

# Galia Zamaratskaia

## List of Publications by Year in descending order

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115  
papers

2,963  
citations

159358

30  
h-index

197535

49  
g-index

117  
all docs

117  
docs citations

117  
times ranked

2430  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biochemical, nutritional and genetic effects on boar taint in entire male pigs. <i>Animal</i> , 2009, 3, 1508-1521.	1.3	173
2	Gels mimicking antibodies in their selective recognition of proteins. <i>Chromatographia</i> , 1997, 44, 227-234.	0.7	172
3	Effects of pharmaceuticals present in aquatic environment on Phase I metabolism in fish. <i>Environmental Toxicology and Pharmacology</i> , 2015, 40, 430-444.	2.0	107
4	Effect of a Gonadotropin-releasing Hormone Vaccine (Improvac <sup>TM</sup> ) on Steroid Hormones, Boar Taint Compounds and Performance in Entire Male Pigs. <i>Reproduction in Domestic Animals</i> , 2008, 43, 351-359.	0.6	106
5	Long-term effect of vaccination against gonadotropin-releasing hormone, using Improvac <sup>®</sup> , on hormonal profile and behaviour of male pigs. <i>Animal Reproduction Science</i> , 2008, 108, 37-48.	0.5	101
6	Early immunocastration of male pigs with Improvac <sup>®</sup> – Effect on boar taint, hormones and reproductive organs. <i>Vaccine</i> , 2011, 29, 9514-9520.	1.7	79
7	The effect of age on distribution of skatole and indole levels in entire male pigs in four breeds: Yorkshire, Landrace, Hampshire and Duroc. <i>Meat Science</i> , 2004, 67, 351-358.	2.7	75
8	Comparison of xenobiotic-metabolising human, porcine, rodent, and piscine cytochrome P450. <i>Toxicology</i> , 2017, 375, 10-27.	2.0	68
9	Influence of vacuum skin packaging on color stability of beef longissimus lumborum compared with vacuum and high-oxygen modified atmosphere packaging. <i>Meat Science</i> , 2012, 92, 604-609.	2.7	65
10	Regulation of 3 $\beta$ -Hydroxysteroid Dehydrogenase/5 $\beta$ - $\Delta^4$ Isomerase: A Review. <i>International Journal of Molecular Sciences</i> , 2013, 14, 17926-17942.	1.8	65
11	Plasma skatole and androstenone levels in entire male pigs and relationship between boar taint compounds, sex steroids and thyroxine at various ages. <i>Livestock Science</i> , 2004, 87, 91-98.	1.2	63
12	Gender-related Differences in Cytochrome P450 in Porcine Liver – Implication for Activity, Expression and Inhibition by Testicular Steroids. <i>Reproduction in Domestic Animals</i> , 2011, 46, 616-623.	0.6	61
13	Review of analytical methods to measure boar taint compounds in porcine adipose tissue: The need for harmonised methods. <i>Meat Science</i> , 2012, 90, 9-19.	2.7	57
14	EROD and MROD as Markers of Cytochrome P450 1A Activities in Hepatic Microsomes from Entire and Castrated Male Pigs. <i>Sensors</i> , 2009, 9, 2134-2147.	2.1	54
15	Age-related Variation of Plasma Concentrations of Skatole, Androstenone, Testosterone, Oestradiol-17beta, Oestrone Sulphate, Dehydroepiandrosterone Sulphate, Triiodothyronine and IGF-1 in Six Entire Male Pigs. <i>Reproduction in Domestic Animals</i> , 2004, 39, 168-172.	0.6	53
16	Effect of live weight and dietary supplement of raw potato starch on the levels of skatole, androstenone, testosterone and oestrone sulphate in entire male pigs. <i>Livestock Science</i> , 2005, 93, 235-243.	1.2	53
17	Effect of testicular steroids on catalytic activities of cytochrome P450 enzymes in porcine liver microsomes. <i>Food and Chemical Toxicology</i> , 2007, 45, 676-681.	1.8	52
18	Comparison of cytochrome P450 concentrations and metabolic activities in porcine hepatic microsomes prepared with two different methods. <i>Toxicology in Vitro</i> , 2011, 25, 343-346.	1.1	50

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19	Aggressive and sexual behaviour of growing and finishing pigs reared in groups, without castration. <i>Acta Agriculturae Scandinavica - Section A: Animal Science</i> , 2006, 56, 109-119.	0.2	48
20	Effects of sex, weight, diet and hCG administration on levels of skatole and indole in the liver and hepatic activities of cytochromes P450E1 and P450A6 in pigs. <i>Meat Science</i> , 2006, 72, 331-338.	2.7	47
21	High-Meat-Protein High-Fat Diet Induced Dysbiosis of Gut Microbiota and Tryptophan Metabolism in Wistar Rats. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 6333-6346.	2.4	45
22	Effects of raw potato starch and live weight on fat and plasma skatole, indole and androstenone levels measured by different methods in entire male pigs. <i>Food Chemistry</i> , 2007, 101, 439-448.	4.2	43
23	In vivo effect of dried chicory root ( <i>Cichorium intybus</i> L.) on xenobiotica metabolising cytochrome P450 enzymes in porcine liver. <i>Toxicology Letters</i> , 2011, 200, 88-91.	0.4	43
24	Clotrimazole, but not dexamethasone, is a potent in vitro inhibitor of cytochrome P450 isoforms CYP1A and CYP3A in rainbow trout. <i>Chemosphere</i> , 2013, 92, 1099-1104.	4.2	43
25	Modulation of porcine cytochrome P450 enzyme activities by surgical castration and immunocastration. <i>Animal</i> , 2009, 3, 1124-1132.	1.3	41
26	Boar Taint is Related to Endocrine and Anatomical Changes at Puberty but not to Aggressive Behaviour in Entire Male Pigs. <i>Reproduction in Domestic Animals</i> , 2005, 40, 500-506.	0.6	39
27	Early vaccination with Improvac®: effects on performance and behaviour of male pigs. <i>Animal</i> , 2012, 6, 87-95.	1.3	38
28	In vitro effects of the citrus flavonoids diosmin, naringenin and naringin on the hepatic drug-metabolizing CYP3A enzyme in human, pig, mouse and fish. <i>Biochemical Pharmacology</i> , 2016, 110-111, 109-116.	2.0	37
29	Cadmium, total mercury, and lead in blood and associations with diet, sociodemographic factors, and smoking in Swedish adolescents. <i>Environmental Research</i> , 2021, 197, 110991.	3.7	35
30	Expression and activities of hepatic cytochrome P450 (CYP1A, CYP2A and CYP2E1) in entire and castrated male pigs. <i>Animal</i> , 2012, 6, 271-277.	1.3	34
31	In vitro inhibition of human CYP2E1 and CYP3A by quercetin and myricetin in hepatic microsomes is not gender dependent. <i>Toxicology</i> , 2017, 381, 10-18.	2.0	33
32	Effects of early vaccination with Improvac® on the development and function of reproductive organs of male pigs. <i>Animal Reproduction Science</i> , 2011, 127, 50-55.	0.5	30
33	Regulation of Porcine Hepatic Cytochrome P450 – Implication for Boar Taint. <i>Computational and Structural Biotechnology Journal</i> , 2014, 11, 106-112.	1.9	30
34	Comparison of three fluorescent CYP3A substrates in two vertebrate models: pig and Atlantic salmon. <i>Animal</i> , 2012, 6, 633-640.	1.3	29
35	<i>In Vitro</i> Gender-Dependent Inhibition of Porcine Cytochrome P450 Activity by Selected Flavonoids and Phenolic Acids. <i>BioMed Research International</i> , 2015, 2015, 1-7.	0.9	29
36	Hydrolysable tannin fed to entire male pigs affects intestinal production, tissue deposition and hepatic clearance of skatole. <i>Veterinary Journal</i> , 2015, 204, 162-167.	0.6	29

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37	Exploratory Survey on European Consumer and Stakeholder Attitudes towards Alternatives for Surgical Castration of Piglets. <i>Animals</i> , 2020, 10, 1758.	1.0	29
38	Biochemical characteristics and potential applications of ancient cereals - An underexploited opportunity for sustainable production and consumption. <i>Trends in Food Science and Technology</i> , 2021, 107, 114-123.	7.8	29
39	Gene expression of 3 $\beta$ -hydroxysteroid dehydrogenase and 17 $\beta$ -hydroxysteroid dehydrogenase in relation to androstenone, testosterone, and estrone sulphate in gonadally intact male and castrated pigs. <i>Journal of Animal Science</i> , 2007, 85, 2457-2463.	0.2	27
40	Simultaneous determination of flavonols and phenolic acids by HPLC-CoulArray in berries common in the Nordic diet. <i>LWT - Food Science and Technology</i> , 2016, 74, 128-134.	2.5	26
41	Biomarker response, health indicators, and intestinal microbiome composition in wild brown trout ( <i>Salmo trutta m. fario</i> L.) exposed to a sewage treatment plant effluent-dominated stream. <i>Science of the Total Environment</i> , 2018, 625, 1494-1509.	3.9	26
42	Feeding dried chicory root to pigs decrease androstenone accumulation in fat by increasing hepatic 3 $\beta$ -hydroxysteroid dehydrogenase expression. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2012, 130, 90-95.	1.2	24
43	The effects of sewage treatment plant effluents on hepatic and intestinal biomarkers in common carp ( <i>Cyprinus carpio</i> ). <i>Science of the Total Environment</i> , 2018, 635, 1160-1169.	3.9	23
44	<i>In Vitro</i> Cytochrome P450 2E1 and 2A Activities in the Presence of Testicular Steroids. <i>Reproduction in Domestic Animals</i> , 2011, 46, 149-154.	0.6	22
45	Constitutive expression and activity of cytochrome P450 in conventional pigs. <i>Research in Veterinary Science</i> , 2017, 111, 75-80.	0.9	22
46	Immunocastration of Male Pigs – Situation Today. <i>Procedia Food Science</i> , 2015, 5, 324-327.	0.6	21
47	Effect of hCG administration on the relationship between testicular steroids and indolic compounds in fat and plasma in entire male pigs. <i>Meat Science</i> , 2006, 72, 339-347.	2.7	19
48	Immunocastration as Alternative to Surgical Castration in Pigs. , 2017, , .		19
49	Relationship between the activities of cytochromes P4502E1 and P4502A6 and skatole content in fat in entire male pigs fed with and without raw potato starch. <i>Livestock Science</i> , 2005, 95, 83-88.	1.2	18
50	Impact of sourdough fermentation on appetite and postprandial metabolic responses – a randomised cross-over trial with whole grain rye crispbread. <i>British Journal of Nutrition</i> , 2017, 118, 686-697.	1.2	18
51	Free Oestrone in Adipose Tissue and its Relation to Androstenone and Skatole in Entire Male Pigs. <i>Reproduction in Domestic Animals</i> , 2005, 40, 156-160.	0.6	17
52	Sub-lethal effects and bioconcentration of the human pharmaceutical clotrimazole in rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Chemosphere</i> , 2016, 159, 10-22.	4.2	17
53	Novel urinary alkylresorcinol metabolites as biomarkers of whole grain intake in free-living Swedish adults. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1700015.	1.5	17
54	Effects of hCG Stimulation on Hepatic Activities of Cytochromes P4502E1 and P4502A in Pubertal Male Pigs. <i>Reproduction in Domestic Animals</i> , 2008, 43, 147-152.	0.6	16

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55	Verapamil does not modify catalytic activity of CYP450 in rainbow trout after long-term exposure. <i>Ecotoxicology and Environmental Safety</i> , 2012, 79, 148-152.	2.9	16
56	<i>In vitro</i> and <i>In vivo</i> Association of Porcine Hepatic Cytochrome P450 3A and 2C Activities with Testicular Steroids. <i>Reproduction in Domestic Animals</i> , 2012, 47, 891-898.	0.6	16
57	Moving towards taint-free pork – alternatives to surgical castration. <i>Acta Veterinaria Scandinavica</i> , 2006, 48, 1.	0.5	15
58	Consumption of whole grain/bran rye instead of refined wheat decrease concentrations of TNF-R2, e-selectin, and endostatin in an exploratory study in men with prostate cancer. <i>Clinical Nutrition</i> , 2020, 39, 159-165.	2.3	14
59	Expression of hepatic 3 $\beta$ -hydroxysteroid dehydrogenase and sulfotransferase 2A1 in entire and castrated male pigs. <i>Molecular Biology Reports</i> , 2012, 39, 7927-7932.	1.0	13
60	Casein Breakdown in Bovine Milk by a Field Strain of <i>Staphylococcus aureus</i> . <i>Journal of Food Protection</i> , 2013, 76, 1638-1642.	0.8	13
61	Chestnut wood extract in boar diet reduces intestinal skatole production, a boar taint compound. <i>Agronomy for Sustainable Development</i> , 2016, 36, 1.	2.2	13
62	Porcine cytochrome 2A19 and 2E1. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2019, 124, 32-39.	1.2	13
63	Strategies to Meet Nutritional Requirements and Reduce Boar Taint in Meat from Entire Male Pigs and Immunocastrates. <i>Animals</i> , 2020, 10, 1950.	1.0	13
64	Effect of single-sex or mixed rearing and live weight on performance, technological meat quality and sexual maturity in entire male and female pigs fed raw potato starch. <i>Acta Agriculturae Scandinavica - Section A: Animal Science</i> , 2005, 55, 80-90.	0.2	12
65	Para-nitrophenol hydroxylation by fish liver microsomes: kinetics and effect of selective cytochrome P450 inhibitors. <i>Fish Physiology and Biochemistry</i> , 2011, 37, 969-976.	0.9	12
66	Dried chicory root modifies the activity and expression of porcine hepatic CYP3A but not 2C – Effect of <i>in vitro</i> and <i>in vivo</i> exposure. <i>Food and Chemical Toxicology</i> , 2012, 50, 4175-4179.	1.8	12
67	Does dexamethasone affect hepatic CYP450 system of fish? Semi-static <i>in-vivo</i> experiment on juvenile rainbow trout. <i>Chemosphere</i> , 2015, 139, 155-162.	4.2	12
68	Complex effects of pollution on fish in major rivers in the Czech Republic. <i>Ecotoxicology and Environmental Safety</i> , 2018, 164, 92-99.	2.9	12
69	Chicken-eaters and pork-eaters have different gut microbiota and tryptophan metabolites. <i>Scientific Reports</i> , 2021, 11, 11934.	1.6	12
70	Gender-related differences in the formation of skatole metabolites by specific CYP450 in porcine hepatic S9 fractions. <i>Animal</i> , 2015, 9, 635-642.	1.3	11
71	Skatole metabolites in urine as a biological marker of pigs with enhanced hepatic metabolism. <i>Animal</i> , 2016, 10, 1734-1740.	1.3	11
72	Effect of human pharmaceuticals common to aquatic environments on hepatic CYP1A and CYP3A-like activities in rainbow trout ( <i>Oncorhynchus mykiss</i> ): An <i>in vitro</i> study. <i>Chemosphere</i> , 2018, 205, 380-386.	4.2	11

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73	In vitro effects of rebaudioside A, stevioside and steviol on porcine cytochrome p450 expression and activity. <i>Food Chemistry</i> , 2018, 258, 245-253.	4.2	11
74	In vitro effects of diosmin, naringenin, quercetin and indole-3-carbinol on fish hepatic CYP1A1 in the presence of clotrimazole and dexamethasone. <i>Chemosphere</i> , 2018, 192, 105-112.	4.2	11
75	Inter-relationships between the metrics of instrumental meat color and microbial growth during aerobic storage of beef at 4°C. <i>Acta Agriculturae Scandinavica - Section A: Animal Science</i> , 2015, 65, 97-106.	0.2	10
76	Effects of High Intakes of Fructose and Galactose, with or without Added Fructooligosaccharides, on Metabolic Factors, Inflammation, and Gut Integrity in a Rat Model. <i>Molecular Nutrition and Food Research</i> , 2021, 65, e2001133.	1.5	10
77	Investigation of Testosterone, Androstenone, and Estradiol Metabolism in HepG2 Cells and Primary Culture Pig Hepatocytes and Their Effects on 17βHSD7 Gene Expression. <i>PLoS ONE</i> , 2012, 7, e52255.	1.1	9
78	Phase I metabolism of 3-methylindole, an environmental pollutant, by hepatic microsomes from carp ( <i>Cyprinus carpio</i> ) and rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Chemosphere</i> , 2016, 150, 304-310.	4.2	9
79	Perspectives and safety of horsemeat consumption. <i>International Journal of Food Science and Technology</i> , 2020, 55, 942-952.	1.3	9
80	Effect of polymorphism in the porcine cytochrome b5 (CYB5A) gene on androstenone and skatole concentrations and sexual development in Swedish pig populations. <i>Animal</i> , 2008, 2, 190-196.	1.3	8
81	Tissue-specific expression and activity of cytochrome P450 1A and 3A in rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 1078-1084.	1.0	8
82	Application of LC-MS for Determination of Indole and 3-Methylindole in Porcine Adipose Tissue. <i>Chromatographia</i> , 2006, 64, 435-439.	0.7	7
83	Effect of Naringenin, Quercetin, and Sesamin on Xenobiotica-Metabolizing CYP1A and CYP3A in Mice Offspring after Maternal Exposure to Persistent Organic Pollutants. <i>BioMed Research International</i> , 2017, 2017, 1-8.	0.9	7
84	In vitro investigations of the metabolism of Victoria pure blue BO dye to identify main metabolites for food control in fish. <i>Chemosphere</i> , 2020, 238, 124538.	4.2	7
85	A modified high performance liquid chromatographic method for simultaneous quantification of skatole and indole in porcine plasma. <i>Acta Veterinaria Brno</i> , 2012, 81, 153-158.	0.2	6
86	Simultaneous determination of cytochrome P450 1A, 2A and 3A activities in porcine liver microsomes. <i>Interdisciplinary Toxicology</i> , 2012, 5, 150-154.	1.0	6
87	Improvac does not modify the expression and activities of the major drug metabolizing enzymes cytochrome P450 3A and 2C in pigs. <i>Vaccine</i> , 2012, 30, 3515-3518.	1.7	6
88	Determination of biogenic amines in aerobically stored beef using high-performance thin-layer chromatography densitometry. <i>Acta Agriculturae Scandinavica - Section A: Animal Science</i> , 2016, 66, 199-205.	0.2	6
89	Co-treatment with indole-3-carbinol and resveratrol modify porcine CYP1A and CYP3A activities and expression. <i>Xenobiotica</i> , 2018, 48, 232-240.	0.5	6
90	Effect of hCG Stimulation on Plasma Androstenone Concentrations and Cytochrome b5 Levels in Testicular Tissue. <i>Reproduction in Domestic Animals</i> , 2007, 42, 105-108.	0.6	5

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91	Studies on 5 $\alpha$ -androst-16-en-3-one binding to porcine serum, plasma and testicular cytosolic fraction and to human serum. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2008, 111, 24-28.	1.2	5
92	In vitro inhibition of porcine cytochrome P450 by 17 $\beta$ -estradiol and 17 $\alpha$ -estradiol. <i>Interdisciplinary Toxicology</i> , 2011, 4, 78-84.	1.0	5
93	In vitro inhibition of 7-ethoxyresorufin-O-deethylase (EROD) and p-nitrophenol hydroxylase (PNPH) activities by sesamin in hepatic microsomes from two fish species. <i>Molecular Biology Reports</i> , 2013, 40, 457-462.	1.0	5
94	End-product inhibition of skatole-metabolising enzymes CYP1A, CYP2A19 and CYP2E1 in porcine and piscine hepatic microsomes. <i>Toxicology Letters</i> , 2019, 303, 67-71.	0.4	5
95	Fatty acid composition of salted and fermented products from Baikal omul ( <i>Coregonus autumnalis</i> ) Tj ETQq1 1 0.784314 rgBT /Overlo	1.4	5
96	Hepatic Ethoxy $\alpha$ , Methoxy $\alpha$ and Pentoxyresorufin <i>O</i> -dealkylase Activities in Landrace and Duroc Pigs Stimulated with hCG. <i>Reproduction in Domestic Animals</i> , 2010, 45, e269-74.	0.6	4
97	Comparable constitutive expression and activity of cytochrome P450 between the lobes of the porcine liver. <i>Toxicology in Vitro</i> , 2014, 28, 1190-1195.	1.1	4
98	Tissue-specific regulation of CYP3A by hydrolysable tannins in male pigs. <i>Xenobiotica</i> , 2016, 46, 591-596.	0.5	4
99	7-Hydroxylation of warfarin is strongly inhibited by sesamin, but not by episesamin, caffeic and ferulic acids in human hepatic microsomes. <i>Food and Chemical Toxicology</i> , 2018, 113, 14-18.	1.8	4
100	CYP1A1 activity in rainbow trout is inhibited by the environmental pollutant p-cresol. <i>Environmental Toxicology and Pharmacology</i> , 2018, 62, 199-202.	2.0	4
101	Effects of acetone, acetonitrile, ethanol, methanol and DMSO on cytochrome P450 in rainbow trout ( <i>Oncorhynchus mykiss</i> ) hepatic microsomes. <i>Toxicology Mechanisms and Methods</i> , 2015, 25, 501-6.	1.3	4
102	Tolbutamide hydroxylation by hepatic microsomes from Atlantic salmon ( <i>Salmo salar</i> L.). <i>Molecular Biology Reports</i> , 2012, 39, 6867-6873.	1.0	3
103	Expression of the hepatic skatole- and androstenone-metabolising enzymes in entire male pigs of two live weights. <i>Livestock Science</i> , 2012, 145, 124-130.	0.6	3
104	Perinatal exposure to a human relevant mixture of persistent organic pollutants: Effects on mammary gland development, ovarian folliculogenesis and liver in CD-1 mice. <i>PLoS ONE</i> , 2021, 16, e0252954.	1.1	3
105	Skatole Metabolism in the Pigs with Reduced Testicular Oestrogen Synthesis. <i>Reproduction in Domestic Animals</i> , 2014, 49, 302-305.	0.6	2
106	A rapid and sensitive method to determine potassium permanganate in meat. <i>Journal Fur Verbraucherschutz Und Lebensmittelsicherheit</i> , 2019, 14, 167-172.	0.5	2
107	In Vitro Metabolic Transformation of Pharmaceuticals by Hepatic S9 Fractions from Common Carp ( <i>Cyprinus carpio</i> ). <i>Molecules</i> , 2020, 25, 2690.	1.7	2
108	Breastfeeding during infancy and consumption of fish and dairy products are associated with chlorinated persistent organic pollutants in serum from Swedish adolescents. <i>Environmental Advances</i> , 2022, 8, 100210.	2.2	2

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109	Impact of crude protein content in silage and concentrate on protein and fatty acid profiles in bovine milk. Czech Journal of Animal Science, 2013, 58, 304-312.	0.5	1
110	ENCAPSULATION OF VITAMIN AEVIT OIL SOLUTION WITH Î²-CYCLODEXTRIN. Reports, 2021, 335, 5-13.	0.0	1
111	Curcumin and quercetin modify warfarin-induced regulation of porcine CYP1A2 and CYP3A expression and activity <i>in vitro</i> . Xenobiotica, 2022, 52, 435-441.	0.5	1
112	Self-reported consumption frequency of meat and fish products among young adults in Kazakhstan. Nutrition and Health, 0, , 026010602211142.	0.6	1
113	Response to the letter to the editor from Dr. Markus Lacorn. Food Chemistry, 2009, 112, 1008-1009.	4.2	0
114	Stimulatory effect of sesamin on hepatic cytochrome P450 activities in Atlantic salmon ( <i>Salmo salar</i> L.) is not directly associated with expression of genes related to xenobiotic metabolism. Xenobiotica, 2015, 45, 598-604.	0.5	0
115	Preparation of encapsulated Î±-tocopherol acetate and study of its physico-chemical and biological properties. Bulletin of the Karaganda University Chemistry Series, 2021, 103, 27-36.	0.2	0