gropp M, Lu G, Hampl A, Harron K, Healy L, Herath W, Holm F, Hovatta O, Hyllner J, Inamdar MS, Irwanto AK, Ishii T, Jaconi M, Jin Y, Kimber S, Kiselev S, Knowles BB, Kopper O, Kukharensko V, Kuliev A, Lagarkova MA, Laird PW, Lako M, Laslett AL, Lavon N, Lee DR, Lee JE, Li C, Lim LS, Ludwig TE, Ma Y, Maltby E, Mateizel I, Mayshar Y, Mileikovsky M, Minger SL, Miyazaki T, Moon SY, Moore H, Mummery C, Nagy A, Nakatsuji N, Narwani K, Oh SK, Oh SK, Olson C, Otonkoski T, Pan F, Park IH, Pells S, Pera MF, Pereira LV, Qi O, Raj GS, Reubinoff B, Robins A, Robson P, Rossant J, Salekdeh GH, Schulz TC, Sermon K, Sheik Mohamed J, Shen H, Sherrer E, Sidhu K, Sivarajah S, Skottman H, Spits C, Stacey GN, Strehl R, Strelchenko N, Suemori H, Sun B, Suuronen R, Takahashi K, Tuuri T, Venu P, Verlinsky Y, Ward-van Oostwaard D, Weisenberger DJ, Wu Y, Yamanaka S, Young L, Zhou

	Q. Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage. Nat Biotechnol. 2011 Nov 27;29(12):1132-44. doi: 10.1038/nbt.2051. PubMed PMID: 22119741; PubMed Central PMCID: PMC3454460.
Преподаваемые дисциплины	Клеточная биология, биология стволовых клеток
Общий стаж работы, лет	27 лет
Стаж работы по специальности, лет	27 лет