Prof. Dr. N.N. Kudryavtseva, Ph.D., Dr.Sci.

Personal Data

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Academic degree: Ph. D., Dr. Sci., Professor in Physiology
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Professor Natalia N. Kudryavtseva (Kudriavtseva), Ph.D., Dr. Sci. is the Head of Neurogenetics of Social Behavior Sector at the Institute of Cytology and Genetics SD RAS, lives in Novosibirsk, Russia. She was lecturer at the Department of Physiology at the Novosibirsk State University (1988-2001). She has been studying the neurophysiological consequences of the chronic social conflicts with the use of the sensory contact model. N.N. Kudryavtseva is an author of this model allowing induces various psychopathological states developing under repeated experience of social defeats in mice of different strains (mixed anxiety/depression state, psychopathology of repeated aggression similar to psychosis, etc). This model facilitates the screening of psychotropic drugs and allows studying therapeutic properties, preventive properties and efficiency under simulated clinical conditions. N.N. Kudryavtseva is author of > 200 scientific papers and monographs. She was awarded by the Gold Medal of the European Scientific-Industrial Chamber (2012) for exceptional achievement in the study of the anxiety phenomenon.

Education

Novosibirsk State University (Novosibirsk) M.D., 1969

I.P. Pavlov Institute of Physiology (Leningrad, now S. Petersburg), Ph.D. in Physiology of Animals and Humans, 1977. Thesis title “Role of serotonin in the mechanisms of hibernation” (Supervisor Prof. N.K. Popova);

I.P. Pavlov Institute of Physiology (Leningrad, now S. Petersburg), Dr.Sci. in Physiology of Animals and Humans, 1992. Thesis title: “Mechanisms of agonistic behavior”.

Appointments

Student	Novosibirsk State University, Chair of Natural Sciences, Department of Physiology, Novosibirsk	1964-1969
Research Assistant	Laboratory of Central Regulation of Endocrine Functions, Institute of Physiology, Novosibirsk	1970-1971
Junior Researcher Senior Researcher Leading Researcher	Laboratory of Behavioral Phenogenetics (Head Prof. Popova N.K.) Institute of Cytology and Genetics SD RAS, Novosibirsk	1971-1996
Head	Neurogenetics of Social Behavior Sector at the Institute of Cytology and Genetics SD RAS, Novosibirsk	1997-present
Visiting Fellow	Cold Spring Harbor Laboratory, Group of Neural Stem Cells (Head Prof. G.N. Enikolopov).	2010
Professor in Physiology	Ministry of Education and Science of the RF № П 27.09.11-0185/06	2011
Head	Laboratory of Neuropathology Modeling	2014-present

Teaching Experience:

1977-1988 Head of the scientific practice of undergraduate and graduate students (Department of Physiology at the Novosibirsk State University)

1988-2001 Lecturer at the Department of Physiology of Novosibirsk State University. "Biological active agents and mechanisms of its actions".

Awarded projects:

1. Universities of Russia (grant 3Í-377-93/897, 1993-1996) (P.I.) "***The modeling of psychopathologies (depression, anxiety, catalepsy) in the experiments"***
2. Russian Foundation for Basic Research (P.I.) (grant 94-04-11519, 1994-1996) ***"The influence of chronic experience of aggression on brain monoaminergic systems"***
3. Ministry of General and Professional Education of the RF (P.I.) (grant 94-10.3-81, 1994-1995) ***"The influence of neuroendocrine status formed in social conflicts on immune systems in male mice."***
4. Ministry of General and Professional Education of the RF (P.I.) (grant 95-0-10. 0-91, 1996-1997) ***"Serotonergic mechanisms of anxiety influence on sexual motivation and gonadal function of male mice".***
5. Frontiers in Genetics (grant 2.071, 1996-1998), (P.I.) ***"Experimental study on neurophysiological basis of genetically defined predisposition to development of depression"***
6. Russian Foundation for Basic Research (P.I.) (grant 97-04-49688, 1997-1999***) "The influence of chronic experience of aggression on brain monoaminergic systems"***
7. Russian Foundation for Basic Research (P.I.) (grant 00-04-49541-a, 2000-2002) ***"Neurobiologocal correlates of learned aggression: Experimental study"***
8. INTAS - RFBR (grant IR-97-0798, 1999-2001) Head of Novosibirsk team "***Serotonergic and opioidergic regulation of behavior: a comparative approach".***
9. Dutch-Russian Research Cooperation, NWO-NR (047-008-04) 2001-2003; Head of Novosibirsk team "***The significance of the kappa-opioid receptor system for the relapse of drug addiction***", Coordinator of Dutch -Russian collaboration is Prof. Van Ree).
10. Fellowship for Leading Scientists of Russia (1994-1996)
11. Fellowship for Leading Scientists of Russia (2000-2002)
12. Interdisciplinary Integrative Projects of Basic Investigations of the Siberian Department of Russian Academy of Sciences (grant № 64, 2006), «***The study on influence of theraherts radiation on biological objects of different complexity***." Head of Institute of Cytology and Genetics SD RAS Team, responsible for the study "The influence of terahertz radiation on animal behavior".
13. Russian Foundation for Basic Research (P.I.) (grant 07-04-00014, 2007-2009) ***"Psychopathology of repeated aggression: Neurobiological aspects***"
14. Russian Foundation for Basic Research (P.I.) (grant 10-04-00083a, 2010-2012) **"Psychopathology of repeated aggression: Fighting deprivation effects"**
15. Program of the Russian Academy of Sciences "Molecular and Cellular Biology" (P.I.) (grant 22.16, 2009-2012) "***From behavior to gene: Molecular mechanisms of agonistic behavior".***
16. Program of the Russian Academy of Sciences «Basic Science for Medicine" (P.I.) (grant 21.28, 2009-2012***) "Chronic anxiety and immune deficiency: Searches of rational therapy. Innovative study".***
17. Russian Foundation for Basic Research (P.I.) (grant 13-04-00072a, 2013-2015) ***"Psychopathology of repeated aggression: Correction of behavior***"
18. Program of the Russian Academy of Sciences "Molecular and Cell Biology" (P.I.) (6,25, 2013-2017) "***Molecular mechanisms of psychoemotional disorders"***

19. Program of the Russian Academy of Sciences «Basic Sciences to Medicine" (16, 2013-2015) "***The study of immune and metabolic disorders in the structure of psychoemotional disorders: Development of innovative approaches to the treatment of immunodeficiency***".

20. Russian Science Foundation (P.I.) (grant 14-15-00063, 2014-2018) "***The role of dopaminergic nigrostriatal system in the development of psychomotor disturbances: Innovative research".***

21. Russian Foundation for Basic Research (P.I.) (grant 17-04-00140/17, 2017-2019) ***"Differentially expressed Slc genes as markers of the changed neurochemical brain function associated with repeated experience of aggression in mice"***.

22. Program of the Russian Academy of Sciences (P.I.) (grant 0324-2015-0024, 0324-2016-0018, 2016-2017) ***"The study of molecular associations of psychogenic immune deficiency by analysis of transcriptome data)".***

23. Program of the Russian Academy of Sciences (P.I.) (grant № 0324-2016-0017, 2016-2017) ***"Molecular mechanisms of psychoemotional disorders development (RNA-SEQ data)".***

24. Russian Foundation for Basic Research (P.I.) (grant 2017-2019) ***"Psychopathology of repeated aggression: Correction of behavior***"

25. Russian Science Foundation (P.I.) (grant 19-15-00026, 2019-2021) "***Psychopathology of repeated aggression: Neurogenomics of addictive states".***

Main fields of interests (Profession):

Behavioral pharmacology, behavior genetics, social biology, biological psychiatry; social and neurophysiological mechanisms of agonistic behavior, drugs and genes that influence on development of behavioral pathologies; modeling of psychoemotional disorders; transcriptomic analysis in brain regions of chronically aggressive and defeated mice, neurogenomics.

Scientific achievement

> 190 papers and chapters in books; Patent "Method for screening of psychotropic drugs", 2008
Results of intellectual achievement: "Databases of differentially expressed genes in brain regions of depressive and aggressive mice" (10 licenses), 2016
Author of the "Sensory Contact Model" which was and is widely used in original version or in modifications (model of chronic social conflicts; chronic social defeat stress model of depression) in the Italy, Germany, Spain, Netherlands, France, Ireland, USA, Canada, Denmark, Iran, Nigeria, Egypt, Ukraine, Russia.

Memberships of Societies:

International Society for Research on Aggression, Council Member (2005-2009; 2018).
Russian Society of Physiologists; European College of Neuropsychopharmacology (ECNP)

Biographical References and Scientific Metrics:
IBC (Cambridge) – TOP 100 Health Professionals in Behavioral Neuroscience, 2007;
IBC (Cambridge) – Leading Scientist of the World in Behavioral Neuroscience 2007;
IBC (Cambridge) – Most Influential Scientists in Behavioral Neuroscience 2016;
IBC (Cambridge) – Recognition of Global Achievement in Behavioral Neuroscience, 2017

Awards

Diploma Di Merito (Diploma of quality) and the Gold Medal of the European Scientific-Industrial Chamber (2012) for exceptional achievement in the study of anxiety phenomenon and search of pharmacological corrections (http://www.mirtorgov.ru).

Reviews, Monographs and Chapters in books

1. **Kudryavtseva N.N.** (1987) Peculiarities in forming agonistic behavior in mice using a sensory contact model. Novosibirsk: Institute of Cytology and Genetics SD RAS. 39 pp. Russian.
2. **Kudryavtseva N.N.**, Bakshtanovskaya I.V. (1988) Development of a depression-like state in submissive male mice of C57BL/6J strain. Novosibirsk: Institute of Cytology and Genetics, 39 p. Russian.
3. **Kudryavtseva N.N**. (1997) Neurophysiological consequences of repeated experience of aggression in daily agonistic confrontations (model, experiments, perspectives) (review). Novosibirsk: Institute of Cytology and Genetics SD RAS, 42 p.
4. **Kudryavtseva N.N.**, Avgustinovich D.F. (1998) Behavioral and physiological markers of experimental depression induced by social conflicts (DISC). Aggress. Behav. 24:271-286.
5. **Kudriavtseva N.N.** (1999) Agonistic behavior: a model, experimental studies, and perspectives. Ross. Fiziol. Zh. im. I.M. Sechenova, 85(1):67-85. Translated by Neurosci. Behav. Physiol. Kudryavtseva N.N. 2000, 30(3):293-305.
6. **Kudryavtseva N.N**. (2000) An experimental approach to the study of learned aggression. Aggress. Behav. 26(3):241-256.
7. **Kudriavtseva N.N**. (2002) Use of the "partition" test in behavioral and pharmacological experiments. Ross. Fiziol. Zh. im. I.M. Sechenova 88(1):90-105. Translated by Neurosci. Behav. Physiol. Kudryavtseva NN 2003, 33(5):461-471.
8. **Kudryavtseva N.N.**, Filipenko M.L., Bakshtanovskaya I.V., Avgustinovich D.F., Alekseenko O.V., Beilina A.G. (2004) Changes in the expression of monoaminergic genes under the influence of repeated experience of agonistic interactions: From behavior to gene. Genetika, 40(6):732-748 (Russian); Russ. J. Genet. 40(6):590-604.
9. **Kudryavtseva N.N**. (2004) Lorenz was right! Or does aggressive energy accumulate? Russ. J. Genet. 40(6):656-662.
10. **Kudryavtseva N.N.**, Avgustinovich D.F., Bakshtanovskaya I.V., Koryakina L.A., Alekseyenko O.V., Lipina T.V., Bondar N.P. **(**2006**)** Experimental studies of hereditary predisposition to the development of depression. In "Animal Models of Biological Psychiatry". Ed. A. Kalueff. NY: Nova Science Publichers *Chapter 5. p.75-95.*
11. **Kudryavtseva N.N**. **(**2006**)** Psychopathology of repeated aggression: a neurobiological aspect. In "Perspectives on the Psychology of Aggression". Ed. JP Morgan. NY: Nova Science Publichers, Inc. Ch. 2. p.35-64.
12. **Kudryavtseva N.N.** Straub tail, the deprivation effect and addiction to aggression. In “Motivation of Health Behavior.” Ed. P.W. O'Neal, NOVA Science Publishers, Inc. 2007. Ch. 7, 97-110.
13. **Kudryavtseva N.N.**, Avgustinovich D.F., Bondar N.P., Tenditnik M.V., Kovalenko I.L. (2008) An experimental approach for the study of psychotropic drug effects under simulated clinical conditions. Curr. Drug Met. 9(4): 352-360.
14. **Kudryavtseva N.N**. Partition test and sexual motivation in male mice. In “Animal Behavior: New Research” Eds: Emilie A. Weber and Lara H. Krause, NOVA Science Publishers, Inc. 2008. Ch. 3, p. 57-72.
15. Bondar N.P., Kovalenko I.L., Avgustinovich D.F., Smagin D.A, **Kudryavtseva N.N.** (2009) Anhedonia in the shadow of chronic social defeat stress, or When the experimental context matters. Open. Behav. Sci. J. *3*, 17-27
16. **Kudryavtseva NN** Sensory contact model: Protocol, control, applications, Horizons in Neuroscience Research. NOVA Science Publishers Inc., New York, 2011, Editors: Andres Costa and Eugenio Villalba, V.3, Ch. 4, pp. 81-100
17. **Kudryavtseva N.N.** Psychopathology of repeated (animal) aggression. Encyclopedia of the Sciences of Learning 2012, Part 16, 2731-2733, DOI: 10.1007/978-1-4419-1428-6_708

18. **Kudryavtseva N.N.** Practice of research in agonistic behavior: Methods, methodology, interpretations. Monograph, Nauka-Center, Novosibirsk, 2012, 172 pp., Russian.

19. **Kudryavtseva N.N**. Neurobiology of aggression: Mice and men. Monograph, Nauka-Center, Novosibirsk, 2013, 271 pp. Russian

20. **Kudryavtseva N.N.**, Markel A.L., Orlov Yu.L. Aggressive behavior: Genetic and physiological mechanisms (review). ISSN 2079_0597, Russ. J. Genet.: Applied Research, 2015, 5, 4, 413–429. Pleiades Publishing, Ltd., 2015.

21. **Kudryavtseva N.N.** (2015) Serotonergic control of aggressive behavior: Novel approaches – new interpretations (Review) Zh. Vyssh. Nerv. Deiat. im. I.P. Pavlova. 65(5), 546-563. Russian.

22. Galyamina A.G., Kovalenko I.L., Smagin D.A., **Kudryavtseva N.N.** (2016) Relationship of anxiety and depression in the development of mixed anxiety/depression disorder. An experimental study of comorbidity mechanisms (Review). Zh. Vyssh. Nerv. Deiat. im. I.P. Pavlova 66(2), 81-201. Translated by Neurosci. Behav. Physiol. (2017) 47, 6.

23. **Kudryavtseva N.N.,** Smagin D.A., Kovalenko I.L., Galyamina A.G., Babenko V.N. (2016) Differentially expressed genes associated with agonistic interactions in the brain of C57BL/6J mice (database). Institute of Cytology and Genetics of SB RAS, Novosibirsk, Publishing House SB RAS, 81p.

24. **Kudryavtseva N.N.,** Shurlygina A.V., Galyamina A.G., Smagin D.A., Kovalenko I.L., Popova N.A., Nikolin V.P., Ilnitskaya S.I., Melnikova E.V., Trufakin V.A. (2017) Immunopathology of mixed anxiety/depression disorder: An experimental approach to the study of immunodeficiency (Review). Zh. Vyssh. Nerv. Deiat. im. I.P. Pavlova 67, 6, 673–694.

25. **Kudryavtseva N.N.,** Kovalenko I.L., Smagin D.A., Galyamina A.G., Babenko V.N. Abnormal social behaviors and dysfunction of autism-related genes associated with daily agonistic interactions in mice. In: Gerlai R.T., ed. *Molecular-Genetic and Statistical Techniques for Behavioral and Neural Research.* San Diego: Academic Press, 2018: ch. 14, 309-344.

Full List of PUBLICATIONS/ARTICLES: >200 papers (1971-2019).
(Kudryavtseva N.N. or Kudriavtseva N.N.)

2019

1. Smagin D.A., Galyamina A.G., Kovalenko I.L., Babenko V.N., **Kudryavtseva N.N**. Aberrant expression of collagen gene family in the brain regions of male mice with behavioral psychopathologies induced by chronic agonistic interactions. BioMed. Res. Int., 2019, Article ID 7276389, 13 pages. https://doi.org/10.1155/2019/7276389. Cold Spring Harbor Laboratory bioRxiv 276063; doi: https://doi.org/10.1101/276063.
2. Galyamina A., Smagin D., Kovalenko I., Belozertseva I., Tamkovich N., **Kudryavtseva N**.N. Lithium chloride treatment increases serotonergic gene expression in the midbrain raphe nuclei of male mice in the chronic social defeat stress model. Eur. Neuropsychopharmacol. 2019, V. 29, Suppl. 1, S197-S198. https://doi.org/10.1016/j.euroneuro.2018.11.329**.**
3. Smagin D., Kovalenko I.L., Galyamina A.G., **Kudryavtseva N.N**. Alteration of neurogenesis-related gene expression in the hippocampus of male mice with pathology of aggressive behavior. Eur. Neuropsychopharmacology, 2019, V. 29, Suppl. 1, S558 https://doi.org/10.1016/j.euroneuro.2018.11.829.
4. Smagin D., Galyamina A.G., Kovalenko I.L., **Kudryavtseva N.N.,** Babenko V.N. PPP1r1b gene and others in the dorsal striatum of mice with movement disturbances. Eur. Neuropsychopharmacology. 2019, V. 29, Suppl. 1, S566. https://doi.org/10.1016/j.euroneuro.2018.11.840.
5. **Kudryavtseva N.N.,** Shurlygina A.V., Galyamina A.G., Smagin D.A., Kovalenko I.L., Popova N.A., Nikolin V.P., Ilnitskaya S.I., Melnikova E.V., Trufakin V.A. Immunopathology of mixed anxiety/depression disorders: An experimental approach to studies of immunodeficiency states. Review, Neurosci. Behav. Physiol., 49, 3, 2019; 384-398 DOI 10.1007/s11055-019-00745-9. Translation from Zh. Vyssh. Nerv. Deiat. im I.P. Pavlova 2017, 67, 6, 673–694
6. Babenko V.N., Smagin D.A., Galyamina A.G., Kovalenko I.L., **Kudryavtseva N.N.** (2019) Differentially expressed *Slc6a* genes as markers of the altered function of neurotransmitter brain systems in pathological conditions induced by repeated agonistic interactions in mice. Zh.Vyssh. Nerv. Deiat. im I.P. Pavlova, 69, 1, 98-112. (Russian)

2018

7. **Kudryavtseva N.N**., Kovalenko I.L., Smagin D.A., Galyamina A.G., Babenko V.N. Neurogenomics of repeated aggression and autistic spectrum disorders: New direction in the experimental study of social behavior. The Bulletin of the International Society for Research on Aggression 2018, Vol 41, No 2, p. 23-24.
8. Babenko V.N., Smagin D.A., Galyamina A.G., Kovalenko I.L., **Kudryavtseva N.N**. (2018) Altered *Slc25* family gene expression as markers of mitochondrial dysfunction in brain regions under experimental mixed anxiety/depression-like disorder. BMC Neurosci 19:79 https://doi.org/10.1186/s12868-018-0480-6
9. **Kudryavtseva N.N.,** Kovalenko I.L., Smagin D.A., Galyamina A.G., Babenko V.N. Abnormal social behaviors and dysfunction of autism-related genes associated with daily agonistic interactions in mice. In: Gerlai R.T., ed. *Molecular-Genetic and Statistical Techniques for Behavioral and Neural Research.* San Diego: Academic Press, 2018: ch. 14, 309-344. Elsevier**,** ISBN: 9780128041161 **Q1** bioRxiv 125674; doi: https://doi.org/10.1101/125674.
10. Smagin D.A., Galyamina A.G., Kovalenko I.L., Babenko V.N., Tamkovich N.V., Borisov S.A., Tolstikova T.G., **Kudryavtseva N.N.** (2018) Altered expression of neurotransmitter genes in the

dorsal striatum of male mice with psychomotor disturbances. Zh. Vyssh. Nerv. Deiat. im I.P. Pavlova, 2018. 68 (2): 227-249. 10.7868/S0044467718020089 (Russian).

11. Smagin D.A., Kovalenko I.L., Galyamina A.G., Orlov Yu.L., Babenko V.N., **Kudryavtseva N.N**. Heterogeneity of brain ribosomal genes expression following repeated experience of aggression in male mice as revealed by RNA-Seq. Mol. Neurobiol. 2018. 55 (1): 390-401. doi: 10.1007/s12035-016-0327-z.
12. Galyamina A.G., Kovalenko I.L., Smagin D.A., Kudryavtseva N.N. (2018) Changes in the expression of neurotransmitter system genes in the ventral tegmental area in depressed mice: RNA-SEQ Data. Neurosci Behav Physiol, 48, 5, 591-602 DOI: 10.1007/s11055-018-0605-5

2017

13. **Kudryavtseva N.N.,** Smagin D.A., Kovalenko I.L., Galyamina A.G., Vishnivetskaya G.B., Babenko V.N., Orlov Yu.L. (2017) Serotonergic genes in the development of anxiety/depression-like state and pathology of aggressive behavior in male mice: RNA-seq data. Mol. Biol., 51, 2, 251–262.
14. Galyamina A.G., Kovalenko I.L., Smagin D.A., **Kudryavtseva N.N.** (2017) Altered expression of neurotransmitters genes in the ventral tegmental area of depressive male mice: RNA-Seq. Zh. Vyssh. Nerv. Deiat. im I.P. Pavlova 1, 113-118. (Russian)
15. Smagin D.A., Kovalenko I.L., Galyamina A.G., Orlov Yu.L., Babenko V.N., **Kudryavtseva N.N.** (2016) Heterogeneity of brain ribosomal genes expression following repeated experience of aggression in male mice as revealed by RNA-Seq. Mol. Neurobiol. 12, doi:10.1007/s12035-016-0327-z (2017).
16. Babenko V.N., Smagin D.A., **Kudryavtseva NN.** (2017) RNA-Seq mouse brain regions expression data analysis: Focus on *ApoE* functional network. J. Integr. Bioinform. 20170024, 1-16.
17. **Kudryavtseva N.N.**, Kovalenko I.L., Smagin D.A., Galyamina A.G., Babenko V.N. (2017) Abnormality of social behavior and dysfunction of autism related gene expression developing under chronic social defeat stress in male mice. Eur. Neuropsychopharmacol., V. 27, Suppl. 4, S678-S679.
18. Smagin D.A., Kovalenko I.L., Galyamina A.G., **Kudryavtseva N.N.** (2017) Altered serotonergic gene expression in the brain regions of male mice with anxiety/depression-like state and pathology of aggressive behavior. Eur. Neuropsychopharmacol., V. 27, Suppl. 4, S675-S676.
19. Galyamina A.G., Smagin D.A., Kovalenko I.L., Tolstikova T.G., **Kudryavtseva N.N. (**2017) Psychomotor disturbances and changes in the expression of neurotransmitter genes in the dorsal striatum of aggressive and defeated male mice. Eur. Neuropsychopharmacol., V. 27, Suppl. 4, S677.

2016

20. Kovalenko I.L., **Kudryavtseva N.N.** (2016) Changes in the social behavior of male CBA/Lac mice in response to agonistic interactions. Neurosci. Behav. Physiol. 46, 9, November. Translated from Zh. Vyssh. Nerv. Deiat. im I.P. Pavlova 2015, 65, 4, 486–497.
23. Smagin D.A., Kovalenko I.L., Galyamina A.G., Bragin A.O., Orlov Yu.L., **Kudryavtseva N.N**. (2016) Dysfunction in ribosomal gene expression in the hypothalamus and hippocampus following chronic social defeat stress in male mice as revealed by RNA-seq. Neur. Plast. Article ID 3289187, 6 p.
24. Kovalenko I.L., Smagin D.A., Galyamina A.G., Orlov Y.L., **Kudryavtseva N.N**. (2016) Changes in the expression of dopaminergic genes in brain structures of male mice exposed to chronic social defeat stress: An RNA-seq study. Mol. Biol.(Mosk). 50(1), 184-187.
25. Vishnivetskaya G.B., Avgustinovich D.F., **Kudryavtseva N.N.** (2016) Resistance of DBA/2J mice to the chronic social defeat stress. Zh. Vyssh. Nerv. Deiat. im I.P. Pavlova 66, 3, 338-351
26. Galyamina A.G., Kovalenko I.L., Smagin D.A., **Kudryavtseva N.N.** (2016) Relationship of anxiety and depression in the development of mixed anxiety/depression disorder. An experimental study of comorbidity mechanisms (Review). Zh. Vyssh. Nerv. Deiat. im I.P. Pavlova 66(2):181-201. Russian.

27. Galyamina A.G., Kovalenko I.L., Smagin D.A., **Kudryavtseva N.N.** (2016) Relationship of anxiety and depression in the development of mixed anxiety/depression disorder. An Experimental study of comorbidity mechanisms (Review) Zh.Vyssh. Nerv. Deiat. im. I.P. Pavlova., 66(2),181-201, Review (Russian). Translated by Neurosci. Behav. Physiol. 2017, 47, 6, 699-713

28. **Kudryavtseva N.N.,** Smagin D.A., Kovalenko I.L., Galyamina A.G., Orlov Y.L., Babenko V.N. (2016) Transcriptome profiles of gene expression in brain of male mice with repeated experience of aggression as revealed by RNA-Seq. Eur. Neuropsychopharmacol. V. 26, Suppl. 2, S179.

29. **Kudryavtseva N.N.,** Smagin D.A., Kovalenko I.L., Galyamina A.G., Babenko V.N. Differentially expressed genes associated with agonistic interactions in the brain of C57BL/6J mice (database). 2016, Institute of Cytology and Genetics of SD RAS, Novosibirsk Publishing House SB RAS, 81 p. **(Russian).**

2015

30. **Kudryavtseva N.N.,** Markel A.L., Orlov Yu.L. Aggressive behavior: Genetic and physiological mechanisms. ISSN 2079_0597, Russ. J. Genet.: Applied research, 2015, 5, 4, 413–429. © Pleiades Publishing, Ltd., 2015.

31. **Kudryavtseva N.N.** (2015) Serotonergic control of aggressive behavior: Novel approaches – new interpretations (Review). Zh.Vyssh. Nerv. Deiat. im I.P. Pavlova 65(5), 546-563 (Russian).

32. Smagin D.A**., Kudryavtseva N.N.** (2015) Correction of fighting deprivation effect in male mice with repeated experience of aggression. Eur. Neuropsychopharmacol. 25, Suppl. 2, S282.

33. Kovalenko I.L., Smagin D.A., Galyamina A.G., **Kudryavtseva N.N.** (2015) Hyperactivity and abnormal exploratory activity developing in the CD-1 male mice under chronic experience of aggression and social defeats in daily agonistic interactions. J. Behav. Brain Sci. 5, 11, 478-490.

34. Smagin D.A., Park J-H, Michurina T.V., Peunova N., Glass Z., Sayed K., Bondar N.P., Kovalenko I.L., **Kudryavtseva N.N.,** Enikolopov G. (2015) Altered hippocampal neurogenesis and amygdalar neuronal activity in adult mice with repeated experience of aggression. Front. Neurosci.**9**:443. doi: 10.3389/fnins.2015.00443

2014

35. Kovalenko I.L., Galyamina A.G., Smagin D.A., Michurina T.V., **Kudryavtseva N.N.,** Enikolopov G. (2014) Extended effect of chronic social defeat stress in childhood on the behaviors in adulthood. Plos One 9(3): e91762.

36. Shurlygina A.V., Galiamina A.G., Mel'nikova E.V., Panteleeva N.G., Tenditnik M.V., Trufakin V.A., **Kudriavtseva N.N.** (2014) Effects of roncoleukin on immune parameters and mixed anxiety/depression state induced by chronic social defeat stress in male mice. Ross. Fiziol. Zh. im. I.M. Sechenova, 100, 2, 201-214. Translation by Neurosci. Behav. Physiol. 2015, 45, 8, 902-909

37. **Kudryavtseva N.N.,** Smagin D.A., Kovalenko I.L., Vishnivetskaya G.B. (2014) Repeated positive fighting experience in male inbred mice. Nature Protocol. 9**,** 11, 2705 - 2717.

38. Smagin D.A**., Kudryavtseva N.N**. (2014) Anxiogenic and anxiolytic effects of lithium chloride under preventive and therapeutic treatments of male mice with repeated experience of aggression Zh. Vyssh. Nerv. Deiat. im I.P. Pavlova 64, 6, 646-659.

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Selected Talks:

Kudryavtseva N.N. Neurobiological consequences of chronic social conflict: anxious depression (experimental study). Invited lecture, Behavioural Neuroscience Department, Institute of Developmental Genetics, Ingolstaedter Landstrasse 1 - D - 85764, Munich / Neuherberg – Germany; 29, November, 2007 (Host Dr. Sabine Hölter-Koch)

Kudryavtseva N.N. Psychopathology of repeated aggression: an experimental approach. Invited lecture, Faculty of Psychology, Department of Psychobiology, University of Valencia, COLEGIO MAYOR LUIS VIVES, Avda. Blasco Ibañez, 23, Apartado 22109, 46071, Valencia, Spain, 16, April, 2008 (Host Dr. M.,Martinez).

Kudryavtseva N.N., Bondar N.P., Smagin D.A., Van Ree J.M. Involvement of brain opioidergic systems in the effects of repeated aggression. Workshop: "Context, Causes and Consequences of Conflict", Lorentz Center, Leiden University, P.O. Box 9506, 2300 RA, Leiden, The Netherlands, September, 2009.

Kudryavtseva N.N. Psychopathology of repeated aggression: an experimental study. Invited lecture, National Research Centre "Kurchatov Institute"of NBIC, Department of Neuroscience, Moscow, 123098, sq.ak. Kurchatov h.1, 13 December, 2012 (Host K.V. Anokhin)

Kudryavtseva N.N. Psychopathology of positive fighting experience: a neurobiological aspect. Plenary report 23rd Multidisciplinary International Neuroscience and Biological Psychiatry Conference "Stress and Behavior" ISBS Conference 16-19 May, 2016. Saint Petersburg.

Kudryavtseva N.N. Neurobiological consequences of chronic social defeat stress: From behavior to gene. Symposium "Stress: Physiological effects, pathological consequences, and treatment I.P. Pavlov' Institute of Physiology RAS, Petersburg, 10-12 October, 2017.

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