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(1946 г. — май 2013 г.)

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Профессор.

## Список основных публикаций:

- SHCHELKUNOVA, TA; MOROZOV, IA; RUBTSOV, PM; SAMOKHODSKAYA, LM; ANDRIANOVA, IV; RUDIMOV, EG; SOBENIN, IA; OREKHOV, AN; SMIRNOV, AN.**  
EFFECT OF SEX HORMONES ON LEVELS OF MRNAS CODING FOR PROTEINS INVOLVED IN LIPID METABOLISM IN MACROPHAGES  
BIOCHEMISTRY-MOSCOW 78(12), 1342-1353 (2013)
- POLIKARPOVA, AV; LEVINA, IS; SMIRNOV, AN.**  
3-O-METHOXYIMINO GROUP INHIBITS INTERACTIONS BETWEEN PROGESTINS AND BLOOD TRANSCORTIN  
BIOCHEMISTRY-MOSCOW 78(10), 1134-1136 (2013)
- SHCHELKUNOVA, TA; MOROZOV, IA; RUBTSOV, PM; SAMOKHODSKAYA, LM; SOBENIN, IA; OREKHOV, AN; SMIRNOV, AN.**  
COORDINATION IN GENE EXPRESSION DURING ATHEROGENESIS  
BIOCHEMISTRY-MOSCOW 78(8), 933-945 (2013)
- LEVINA, IS; KULIKOVA, LE; SHULISHOV, EV; TOMILOV, YV; SMIRNOV, AN.**  
SYNTHESIS, STRUCTURE AND BIOLOGICAL ACTIVITY OF SUBSTITUTED [16 ALPHA,17 ALPHA]CYCLOPROPAPREGN-4-ENE-3,20-DIONES  
RUSSIAN CHEMICAL BULLETIN 62(6), 1450-1453 (2013)
- SHCHELKUNOVA, TA; MOROZOV, IA; RUBTSOV, PM; BOBRYSEV, YV; SOBENIN, IA; OREKHOV, AN; ANDRIANOVA, IV; SMIRNOV, AN.**  
LIPID REGULATORS DURING ATHEROGENESIS: EXPRESSION OF LXR, PPAR, AND SREBP MRNA IN THE HUMAN AORTA  
PLOS ONE 8(5), - (2013)
- SHCHELKUNOVA, TA; MOROZOV, IA; RUBTSOV, PM; SAMOKHODSKAYA, LM; ANDRIANOVA, IV; SOBENIN, IA; OREKHOV, AN; SMIRNOV, AN.**  
CHANGES IN LEVELS OF GENE EXPRESSION IN HUMAN AORTAL INTIMA DURING ATHEROGENESIS  
BIOCHEMISTRY-MOSCOW 78(5), 463-470 (2013)

7. **BOBRY SHEV, YV; SHCHELKUNOVA, TA; MOROZOV, IA; RUBTSOV, PM; SOBENIN, IA; OREKHOV, AN; SMIRNOV, AN.**  
CHANGES OF LYSOSOMES IN THE EARLIEST STAGES OF THE DEVELOPMENT OF ATHEROSCLEROSIS  
JOURNAL OF CELLULAR AND MOLECULAR MEDICINE 17(5), 626-635 (2013)
8. **LISANOVA, OV; SHCHELKUNOVA, TA; MOROZOV, IA; RUBTSOV, PM; LEVINA, IS; KULIKOVA, LE; SMIRNOV, AN.**  
APPROACHES TO THE DESIGN OF SELECTIVE LIGANDS FOR MEMBRANE PROGESTERONE RECEPTOR ALPHA  
BIOCHEMISTRY-MOSCOW 78(3), 236-243 (2013)
9. **SHCHELKUNOVA, TA; ALBERT, EA; MOROZOV, IA; RUBTSOV, PM; SAMOKHODSKAYA, LM; SOBENIN, IA; OREKHOV, AN; SMIRNOV, AN.**  
CONTENTS OF MRNAS ENCODING ENDOSOME/LYSOSOME COMPONENTS IN NORMAL HUMAN AORTA AND IN STAGE II OF ATHEROGENESIS: A HIDDEN REGULATION  
BIOCHEMISTRY-MOSCOW 76(10), 1178-1184 (2011)
10. **SMIRNOV, AN; SHCHELKUNOVA, TA; MOROZOV, IA; RUBTSOV, PM; SOBENIN, IA; ADRIANOVA, IV; RUDYMOV, EG; MUKHAMEDOVA, NM; MARTIROSYAN, DM; OREKHOV, AN.**  
SEX HORMONES MODULATE REVERSE CHOLESTEROL TRANSPORT IN HUMAN MACROPHAGES  
ATHEROSCLEROSIS SUPPLEMENTS 12(1), 48-48 (2011)
11. **SMIRNOV, A; SHCHELKUNOVA, TA; MOROZOV, IA; RUBTSOV, PM; SOBENIN, IA; OREKHOV, AN; ANDRIANOVA, IV.**  
ESTIMATION OF THE CONTRIBUTION OF MACROPHAGE MRNAS TO THE OBSERVED CHANGES IN MRNAS LEVELS IN THE VESSEL INTIMA AT ATHEROGENESIS  
ATHEROSCLEROSIS SUPPLEMENTS 12(1), 37-37 (2011)
12. **SMIRNOV, A; SHCHELKUNOVA, TA; MOROZOV, IA; RUBTSOV, PM; SOBENIN, IA; OREKHOV, AN; ANDRIANOVA, IV; RUDYMOV, EG.**  
WHAT CAN TEACH US CORRELATIONS BETWEEN MRNAS CONTENTS IN MACROPHAGES FROM MEN AND WOMEN?  
ATHEROSCLEROSIS SUPPLEMENTS 12(1), 37-37 (2011)
13. **SMIRNOV, AN.**  
LIPID SIGNALING IN THE ATHEROGENESIS CONTEXT  
BIOCHEMISTRY-MOSCOW 75(7), 793-810 (2010)
14. **SMIRNOV, AN.**  
HORMONAL MECHANISMS OF SEX DIFFERENTIATION OF THE LIVER: THE MODERN CONCEPTION AND PROBLEMS  
RUSSIAN JOURNAL OF DEVELOPMENTAL BIOLOGY 40(5), 264-282 (2009)
15. **OREKHOV, A; SOBENIN, I; SMIRNOV, A.**  
SEX HORMONES DECREASE INTRACELLULAR CHOLESTEROL ACCUMULATION CAUSED BY MODIFIED LIPOPROTEIN  
ATHEROSCLEROSIS SUPPLEMENTS 10(2), - (2009)
16. **SMIRNOV, A N.**  
[HORMONAL MECHANISMS OF SEX DIFFERENTIATION OF THE LIVER: THE

17. **LEVINA, IS; POKROVSKAYA, EV; KULIKOVA, LE; KAMERNITZKY, AV; KACHALA, VV; SMIRNOV, AN.**  
3- AND 19-OXIMES OF 16 ALPHA,17 ALPHA-CYCLOHEXANOPROGESTERONE DERIVATIVES: SYNTHESIS AND INTERACTIONS WITH PROGESTERONE RECEPTOR AND OTHER PROTEINS  
STEROIDS 73(8), 815-827 (2008)
18. **SHCHELKUNOVA, TA; MOROZOV, IA; RUBTSOV, PM; SAMOKHODSKAYA, LM; KIREEV, RA; ANDRIANOVA, IV; OREKHOV, AN; SMIRNOV, AN.**  
COMPARATIVE CONTENTS OF MRNAS OF SEX STEROID RECEPTORS AND ENZYMES OF THEIR METABOLISM IN ARTERIAL WALLS OF MEN  
BIOCHEMISTRY-MOSCOW 73(8), 920-928 (2008)
19. **AKSENOV, D; OREKHOVA, V; KIREEV, R; ANDRIANOVA, I; SMIRNOV, A; SOBENIN, I; PANASENKO, O.**  
EFFECTS OF SEX HORMONES ON INTRACELLULAR CHOLESTEROL ACCUMULATION AND LDL AGGREGATION  
ATHEROSCLEROSIS SUPPLEMENTS 9(1), 20-20 (2008)
20. **LEVINA, IS; KULIKOVA, LE; KAMERNITSKY, AV; POKROVSKAYA, EV; SMIRNOV, AN.**  
SYNTHESIS OF 19-SUBSTITUTED STEROIDS OF THE 16 ALPHA,17 ALPHA-CYCLOHEXANOPREGNANE SERIES AND STUDY OF THEIR INTERACTIONS WITH RAT UTERINE CYTOSOL AND BLOOD SERUM PROTEINS  
RUSSIAN CHEMICAL BULLETIN 54(11), 2664-2670 (2005)
21. **SMIRNOV, A N.**  
MEMBRANE LOCALIZATION OF THE NUCLEAR RECEPTOR: A PARADOX WITH IMPORTANT CONSEQUENCES.  
ROSSIISKII FIZIOLOGICHESKII ZHURNAL IMENI I.M. SECHENOVA 91(1), - (2005)
22. **MOROZOV, IA; ASTAPOVA, II; SMIRNOV, AN; RUBTSOV, PM.**  
LOCALIZATION OF MATRIX-ASSOCIATED ELEMENTS IN THE 5'-REGION OF THE RAT ESTROGEN SULFOTRANSFERASE GENE  
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY 30(4), 349-352 (2004)
23. **POKROVSKAYA, EV; LEVINA, IS; KULIKOVA, LE; KAMERNITSKY, AV; SMIRNOV, AN.**  
STRUCTURAL FEATURES OF PREGNA-D'-PENTANES DETERMINING THEIR INTERACTION WITH THREE RAT PROTEINS  
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY 30(3), 268-274 (2004)
24. **POKROVSKAIA, E V; LEVINA, I S; KULIKOVA, L E; KAMERNITSKII, A V; SMIRNOV, A N.**  
[STRUCTURAL FEATURES OF PREGNA-D'-PENTANES DETERMINING THEIR INTERACTION WITH THREE RAT PROTEINS].  
BIOORGANICHESKAIA KHIMIYA 30(3), - (2004)
25. **MOROZOV, I A; ASTAPOVA, I I; SMIRNOV, A N; RUBTSOV, P M.**  
LOCALIZATION OF MATRIX-ASSOCIATED ELEMENTS IN THE 5'-REGION OF THE RAT ESTROGEN SULFOTRANSFERASE GENE.  
BIOORGANICHESKAIA KHIMIYA 30(4), - (2004)

26. **ASTAPOVA, II; SHCHELKUNOVA, TA; MOROZOV, IA; SMIRNOV, AN; RUBTSOV, PM.**  
LOCALIZATION OF A SITE FOR INTERACTION WITH HEPATIC MALE-SPECIFIC PROTEINS IN TWO RAT ESTROGEN SULFOTRANSFERASE GENES  
BIOCHEMISTRY-MOSCOW 68(4), 399-404 (2003)
27. **POKROVSKAYA, EV; LEVINA, IS; KAMERNITSKY, AV; SHEVCHENKO, VP; SMIRNOV, A.**  
DNA SLOWS DISSOCIATION OF PROGESTERONE RECEPTOR-STEROID LIGAND COMPLEXES  
STEROIDS 68(4), 351-359 (2003)
28. **SMIRNOV, AN.**  
NUCLEAR RECEPTORS: NOMENCLATURE, LIGANDS, MECHANISMS OF THEIR EFFECTS ON GENE EXPRESSION  
BIOCHEMISTRY-MOSCOW 67(9), 957-977 (2002)
29. **ASTAPOVA, II; SMIRNOV, AN; RUBTSOV, PM.**  
PCR AMPLIFICATION AND STRUCTURAL ANALYSIS OF TWO PARALOGOUS RAT ESTROGEN SULFOTRANSFERASE GENES  
MOLECULAR BIOLOGY 36(4), 497-504 (2002)
30. **SMIRNOV, AN; POKROVSKAYA, EV; SHEVCHENKO, VP; NAGAEV, IY; MYASOEDOV, NF; LEVINA, IS; KULIKOVA, LE; KAMERNITSKY, AV.**  
SPECIES AND TISSUE DISTRIBUTION OF PROTEINS BINDING 16 ALPHA,17 ALPHA-CYCLOALKANOPROGESTERONE DERIVATIVES  
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY 28(3), 224-230 (2002)
31. **KAMERNITSKY, AV; LEVINA, IS; KULIKOVA, LE; MILOVANOV, AP; KHALANSKII, AC; ALTUKHOVA, VI; SMIRNOV, AN; POKROVSKAYA, EV; SHEVCHENKO, VP.**  
MORPHOLOGICAL CHANGES IN RAT UTERUS TISSUES UNDER THE ACTION OF PROGESTINS AND ANTIPROGESTINS OF THE PREGNA-D<sup>1</sup>-PENTARANE SERIES  
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY 28(3), 234-241 (2002)
32. **LEVINA, IS; KULIKOVA, LE; KAMERNITSKII, AV; SHASHKOV, AS; SMIRNOV, AN; POKROVSKAYA, EV.**  
SYNTHESIS OF 6(E)- AND 6(Z)-(3-ETHOXYCARBONYLPROPYL)OXIMES OF 16 ALPHA,17 ALPHA-CYCLOHEXANOPREGN-4-ENE-3,6,20-TRIONE AND STUDY OF THEIR INTERACTION WITH PROTEINS OF THE RAT UTERINE CYTOSOL AND BLOOD SERUM  
RUSSIAN CHEMICAL BULLETIN 51(4), 703-708 (2002)
33. **SHCHELKUNOVA, TA; RUBTSOV, PM; LEVINA, IS; KAMERNITSKY, AV; SMIRNOV, AN.**  
PREGNA-D<sup>1</sup>-PENTARANE STRUCTURE INFLUENCES PROGESTERONE RECEPTOR AFFINITY FOR DNA  
STEROIDS 67(5), 323-332 (2002)
34. **BOGORAD, RL; SMYSLOVA, VS; SMIRNOV, AN; RUBTSOV, PM; SMIRNOVA, OV.**  
THE RATIO OF PROLACTIN RECEPTOR ISOFORMS IN RAT HEPATOCYTES: THE EFFECT OF OBSTRUCTIVE CHOLESTASIS  
MOLECULAR BIOLOGY 36(1), 71-73 (2002)

35. **ASTAPOVA, I I; SMIRNOV, A N; RUBTSOV, P M.**  
PCR AMPLIFICATION AND STRUCTURAL ANALYSIS OF TWO PARALOGOUS RAT ESTROGEN SULFOTRANSFERASE GENES.  
MOLEKULIARNAIA BIOLOGIIA 36(4), - (2002)
36. **SMIRNOV, A N; POKROVSKAIA, E V; SHEVCHENKO, V P; NAGAEV, I IU; MIASOEDOV, N F; LEVINA, I S; KULIKOVA, L E; KAMERNITSKII, A V.**  
SPECIES AND TISSUE DISTRIBUTION SPECIFICITY OF PROTEINS BINDING 16ALPHA,17ALPHA-CYCLOALKANE DERIVATIVES OF PROGESTERONE.  
BIOORGANICHESKAIA KHIMIIA 28(3), - (2002)
37. **KAMERNITSKII, A V; LEVINA, I S; KULIKOVA, L E; MILOVANOV, A P; KHALANSKII, A S; ALTUKHOVA, V I; SMIRNOV, A N; POKROVSKAIA, E V; SHEVCHENKO, V P.**  
MORPHOLOGICAL CHANGES IN THE RAT UTERINE TISSUES EXPOSED TO PREGNA-D'-PENTARAN DERIVATIVES OF PROGESTINS AND ANTI-PROGESTINS.  
BIOORGANICHESKAIA KHIMIIA 28(3), - (2002)
38. **BOGORAD, R L; SMYSLOVA, V S; SMIRNOV, A N; RUBTSOV, P M; SMIRNOVA, O V.**  
THE RATIO OF PROLACTIN RECEPTOR ISOFORMS IN RAT HEPATOCYTES: THE EFFECT OF OBSTRUCTIVE CHOLESTASIS.  
MOLEKULIARNAIA BIOLOGIIA 36(1), - (2002)
39. **SMIRNOV, AN; POKROVSKAYA, EV; LEVINA, IS; KULIKOVA, LE; KAMERNITZKY, AV; SHEVCHENKO, VP.**  
16 ALPHA,17 ALPHA-CYCLOALKANE DERIVATIVES OF PROGESTERONE INTENSIVELY BIND TO A RAT SERUM PROTEIN  
BIOCHEMISTRY-MOSCOW 66(6), 688-692 (2001)
40. **SMIRNOV, AN; POKROVSKAYA, EV; LEVINA, IS; KULIKOVA, LE; KAMERNITSKII, AV; SHEVCHENKO, VP.**  
BIOACTIVE 5-REDUCED 16 ALPHA,17 ALPHA-CYCLOHEXANOPROGESTERONE DERIVATIVES WEAKLY INTERACT WITH PROTEINS OF THE SOLUBLE UTERINE FRACTION  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 131(3), 245-247 (2001)
41. **SMIRNOV, AN.**  
NUCLEAR MELATONIN RECEPTORS  
BIOCHEMISTRY-MOSCOW 66(1), 19-26 (2001)
42. **MICHEL, W; EBERT, S; SCHNEIDER, O; SHINTANI, Y; BUNKOWSKI, S; SMIRNOV, A; STRINGARIS, AK; GERBER, J; BRUCK, W; NAU, R.**  
FOLLISTATIN (FS) IN HUMAN CEREBROSPINAL FLUID AND REGULATION OF FS EXPRESSION IN A MOUSE MODEL OF MENINGITIS  
EUROPEAN JOURNAL OF ENDOCRINOLOGY 143(6), 809-816 (2000)
43. **MICHEL, U; EBERT, S; SCHNEIDER, O; SHINTANI, Y; BUNKOWSKI, S; SMIRNOV, A; STRINGARIS, A; GERBER, J; BRUCK, W; NAU, R.**  
FOLLISTATIN (FS) IN HUMAN CEREBROSPINAL FLUID AND REGULATION OF FS EXPRESSION IN A MOUSE MODEL OF MENINGITIS.  
EUROPEAN JOURNAL OF ENDOCRINOLOGY 143(6), - (2000)

44. **BOGORAD, RL; KOTOK, T; SMIRNOV, AN; TUROVETSKII, VM; SMIRNOVA, OV.**  
EXPRESSION OF PROLACTIN RECEPTORS IN RAT REPRODUCTIVE TISSUES DURING PERIOVULATORY PROLACTIN IMBALANCE  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 129(6), 608-611 (2000)
45. **SMIRNOV, AN; POKROVSKAYA, EV; KOGTEVA, GS; SHEVCHENKO, VP; LEVINA, IS; KULIKOVA, LE; KAMERNITZKY, AV.**  
THE SIZE AND/OR CONFIGURATION OF THE CYCLOALKANE D'RING IN PENTACYCLIC PROGESTERONE DERIVATIVES ARE CRUCIAL FOR THEIR HIGH-AFFINITY BINDING TO A PROTEIN IN ADDITION TO PROGESTERONE RECEPTOR IN RAT UTERINE CYTOSOL  
STEROIDS 65(3), 163-170 (2000)
46. **KOTOK, T; BOGORAD, R L; SMIRNOV, A N; TUROVETSKII, V M; SMIRNOVA, O V.**  
THE EFFECT OF A PERIOVULATORY PROLACTIN IMBALANCE ON PROLACTIN RECEPTOR EXPRESSION IN RAT OVARY CELL.  
ONTOGENEZ 31(2), - (2000)
47. **SMIRNOV, AN; POKROVSKAYA, EV; SHEVCHENKO, VP; LEVINA, IS; KAMERNITSKII, AV.**  
PENTACYCLIC ANALOGUES OF STEROIDS: INTERACTION OF 16 ALPHA,17 ALPHA-CYCLOPENTANOPROGESTERONE WITH PROTEINS OF THE RAT UTERUS  
BIOORGANICHESKAYA KHIMIYA 25(10), 774-781 (1999)
48. **SHCHELKUNOVA, TA; SMIRNOV, AN.**  
EXPRESSION OF HEPATIC ESTROGEN SULFOTRANSFERASE IN HEPATOCYTES TRANSPLANTED INTO THE SPLEEN OF SYNGENEIC ANIMALS  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 128(7), 697-699 (1999)
49. **SHEVCHENKO, VP; NAGAEV, IY; MYASOEDOV, NF; KAMERNITSKY, AV; LEVINA, IS; KULIKOVA, LE; POKROVSKAYA, EV; SHCHELKUNOVA, TA; SMIRNOV, AN.**  
THE SYNTHESIS OF TRITIUM-LABELED 16 ALPHA,17 ALPHA-CYCLOHEX-3'-ENO-PROGESTERONE AS PROBE FOR THE STUDY OF STEROID-RECEPTOR BINDING  
BIOORGANIC CHEMISTRY 27(3), 207-213 (1999)
50. **ASTAPOVA, II; YAKOVENKO, AR; SHCHELKUNOVA, TA; CHERNOV, BK; SVERDLOVA, PS; SMIRNOV, AN; RUBTSOV, PM.**  
CLONING AND PRELIMINARY CHARACTERIZATION OF THE RAT ESTROGEN SULFOTRANSFERASE GENE 5'-REGION  
MOLECULAR BIOLOGY 33(3), 392-397 (1999)
51. **SMIRNOV, A N.**  
SELECTIVITY LIMITS. STRATEGY OF DEVELOPMENT OF HORMONES WITH THE SELECTIVE EFFICACY.  
ROSSIISKII FIZIOLOGICHESKII ZHURNAL IMENI I.M. SECHENOVA 85(5), - (1999)
52. **ORLOVA, AN; SMIRNOV, AN; SMIRNOVA, OV.**  
ROLE OF PROLACTIN IN THE REGULATION OF SOME LIVER CELL FUNCTIONS AFTER LIGATION OF COMMON BILE DUCT  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 127(5), 519-521 (1999)

53. **ORLOVA, AN; SMIRNOVA, OV; TUROVETSKII, VB; SMIRNOV, AN.**  
NUCLEAR MANIFESTATION OF PROLACTIN RECEPTORS IN RAT  
HEPATOCYTES AND EFFECT OF PROLACTIN  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 127(5), 526-529 (1999)
54. **ASTANOVA, I I; IAKOVENKO, A R; SHCHELKUNOVA, T A; CHERNOV, B K;  
SVERDLOVA, P S; SMIRNOV, A N; RUBTSOV, P M.**  
CLONING AND PRELIMINARY CHARACTERISTICS OF THE 5'-REGION OF THE  
RAT ESTROGEN SULFOTRANSFERASE GENE.  
MOLEKULIARNAIA BIOLOGIIA 33(3), - (1999)
55. **SHEVCHENKO, VP; NAGAEV, IY; POTAPOVA, AV; MYASOEDOV, NF;  
KAMERNITSKY, AV; LEVINA, IS; KULIKOVA, LE; SMIRNOV, AN.**  
SYNTHESIS OF TRITIUM-LABELLED BIOLOGICALLY ACTIVE ANALOGUES OF  
PROGESTERONE BY SELECTIVE HYDROGENATION OF 16 ALPHA,17 ALPHA-  
CYCLOHEX-3 '-EN-PREGNA-1,4-DIEN-3,20-DIONE  
JOURNAL OF LABELLED COMPOUNDS & RADIOPHARMACEUTICALS 41(10),  
919-925 (1998)
56. **SMIRNOV, AN; POKROVSKAYA, EV; SHEVCHENKO, VP; LEVINA, IS;  
KAMERNITZKY, AV.**  
INTERACTIONS OF 16 ALPHA,17 ALPHA-CYCLOHEXANE DERIVATIVES OF  
PROGESTERONE WITH THE PROGESTERONE RECEPTOR FROM RAT UTERUS  
BIOCHEMISTRY-MOSCOW 63(9), 1090-1097 (1998)
57. **BABASYAN, SA; ASTAPOVA, II; SVERDLOVA, PS; PETRASHCHUK, OM;  
SHCHELKUNOVA, TA; SMIRNOVA, OV; SMIRNOV, AN; RUBTSOV, PM.**  
INDUCTION OF THE SYNTHESIS OF FEMALE-SPECIFIC GROWTH HORMONE  
RECEPTOR MRNA VARIANTS IN MALE RAT LIVER  
MOLECULAR BIOLOGY 32(5), 695-696 (1998)
58. **ORLOVA, AN; SMIRNOVA, OV; TUROVETSKII, VB; SMIRNOV, AN.**  
EFFECT OF BROMOCRIPTINE ON THE EXPRESSION OF PROLACTIN RECEPTORS  
IN LIVER CELLS AFTER COMMON BILE DUCT LIGATION  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 126(7), 687-689 (1998)
59. **SMIRNOV, AN; POKROVSKAYA, EV; SHEVCHENKO, VP; LEVINA, IS;  
KAMERNITSKII, AV.**  
INTERACTION BETWEEN 16 ALPHA,17 ALPHA-CYCLOPROPANE  
PROGESTERONE AND PROGESTERONE RECEPTORS IN RAT UTERUS  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 125(5), 471-473 (1998)
60. **BABASIAN, S A; ASTAPOVA, I I; SVERDLOVA, P S; PETRASHCHUK, O M;  
SHCHELKUNOVA, T A; SMIRNOVA, O V; SMIRNOV, A N; RUBTSOV, P M.**  
[INDUCTION OF SYNTHESIS SPECIFIC FOR FEMALES OF VARIANTS GROWTH  
HORMONE RECEPTOR MRNA IN LIVER OF MALE RATS].  
MOLEKULIARNAIA BIOLOGIIA 32(5), - (1998)
61. **SMIRNOVA, O V; PETRASHCHUK, O M; SMIRNOV, A N.**  
INDUCTION OF EXPRESSION OF PROLACTIN RECEPTORS IN  
CHOLANGIOCYTES OF MALE AND FEMALE RATS AFTER LIGATION OF THE  
COMMON BILE DUCT.  
BIULLETEN' EKSPERIMENTAL'NOI BIOLOGII I MEDITSINY 125(1), - (1998)

62. **SMIRNOVA, OV; PETRASHCHUK, OM; SMIRNOV, AN.**  
INDUCTION OF PROLACTIN RECEPTORS IN CHOLANGIOCYTES OF MALE AND FEMALE RATS AFTER LIGATION OF THE COMMON BILE DUCT  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 125(1), 56-60 (1998)
63. **SMIRNOV, A. N.; POKROVSKAYA, E. V.; SHEVCHENKO, V. P.; LEVINA, I. S.; KAMERNITSKII, A. V..**  
REACTIONS BETWEEN SELECTIVE PROGESTERONE AGONIST 16ALPHA, 17ALPHA-CYCLOHEX-3'-ENOPROGESTERONE AND RAT UTERINE PROGESTERONE RECEPTOR  
PROBLEMY ENDOKRINOLOGII 44(1), 37 (1998)
64. **ORLOVA, A N; SMIRNOV, A N; SMIRNOVA, O V.**  
IMMUNOHISTOCHEMICAL ANALYSIS OF LOCALIZATION OF THE SOMATOTROPIC HORMONE RECEPTORS IN THE RAT LIVER CELLS DEPENDING ON SEX AND HORMONAL STATUS.  
BIULLETEN' EKSPERIMENTAL'NOI BIOLOGII I MEDITSINY 124(10), - (1997)
65. **ORLOVA, AN; SMIRNOV, AN; SMIRNOVA, OV.**  
IMMUNOHISTOCHEMICAL LOCALIZATION OF SOMATOTROPIN RECEPTORS IN RAT LIVER CELLS. EFFECT OF SEX AND HORMONAL STATUS  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 124(10), 1001-1004 (1997)
66. **PETRASHCHUK, OM; SMIRNOV, AN; SMIRNOVA, OV.**  
PECULIARITIES OF THE PROLACTIN RECEPTOR EXPRESSION IN LIVER CELLS AFTER PARTIAL HEPATECTOMY  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 124(9), 932-935 (1997)
67. **PETRASHCHUK, O M; SMIRNOV, A N; SMIRNOVA, O V.**  
CHARACTERISTICS OF EXPRESSION OF PROLACTIN RECEPTORS IN LIVER CELLS OF RATS SUBJECTED TO PARTIAL HEPATECTOMY.  
BIULLETEN' EKSPERIMENTAL'NOI BIOLOGII I MEDITSINY 124(9), - (1997)
68. **KAMERNITSKY, AV; LEVINA, IS; KULIKOVA, LE; GALAKHOVA, TN; SHEVCHENKO, VP; NAGAEV, IY; MYASOEDOV, NF; SMIRNOV, AN; POKROVSKAYA, EV; SHCHELKUNOVA, TA.**  
SYNTHESIS OF [H-3]-CYCLOALKANOPROGESTERONES (PREGNA-D'-PENTARANES) AND STUDY OF THEIR INTERACTION WITH A PROGESTERONE RECEPTOR  
RUSSIAN CHEMICAL BULLETIN 46(8), 1468-1471 (1997)
69. **PETRASHCHUK, OM; SMIRNOV, AN; SMIRNOVA, OV.**  
PROLACTIN RECEPTOR IN RAT BILE DUCTS IN ONTOGENY  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 122(12), 1228-1231 (1996)
70. **PETRASHCHUK, O M; SMIRNOV, A N; SMIRNOVA, O V.**  
PROLACTIN RECEPTORS IN BILE DUCT CELLS DURING RAT ONTOGENESIS.  
BIULLETEN' EKSPERIMENTAL'NOI BIOLOGII I MEDITSINY 122(12), - (1996)
71. **MICHEL, U; SCHNEIDER, O; KIRCHHOF, C; MEISEL, S; SMIRNOV, A; WILTFANG, J; RIECKMANN, P.**  
PRODUCTION OF FOLLISTATIN IN PORCINE ENDOTHELIAL CELLS: DIFFERENTIAL REGULATION BY BACTERIAL COMPOUNDS AND THE

72. **SMIRNOV, AN; YAKOVENKO, AR; LEVINA, IS; KAMERNITSKY, AV.**  
KINETICS OF THE INTERACTION OF [H-3]16 ALPHA,17 ALPHA-CYCLOHEXANOPROGESTERONE WITH THE PROGESTERONE RECEPTOR FROM RABBIT UTERUS  
BIOCHEMISTRY-MOSCOW 61(8), 1034-1041 (1996)
73. **KOVTUN, IV; SMIRNOV, AN; TUROVETSKII, VB; SMIRNOVA, OV.**  
IMMUNOHISTOCHEMICAL IDENTIFICATION OF ANDROGEN RECEPTORS IN THE LIVER OF PUBERTAL MALE RATS  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 122(8), 823-826 (1996)
74. **SMIRNOV, A N; IAKOVENKO, A R; LEVINA, I S; KAMERNITSKII, A V.**  
KINETICS OF INTERACTION OF [3H]16ALPHA,17ALPHA-CYCLOHEXANOPROGESTERONE WITH PROGESTERONE RECEPTOR IN THE RABBIT UTERUS.  
BIOKHIMIĀ (MOSCOW, RUSSIA) 61(8), - (1996)
75. **KOVTUN, I V; SMIRNOV, A N; TUROVETSKII, V B; SMIRNOVA, O V.**  
IMMUNOHISTOCHEMICAL IDENTIFICATION OF ANDROGEN RECEPTORS IN THE LIVER OF MATURE MALE RATS.  
BIULLETEN' EKSPERIMENTAL'NOI BIOLOGII I MEDITSINY 122(8), - (1996)
76. **SHCHELKUNOVA, TA; SMIRNOV, AN.**  
EXPRESSION OF AN UNUSUAL ESTROGEN-BINDING PROTEIN IN THE LIVER OF ANDROGENIZED ADULT FEMALE RATS DURING LIVER REGENERATION AFTER CARBON TETRACHLORIDE POISONING  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 122(7), 674-676 (1996)
77. **PETRASHCHUK, OM; SMIRNOVA, OV; SMIRNOV, AN.**  
ROLE OF ESTROGENS IN THE REGULATION OF PROLACTIN RECEPTORS IN LIVER-CELLS OF FEMALE RATS  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 118(9), 962-965 (1994)
78. **SMIRNOVA, OV; KOVTUN, IV; SMIRNOV, AN; SHCHELKUNOVA, TA; FAKTOR, VM; ROZEN, VB.**  
INHERITANCE OF ANDROGEN PROGRAM OF MALE-SPECIFIC EXPRESSION OF UNUSUAL ESTROGEN-BINDING PROTEIN BY DAUGHTER HEPATOCYTES AT RAT-LIVER REGENERATION  
JOURNAL OF STEROID BIOCHEMISTRY AND MOLECULAR BIOLOGY 44(2), 155-162 (1993)
79. **SHCHELKUNOVA, T A; SMIRNOV, A N; FAKTOR, V M; BRODSKII, V IA; ROZEN, V B.**  
[AN ANDROGENIC PROGRAM OF EXPRESSION OF THE PARTICULAR ESTROGEN-BINDING PROTEIN IS PRESENT IN MALE RATS IN ALL HEPATOCYTES].  
ONTOGENEZ 24(2), - (1993)
80. **SMIRNOV, AN; ZHAVORONKOV, SN.**  
INTERACTIONS BETWEEN SEX STEROIDS AND SOLUBLE-PROTEINS FROM PORCINE AND BOVINE LIVER - A PILOT-STUDY  
BIOCHEMISTRY-MOSCOW 57(4), 404-410 (1992)

81. **SHCHELKUNOVA, TA; FACTOR, VM; SMIRNOV, AN; ROZEN, VB.**  
CELLULAR-LOCALIZATION OF UNUSUAL ESTROGEN-BINDING PROTEIN IN  
THE RAT-LIVER AT DIFFERENT HORMONAL STATES  
TSITOLOGIYA 33(12), 59-& (1991)
82. **ISAEVA, GM; SMIRNOV, AN; ROZEN, VB; BEISEMBAEVA, RU.**  
INVESTIGATION OF THE INTERACTION OF 17-BETA-ESTRADIOL WITH  
HAPTOGLOBIN AND ITS COMPLEX WITH HEMOGLOBIN  
BIOCHEMISTRY-MOSCOW 55(9), 1285-1287 (1990)
83. **ISAEVA, G M; SMIRNOV, A N; ROZEN, V B; BEISEMBAEVA.**  
17 BETA-ESTRADIOL INTERACTION WITH HAPTOGLOBIN AND ITS COMPLEX  
WITH HEMOGLOBIN.  
BIOKIMIJA (MOSCOW, RUSSIA) 55(9), - (1990)
84. **SMIRNOV, AN.**  
ESTROPHILIC 3-ALPHA,3-BETA,17-BETA,20-ALPHA-HYDROXYSTEROID  
DEHYDROGENASE FROM RABBIT LIVER .1. ISOLATION AND PURIFICATION  
JOURNAL OF STEROID BIOCHEMISTRY AND MOLECULAR BIOLOGY 36(6), 609-  
616 (1990)
85. **SMIRNOV, AN.**  
ESTROPHILIC 3-ALPHA,3-BETA,17-BETA,20-ALPHA-HYDROXYSTEROID  
DEHYDROGENASE FROM RABBIT LIVER .2. MECHANISMS OF ENZYME  
STEROID INTERACTION  
JOURNAL OF STEROID BIOCHEMISTRY AND MOLECULAR BIOLOGY 36(6), 617-  
629 (1990)
86. **SMIRNOV, AN.**  
PH-DEPENDENCE OF THE HORMONE-BINDING AND ENZYMATIC-ACTIVITIES  
OF RABBIT LIVER ESTROPHILIC HYDROXYSTEROID DEHYDROGENASE  
BIOCHEMISTRY-MOSCOW 55(6), 802-808 (1990)
87. **SMIRNOV, AN.**  
EFFECT OF COENZYMES ON BINDING OF STEROID SUBSTRATES WITH RAT-  
LIVER ESTROPHILIC HYDROXYSTEROID DEHYDROGENASE  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 109(3), 316-319 (1990)
88. **KAZANOVA, E G; SMIRNOV, A N; ROZEN, V B.**  
THE CHARACTERISTICS OF THE ESTROGEN-BINDING PROTEIN FROM THE  
PANCREAS OF FEMALE AND MALE RAT].  
PROBLEMY ENDOKRINOLOGII 36(3), - (1990)
89. **KAZANOVA, EG; SHCHELKUNOVA, TA; SMIRNOV, AN; ROZEN, VB.**  
TISSUE DISTRIBUTION OF UNUSUAL RAT ESTROGEN-BINDING PROTEIN  
STUDIED BY IMMUNOBLOTTING  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 108(8), 1168-1170  
(1989)
90. **SMIRNOV, AN.**  
HORMONE-BINDING PROPERTIES OF A RAT-LIVER ESTROPHILIC  
HYDROXYSTEROID DEHYDROGENASE  
BIOCHEMISTRY-MOSCOW 54(7), 904-914 (1989)

91. **SMIRNOV, AN; KAZANOVA, EG.**  
OXIDOREDUCTASE ACTIVITY OF AN UNUSUAL ESTROGEN-BINDING PROTEIN OF RAT-LIVER  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 107(3), 373-375 (1989)
92. **SMIRNOV, AN; SHCHELKUNOVA, TA.**  
ISOLATION OF ESTROPHILIC FRACTIONS OF RABBIT LIVER  
HYDROXYSTEROID DEHYDROGENASE  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 107(2), 189-191 (1989)
93. **SMIRNOV, A N; SHCHELKUNOVA, T A.**  
ISOLATION OF ESTROPHILIC FRACTIONS OF HYDROXYSTEROID DEHYDROGENASE FROM RABBIT LIVER.  
BIULLETEN' EKSPERIMENTAL'NOI BIOLOGII I MEDITSINY 107(2), - (1989)
94. **SMIRNOV, A N.**  
DYNAMIC REGULATION OF STEROID HORMONES BY STEROID-MODULATING AGENTS THROUGH THEIR COMPLEXING WITH INTRACELLULAR PROTEINS.  
PROBLEMY ENDOKRINOLOGII 34(3), - (1988)
95. **SHCHELKUNOVA, T A; KASSIROVA, E G; SMIRNOV, A N.**  
IDENTIFICATION OF NON-RECEPTOR ESTROGEN-BINDING PROTEIN IN THE OVARIAN CYTOSOL OF SEXUALLY IMMATURE RATS.  
PROBLEMY ENDOKRINOLOGII 33(6), - (1987)
96. **GAZARIAN, K G; GENING, L V; NEZANANOV, N S; BEGETOVA, T V; ALEKSEEVA, M V.**  
THE GENE FOR BOVINE GROWTH HORMONE IS FLANKED BY HOMOLOGOUS SEQUENCES.  
MOLEKULIARNAIA BIOLOGIIA 21(4), - (1987)
97. **SHCHELKUNOVA, TA; SMIRNOV, AN; ROZEN, VB.**  
PHYSICO-CHEMICAL PROPERTIES AND AMINO-ACID-COMPOSITION OF HIGHLY PURIFIED PREPARATION OF DISTINCTIVE ESTROGEN-BINDING PROTEIN FROM RAT-LIVER  
BIOCHEMISTRY-MOSCOW 51(6), 822-830 (1986)
98. **SMIRNOV, AN; SHCHELKUNOVA, TA; SMIRNOVA, OV; ROZEN, VB.**  
EFFECT OF ANTIBODIES AGAINST DISTINCTIVE RAT-LIVER ESTROGEN-BINDING PROTEIN ON HORMONE-BINDING ACTIVITY OF THIS PROTEIN AND STEROID-HORMONE RECEPTORS  
BIOCHEMISTRY-MOSCOW 51(6), 802-810 (1986)
99. **SMIRNOV, AN; SHCHELKUNOVA, TA; ROZEN, VB.**  
AN UNUSUAL ESTROGEN-BINDING LIVER PROTEIN - ADDITIONAL DATA ON THE STRUCTURAL DETERMINANTS OF ANDROGENIC LIGANDS  
BIOCHEMISTRY-MOSCOW 51(5), 641-643 (1986)
100. **SMIRNOV, A N.**  
AN UNUSUAL ESTROGEN-BINDING LIVER PROTEIN AND THE DYNAMICS OF SEX STEROIDS: ESTROGEN STIMULATION OF TESTOSTERONE METABOLISM IN THE MALE RAT IN VIVO.  
PROBLEMY ENDOKRINOLOGII 32(2), - (1986)

101. **SMIRNOV, AN; SHCHELKUNOVA, TA; ROZEN, VB.**  
AN UNUSUAL ESTROGEN-BINDING PROTEIN OF THE RAT-LIVER - EFFECTS ON NUCLEAR ACCUMULATION OF ESTRADIOL-RECEPTOR COMPLEXES INVITRO  
BIOCHEMISTRY-MOSCOW 50(9), 1189-1192 (1985)
102. **SMIRNOV, A N; SHCHELKUNOVA, T A; ROZEN, V B.**  
A SPECIAL ESTROGEN-BINDING PROTEIN IN THE RAT LIVER: THE EFFECT OF NUCLEAR ACCUMULATION OF ESTRADIOL-RECEPTOR COMPLEXES IN VITRO.  
BIOKHIMIJA (MOSCOW, RUSSIA) 50(9), - (1985)Ъ
103. **SHCHELKUNOVA, TA; SMIRNOV, AN; ROZEN, VB.**  
SPECIFIC ESTROGEN-BINDING PROTEIN OF RAT-LIVER AND SEX STEROID-METABOLISM  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 100(8), 1061-1063 (1985)
104. **SHCHEKUNOVA, T A; SMIRNOV, A N; ROZEN, V B.**  
UNUSUAL ESTROGEN-BINDING LIVER PROTEIN IN RATS AND THE METABOLISM OF SEX STEROIDS.  
BIULLETEN' EKSPERIMENTAL'NOI BIOLOGII I MEDITSINY 100(8), - (1985)
105. **SMIRNOVA, OV; VISHNYAKOVA, TG; SMIRNOV, AN; ROZEN, VB.**  
THE UNUSUAL ESTROGEN-BINDING PROTEIN (UEBP) OF RAT-LIVER - THE ROLE OF SEX STEROIDS AND HYPOPHYSIS IN ITS REGULATION  
JOURNAL OF STEROID BIOCHEMISTRY AND MOLECULAR BIOLOGY 23(4), 461-468 (1985)
106. **MIROSHNICHENKO, M L; SMIRNOV, A N; SHCHELKUNOVA, T A; ROZEN, V B.**  
SPECIFIC ESTROGEN-BINDING PROTEIN IN THE RAT LIVER: EFFECT ON THE ACCUMULATION OF ESTRADIOL-RECEPTOR COMPLEXES IN NUCLEI IN VITRO.  
PROBLEMY ENDOKRINOLOGII 31(3), - (1985)
107. **SMIRNOVA, O V; VISHNIAKOVA, T G; SMIRNOV, A N; ROZEN, V B.**  
ROLE OF ESTROGENS IN THE INDUCTION AND REGULATION OF A SPECIFIC ESTROGEN-BINDING PROTEIN IN THE RAT LIVER.  
PROBLEMY ENDOKRINOLOGII 31(3), - (1985)
108. **SMIRNOV, A N; SHCHELKUNOVA, T A; EGOROVA, V V; RESHETOVA, I G; CHERNOBUROVA, E I.**  
PURIFICATION OF A SPECIAL ESTROGEN-BINDING PROTEIN FROM THE LIVER OF RATS BY AFFINITY CHROMATOGRAPHY ON ESTRADIOL SEPHAROSE.  
BIULLETEN' EKSPERIMENTAL'NOI BIOLOGII I MEDITSINY 98(9), - (1984)
109. **SMIRNOV, AN; SHCHELKUNOVA, TA; EGOROVA, VV; RESHETOVA, IG; CHERNOBUROVA, EI.**  
PURIFICATION OF SPECIFIC RAT-LIVER ESTROGEN-BINDING PROTEIN BY AFFINITY-CHROMATOGRAPHY ON ESTRADIOL-SEPHAROSE  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 98(9), 1297-1299 (1984)
110. **GERASIMOVA, TI; SMIRNOV, AN; ROZEN, VB; BUNYATYAN, AF; BOLSHAKOVA, TD; GOGICHAEV, ZK; VOLPYAN, LL.**  
ANDROGEN, PROGESTIN AND ESTROGEN-RECEPTORS IN THE HUMAN-

111. **MIROSHNICHENKO, M L; SMIRNOVA, O V; SMIRNOV, A N; ROZEN, V B.**  
THE UNUSUAL ESTROGEN-BINDING PROTEIN (UEBP) OF MALE-RAT LIVER -  
STRUCTURAL DETERMINANTS OF LIGANDS  
JOURNAL OF STEROID BIOCHEMISTRY AND MOLECULAR BIOLOGY 18(4), 403-  
409 (1983)
112. **GODOVICH, P L; MATARADZE, G D; SMIRNOV, A N; ROZEN, V B.**  
PHYLOGENESIS OF STEROID-TRANSPORT PROTEINS IN THE BLOOD:  
DETECTION AND CHARACTERISTICS OF THE SEX-STEROID-BINDING PROTEIN  
IN THE BLOOD PLASMA OF THE CARP.  
PROBLEMY ENDOKRINOLOGII 29(6), - (1983)
113. **SMIRNOVA, O V; MIROSHNICHENKO, M L; SHCHELKUNOVA, T A;  
VISHNIAKOVA, T G; SMIRNOV, A N.**  
ANDROGEN INDUCTION OF SPECIFIC ESTROGEN-BINDING PROTEIN OF RAT  
LIVER: RELATIONSHIP BETWEEN THE STAGE OF ONTOGENESIS AND VARIOUS  
ENDOCRINE FACTORS.  
PROBLEMY ENDOKRINOLOGII 29(5), - (1983)
114. **MIROSHNICHENKO, M L; SMIRNOVA, O V; SMIRNOV, A N; ROZEN, V B.**  
HORMONAL SPECIFICITY OF THE AFFINITY OF SPECIFIC ESTROGEN-BINDING  
PROTEIN IN THE RAT LIVER.  
BIULLETEN' EKSPERIMENTAL'NOI BIOLOGII I MEDITSINY 94(11), - (1982)
115. **MIROSHNICHENKO, M L; SMIRNOVA, O V; SMIRNOV, A N; ROZEN, V B.**  
HORMONAL SPECIFICITY OF THE AFFINITY OF AN UNUSUAL RAT-LIVER  
ESTROGEN-BINDING PROTEIN  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 94(11), 1577-1580  
(1982)
116. **SMIRNOVA, O V; SMIRNOV, A N.**  
IDENTIFICATION OF ESTROGEN-BINDING PROTEINS IN THE HUMAN LIVER.  
PROBLEMY ENDOKRINOLOGII 28(6), - (1982)
117. **GERASIMOVA, T S I; SMIRNOV, A N; BUNIATIAN, A F.**  
DIHYDROTESTOSTERONE-BINDING CHARACTERISTICS IN HUMAN  
PROSTATIC ADENOMA.  
PROBLEMY ENDOKRINOLOGII 28(5), - (1982)
118. **SMIRNOVA, O V; SHCHELKUNOVA, T A; SMIRNOV, A N.**  
PRODUCTION OF ANTIBODIES TO A SPECIFIC ESTROGEN-BINDING PROTEIN  
OF RAT LIVER AND STUDY OF THE REACTION BETWEEN ISOLATED  
IMMUNOPRECIPITATES AND ESTRADIOL.  
BIULLETEN' EKSPERIMENTAL'NOI BIOLOGII I MEDITSINY 91(10), - (1981)
119. **MATARADZE, G D; KONDRAT'EV, I A I U; GONTAR', E V; SMIRNOV, A N;  
ROZEN, V B.**  
CYTOPLASM TO NUCLEUS TRANSLOCATION PATTERNS OF DIFFERENT  
FORMS OF HEPATIC ESTROGEN RECEPTORS.  
BIULLETEN' EKSPERIMENTAL'NOI BIOLOGII I MEDITSINY 91(5), - (1981)

120. **SMIRNOVA O V; SHCHELKUNOVA T A; SMIRNOV A N.**  
ISOLATION OF ANTIBODIES TO UNUSUAL ESTROGEN BINDING PROTEIN FROM THE RAT LIVER AND STUDY OF THE INTERACTION OF THE IMMUNO PRECIPITATES OBTAINED WITH ESTRADIOL  
BYULLETEN' EKSPERIMENTAL'NOI BIOLOGII I MEDITSINY 92(10), 462 (1981)
121. **SMIRNOVA, OV; SHCHELKUNOVA, TA; SMIRNOV, AN.**  
ANTIBODY-PRODUCTION AGAINST UNUSUAL ESTROGEN-BINDING PROTEIN OF RAT-LIVER AND INTERACTION BETWEEN ISOLATED IMMUNOPRECIPITATES AND ESTRADIOL  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 92(10), 1399-1402 (1981)
122. **MATARADZE, GD; KONDRATEV, YY; GONTAR, EV; SMIRNOV, AN; ROZEN, VB.**  
TRANSLOCATION OF DIFFERENT TYPES OF LIVER ESTROGEN-RECEPTORS FROM CYTOPLASM TO NUCLEUS  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 91(5), 628-631 (1981)
123. **GERASIMOVA, TS I; SMIRNOV, A N; BUNIATRIAN, A F.**  
IDENTIFICATION AND CHARACTERISTICS OF STEROID HORMONE RECEPTOR BINDING PROPERTIES IN THE NUCLEAR FRACTION OF HUMAN PROSTATIC ADENOMA.  
PROBLEMY ENDOKRINOLOGII 27(6), - (1981)
124. **KONDRAT'EV, IA IU; SMIRNOV, A N; SMIRNOVA, O V.**  
MULTICOMPONENT SYSTEM OF ESTROGEN-BINDING PROTEINS OF THE LIVER. ISOLATION AND COMPARATIVE PROPERTIES OF 4-5S AND OTHER RAT LIVER HIGH MOLECULAR WEIGHT PROTEINS, WHICH SPECIFICALLY BIND ESTRADIOL.  
BIOKHIMIĀ (MOSCOW, RUSSIA) 45(11), - (1980)
125. **SMIRNOVA, O V; KIZIM, E A; SMIRNOV, A N; NIKOLOV, I T; ROZEN, V B.**  
EFFECT OF SEVERAL ENDOCRINE FACTORS ON THE CONCENTRATION OF SPECIFIC ESTROGEN-BINDING PROTEIN IN RAT LIVER.  
BIULLETEN' EKSPERIMENTAL'NOI BIOLOGII I MEDITSINY 90(10), - (1980)
126. **SMIRNOVA, OV; KIZIM, EA; SMIRNOV, AN; NIKOLOV, IT; ROZEN, VB.**  
EFFECT OF SOME ENDOCRINE FACTORS ON THE CONTENT OF A SPECIFIC ESTROGEN-BINDING PROTEIN IN RAT-LIVER  
BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 90(10), 1439-1442 (1980)
127. **KONDRATEV, YY; SMIRNOV, AN; SMIRNOVA, OV.**  
THE MULTICOMPONENT SYSTEM OF ESTROGEN-BINDING PROTEINS OF THE LIVER - ISOLATION AND COMPARATIVE CHARACTERIZATION OF THE 4-5S AND HIGHER-MOLECULAR-WEIGHT PROTEINS OF THE RAT-LIVER THAT SPECIFICALLY BIND ESTRADIOL  
BIOCHEMISTRY-MOSCOW 45(11), 1570-1579 (1980)
128. **MATARADZE G D; RUKAIYA M-KH; SMIRNOV A N; ROZEN V B.**  
A MULTI COMPONENT SYSTEM OF ESTROGEN BINDING PROTEINS FROM THE LIVER CHARACTERIZATION OF BINDING PROPERTIES OF HIGH MOLECULAR WEIGHT PROTEIN FROM RAT LIVER SIMILAR TO UTERINE ESTRADIOL

RECEPTORS

BIOKHIMIYA 44(8), 1484 (1979)

129. **SMIRNOV A N; NIKOLOV I T; ROZEN V B.**  
DETERMINATION OF THE CONTENT OF A SPECIAL ESTROGEN BINDING  
PROTEIN IN THE CYTOSOL OF RAT LIVER  
PROBLEMY ENDOKRIA 25(5), 66 (1979)
  
130. **SMIRNOVA O V; SMIRNOV A N; SHOSHINA S V; ROZEN V B.**  
SOME PROPERTIES OF SEX STEROID BINDING PROTEIN FROM CLAWED FROG  
BLOOD SERUM AND DETECTION OF ESTRADIOL BINDING COMPONENT  
DIFFERING FROM SEX STEROID BINDING PROTEIN IN FROG LIVER CYTOSOL  
BIOKHIMIYA 43(8), 1444 (1978)
  
131. **SMIRNOVA, OV; SMIRNOV, AN; SHOSHINA, SV; ROZEN, VB.**  
SOME PROPERTIES OF SEX HORMONES BINDING PROTEIN FROM BLOOD-  
SERUM OF THE FROG XENOPUS-LAEVIS AND THE DETECTION OF ESTRADIOL-  
BINDING COMPONENT DIFFERING FROM SEX HORMONE-BINDING PROTEIN IN  
FROG LIVER CYTOSOL  
BIOCHEMISTRY-MOSCOW 43(8), 1133 (1978)
  
132. **ORLOV V M; SMIRNOV A N; VARSHAVSKII YA M.**  
IONIZATION POTENTIALS OF THE NITROGENOUS BASES OF NUCLEIC-ACIDS  
AND THEIR ANALOGS  
MOLEKULYARNAYA BIOLOGIYA (MOSCOW) 11(1), 222 (1977)
  
133. **SMIRNOV A N; SMIRNOVA O V; ROZEN V B.**  
ISOLATION AND PRELIMINARY CHARACTERIZATION OF A PARTICULAR  
ESTROGEN BINDING PROTEIN FROM LIVER OF MALE RATS  
BIOKHIMIYA 42(3), 560 (1977)
  
134. **SMIRNOVA O V; SMIRNOV A N; ROZEN V B.**  
MULTI COMPONENT SYSTEM OF ESTRADIOL BINDING PROTEINS IN RAT  
LIVER CYTOSOL DEPENDENCE ON SEX STEROIDS  
BYULLETEN' EKSPERIMENTAL'NOI BIOLOGII I MEDITSINY 83(5), 548 (1977)
  
135. **SMIRNOVA O V; SMIRNOV A N; ROZEN V B.**  
DETERMINATION OF STOKES RADII OF THE CYTOPLASMIC RECEPTOR  
MOLECULES FOR ESTRADIOL IN SOME RAT ORGANS  
PROBLEMY ENDOKRIA 22(5), 65 (1976)
  
136. **SMIRNOVA, OV; SMIRNOV, AN; FISHER, UM; ROZEN, VB.**  
STUDY OF SOME STRUCTURAL FORMS OF CYTOPLASMIC-RECEPTORS TO  
UTERUS, KIDNEY, AND LIVER ESTRADIOL  
DOKLADY AKADEMII NAUK SSSR 226(2), 474 (1976)
  
137. **SMIRNOV A N; SMIRNOVA O V; SENATOROVA T A; ROZEN V B.**  
THE EFFECT OF ESTROGENS ON THE CONCENTRATION OF ESTRADIOL  
RECEPTORS IN THE RAT UTERUS KIDNEYS AND LIVER  
PROBLEMY ENDOKRIA 21(2), 73 (1975)
  
138. **SMIRNOV, AN; SMIRNOVA, OV; ROZEN, VB.**  
RECEPTORS FOR ESTRADIOL IN CYTOSOL OF RAT KIDNEYS, LIVER, AND  
UTERUS  
DOKLADY AKADEMII NAUK SSSR 220(1), 244 (1975)

139. **SMIRNOVA O V; SMIRNOV A N; KHODAKOVA T D; ROZEN V B.**  
ESTRADIOL RECEPTORS IN THE ORGANS OF THE SEXUAL SPHERE AND OF  
SOME OTHER ORGANS IN MALE RATS  
PROBLEMY ENDOKRIA 21(3), 71 (1975)
140. **SMIRNOVA O V; SMIRNOV A N; ROZEN V B.**  
BINDING OF ESTRADIOL IN CYTOPLASM AND NUCLEI OF VARIOUS TISSUES  
OF JUVENILE AND MATURE RATS  
BIOKHIMIYA 39(3), 648 (1974)