

## Список публикаций Кулемина Николая Александровича за 2017-2022 года

1. Al-Khelaifi F, Yousri NA, Diboun I, Semenova EA, Kostryukova ES, Kulemin NA, Borisov OV, Andryushchenko LB, Larin AK, Generozov EV, Miyamoto-Mikami E, Murakami H, Zempo H, Miyachi M, Takaragawa M, Kumagai H, Naito H, Fuku N, Abraham D, Hingorani A, Donati F, Botrè F, Georgakopoulos C, Suhre K, Ahmetov II, Albagha O, Elrayess MA (2020) Genome-Wide Association Study Reveals a Novel Association Between MYBPC3 Gene Polymorphism, Endurance Athlete Status, Aerobic Capacity and Steroid Metabolism. *Frontiers in Genetics* 11. <https://doi.org/10.3389/fgene.2020.00595>
2. Borisov O, Kulemin N, Ahmetov I, Generozov E (2018) A Novel Multilocus Genetic Model Can Predict Muscle Fibers Composition. *Advances in Intelligent Systems and Computing* 663:164-168. [https://doi.org/10.1007/978-3-319-67846-7\\_16](https://doi.org/10.1007/978-3-319-67846-7_16)
3. Borisov O, Maj C, Kulemin N, Semenova E, Krawitz P, Ahmetov I, Generozov E (2020) Polygenic modeling of muscle fibers composition. *Advances in Intelligent Systems and Computing* 1028 AISC:151-158. [https://doi.org/10.1007/978-3-030-35048-2\\_18](https://doi.org/10.1007/978-3-030-35048-2_18)
4. Boulygina EA, Borisov OV, Valeeva EV, Semenova EA, Kostryukova ES, Kulemin NA, Larin AK, Nabiullina RM, Mavliev FA, Akhatov AM, Andryushchenko ON, Andryushchenko LB, Zmijewski P, Generozov EV, Ahmetov II (2020) Whole genome sequencing of elite athletes. *Biology of Sport* 37:295-304. <https://doi.org/10.5114/biolsport.2020.96272>
5. Grishina EE, Zmijewski P, Semenova EA, Cielszczyk P, Huminska-Lisowska K, Michalowska-Sawczyn M, Maculewicz E, Crewther B, Orysiak J, Kostryukova ES, Kulemin NA, Borisov OV, Khabibova SA, Larin AK, Pavlenko AV, Lyubaeva EV, Popov DV, Lysenko EA, Vepkhvadze TF, Lednev EM, Bondareva EA, Erskine RM, Generozov EV, Ahmetov II (2019) Three DNA Polymorphisms Previously Identified as Markers for Handgrip Strength Are

Associated With Strength in Weightlifters and Muscle Fiber Hypertrophy. *Journal of Strength and Conditioning Research* 33:2602–2607. <https://doi.org/10.1519/JSC.0000000000003304>

6. Guilherme JPLF, Egorova ES, Semenova EA, Kostyukova ES, Kulemin NA, Borisov OV, Khabibova SA, Larin AK, Ospanova EA, Pavlenko AV, Lyubaeva EV, Popov DV, Lysenko EA, Vepkhvadze TF, Lednev EM, Govorun VM, Generozov EV, Ahmetov II, Lancha Junior AH (2019) The A-allele of the FTO gene rs9939609 polymorphism is associated with decreased proportion of slow oxidative muscle fibers and over-represented in heavier athletes. *Journal of Strength and Conditioning Research* 33:691–700. <https://doi.org/10.1519/jsc.0000000000003032>

7. Korostin D, Kulemin N, Naumov V, Belova V, Kwon D, Gorbachev A (2020) Comparative analysis of novel MGISEQ-2000 sequencing platform vs Illumina HiSeq 2500 for whole-genome sequencing. *PLoS ONE* 15. <https://doi.org/10.1371/journal.pone.0230301>

8. Limongi França Guilherme JP, Semenova EA, Zempo H, Martins GL, Lancha AH, Miyamoto-Mikami E, Kumagai H, Tobina T, Shiose K, Kakigi R, Tsuzuki T, Ichinoseki-Sekine N, Kobayashi H, Naito H, Borisov OV, Kostyukova ES, Kulemin NA, Larin AK, Generozov EV, Fuku N, Ahmetov II (2021) Are genome-wide association study identified single-nucleotide polymorphisms associated with sprint athletic status? A replication study with 3 different cohorts. *International Journal of Sports Physiology and Performance* 16:489–495. <https://doi.org/10.1123/IJSP.2019-1032>

9. Pickering C, Suraci B, Semenova EA, Boulygina EA, Kostyukova ES, Kulemin NA, Borisov OV, Khabibova SA, Larin AK, Pavlenko AV, Lyubaeva EV, Popov DV, Lysenko EA, Vepkhvadze TF, Lednev EM, Leonska-Duniec A, Pajak B, Chycki J, Moska W, Lulinska-Kuklik E, Dornowski M, Maszczyk A, Bradley B, Kana-Ah A, Cieszczyk P, Generozov EV, Ahmetov II (2019) A Genome-Wide Association Study of Sprint Performance in Elite Youth Football Players. *Journal of Strength and Conditioning Research* 33:2344–2351. <https://doi.org/10.1519/JSC.0000000000003259>

10. Ramírez JD, Álvarez-Herms J, Castañeda-Babarro A, Larruskain J, de la Piscina XR, Borisov OV, Semenova EA, Kostryukova ES, Kulemin NA, Andryushchenko ON, Larin AK, Andryushchenko LB, Generozov EV, Ahmetov II, Odriozola A (2020) The GALNTL6 Gene rs558129 Polymorphism Is Associated With Power Performance. *Journal of Strength and Conditioning Research* 34:3031–3036. <https://doi.org/10.1519/JSC.0000000000003814>

11. Rozanov VA, Mazo GE, Kulemin NA (2020) Genome-Wide Association Studies in Suicidology: A Review of Recent Achievements. *Russian Journal of Genetics* 56:769–785. <https://doi.org/10.1134/S1022795420070121>

12. Semenova EA, Miyamoto-Mikami E, Akimov EB, Al-Khelaifi F, Murakami H, Zempo H, Kostryukova ES, Kulemin NA, Larin AK, Borisov OV, Miyachi M, Popov DV, Boulygina EA, Takaragawa M, Kumagai H, Naito H, Pushkarev VP, Dyatlov DA, Lekontsev EV, Pushkareva YE, Andryushchenko LB, Elrayess MA, Generozov EV, Fuku N, Ahmetov II (2020) The association of HFE gene H63D polymorphism with endurance athlete status and aerobic capacity: novel findings and a meta-analysis. *European Journal of Applied Physiology*. <https://doi.org/10.1007/s00421-020-04306-8>

13. Varizhuk A, Ischenko D, Tsvetkov V, Novikov R, Kulemin N, Kaluzhny D, Vlasenok M, Naumov V, Smirnov I, Pozmogova G (2017) The expanding repertoire of G4 DNA structures. *Biochimie* 135:54–62. <https://doi.org/10.1016/j.biochi.2017.01.003>

14. Yvert TP, Zempo H, Gabdrakhmanova LJ, Kikuchi N, Miyamoto-Mikami E, Murakami H, Naito H, Cieszczyk P, Leznicka K, Kostryukova ES, Alexeev DG, Egorova ES, Maciejewska-Skrendo A, Larin AK, Generozov EV, Kulemin NA, Ospanova EA, Pavlenko AV, Sawczuk M, Zmijewski P, Lulinska-Kuklik E, Govorun VM, Miyachi M, Ahmetov II, Fuku N (2018) AGTR2 and sprint/power performance: A case-control replication study for rs11091046 polymorphism in two ethnicities. *Biology of Sport* 35:105–109. <https://doi.org/10.5114/biol sport.2018.71599>