

# Curriculum Vitae

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## Education

- 4/1998-4/1999 Post Doctorate with Prof. Gary H. Posner  
Department of Chemistry, *Johns Hopkins University, Baltimore (MD), USA.*
- 6/1986 Ph. D. in Organic Chemistry, Kazan State University, Russia.  
*Thesis:* Synthesis and intramolecular reactions of unsaturated  $\gamma$ -ketophosphites.  
Supervisor: Prof. Yakov A. Levin. Advisor: Dr. Felix S. Mukhametov
- 5/1980 M. Sc. in Chemistry (Diploma with honor), Kazan State University, Russia.  
*Thesis:* Kinetics and thermochemistry of the  $\text{AlCl}_3$ -catalyzed Diels-Alder reactions of anthracenes with N-aryl maleimides. Supervisor: Prof. Vladimir D. Kiselev.

## Professional Experience:

- From 2/2016 Senior Researcher. Department of Chemistry (group of Dr. Arie Gruzman), Bar Ilan University, Ramat Gan Israel
- 5/1999-1/2016 Senior Researcher (from 2005) and Researcher (from 1999). Department of Organic Chemistry, Weizmann Institute of Science, Rehovot, Israel. Research in the groups of Professors Mario D. Bach, David Milstein and Michael Bendikov.
- 4/1995-4/1998 Research associate. Department of Organic Chemistry (group of Prof. Mario D. Bach), Weizmann Institute of Science, Rehovot, Israel.
- 9/1980-5/1994 Senior researcher and group leader (from 9/1989), researcher (from 9/1986) and junior researcher (from 9/1980). Arbuzov Institute of Organic & Physical Chemistry, Russian Academy of Sciences, Kazan, Russia.

## Professional Skills:

- Design and synthesis of organic, heteroatomic and organometallic compounds using various heterolytic, homolytic and electrocyclic reactions. Total synthesis of natural compounds and their simplified analogues of biological interest.
- Elaboration of synthetic methodologies.
- Structural elucidation of organic, heteroatomic and organometallic species using 1D- and 2D-NMR, IR, UV/Vis-spectroscopy and mass-spectrometry.
- Isolation and purification of organic, heteroatomic and organometallic compounds using classical approaches, flash-chromatography and HPLC.
- Writing and reviewing of research articles, reviews and patents on synthetic organic and medicinal chemistry.
- Training and advising of Ph. D. and M. Sc. students in organic synthesis.

## Publications:

### Research articles:

1. Korshin, E. E.; Leitus, G. M.; Bendikov, M. Convenient access to readily soluble symmetrical dialkyl-substituted  $\alpha$ -oligofurans. *Org. Biomol. Chem.* **2014**, 12, 6661-6671.

2. Korshin E. E.; Pozdeev, O. K. [1-Hydroxy-1-(2-hydroxyphenyl)ethyl]phosphonates and -phosphinates: Convenient synthesis through intramolecular Abramov reaction and protective activity against influenza A. *Tetrahedron* **2013**, *69*, 11109-11115.
3. Korshin, E. E.; Zakharova, L. G.; Levin, Y. A.; Shulaeva, M. P.; Pozdeev, O. K. Anti- influenza A active and low toxic N-phenyl-substituted  $\beta$ -amidoamidines structurally related to natural antibiotic Amidinomycin. *Bioorg. Med. Chem. Lett.* **2013**, *23*, 2357-2361.
4. Korshin, E. E.; Sabirova, L. I.; Levin, Y. A. An expedient synthesis of 5-substituted imidazo[1,2-c]quinazolines. *Synthesis* **2012**, *44*, 3512-3522.
5. Korshin, E. E.; Leitus, G.; Shimon, L. J. W.; Konstantinovski, L.; Milstein, D. Silanol- based pincer Pt(II) complexes: synthesis, structure, and unusual reactivity. *Inorg. Chem.* **2008**, *47*, 7177-7189.
6. O'Neill, P. M.; Verissimo, E.; Ward, S. A.; Davies, J.; Korshin, E. E.; Araujo, N.; Pugh, M. D.; Cristiano, M. L. S.; Stocks, P. A.; Bachi, M. D. Diels-Alder/thiol-olefin co-oxygenation approach to antimalarials incorporating the 2,3-dioxabicyclo [3.3.1]nonane pharmacophore. *Bioorg. Med. Chem. Lett.* **2006**, *16*, 2991-2995.
7. Szpilman, A. M.; Korshin, E. E.; Rozenberg, H.; Bachi, M. D. Total syntheses of Yingzhaosu A and of its C(14)-epimer including the first evaluation of their antimalarial and cytotoxic activities. *J. Org. Chem.* **2005**, *70*, 3618-3632.
8. O'Neill, P. M.; Stocks, P. A.; Pugh, M. D.; Araujo, N. C.; Korshin, E. E.; Bickley, J. F.; Ward, S. A.; Bray, P. G.; Pasini, E.; Davies, J.; Verissimo, E.; Bachi, M. D. Design and synthesis of endoperoxide antimalarial prodrug models. *Angew. Chem., Int. Ed.* **2004**, *43*, 4193-4197.
9. Korshin, E. E.; Bilokin, Y. V.; Zheng, H.; Bachi, M. D. Efficient stereoselective alkenylation through a homolytic domino reaction involving a 1,5 sulfur-to-carbon translocation. *J. Am. Chem. Soc.* **2004**, *126*, 2708-2709.
10. Bachi, M. D.; Korshin, E. E.; Hoos, R.; Szpilman, A. M.; Ploypradith, P.; Xie, S.; Shapiro, T. A.; Posner, G. H. A Short synthesis and biological evaluation of potent and nontoxic antimalarial bridged bicyclic  $\beta$ -sulfonyl-endoperoxides. *J. Med. Chem.* **2003**, *46*, 2516-2533.
11. Korshin, E. E.; Hoos, R.; Szpilman, A. M.; Konstantinovski, L.; Posner, G. H.; Bachi, M. D. An efficient synthesis of bridged-bicyclic peroxides structurally related to antimalarial Yingzhaosu A based on radical co-oxygenation of thiols and monoterpenes. *Tetrahedron* **2002**, *58*, 2449-2469.
12. Szpilman, A. M.; Korshin, E. E.; Hoos, R.; Posner, G. H.; Bachi, M. D. Iron(II)- induced degradation of antimalarial  $\beta$ -sulfonyl endoperoxides. Evidence for the generation of potentially cytotoxic carbocations. *J. Org. Chem.* **2001**, *66*, 6531-6540.
13. Bachi, M. D.; Korshin, E. E.; Hoos, R.; Szpilman, A. M. Synthesis and reactions of antimalarial bicyclic peroxides. *J. Heterocycl. Chem.* **2000**, *37*, 639-646.
14. Bachi, M. D.; Korshin, E. E.; Ploypradith, P.; Cumming, J. N.; Xie, S.; Shapiro, T. A.; Posner, G. H. Synthesis and in vitro antimalarial activity of sulfone endoperoxides. *Bioorg. Med. Chem. Lett.* **1998**, *8*, 903-908.
15. Bachi, M. D.; Korshin, E. E.. Thiol-oxygen cooxidation of monoterpenes. Synthesis of endoperoxides structurally related to antimalarial Yingzhaosu A. *Synlett* **1998**, 122-124.
16. Shagidullin, R. R.; Ashrafullina, L. Kh.; Plyamovaty, A. Kh.; Zakharova, L. G.; Korshin, E. E.; Monakhova, N. I.; Levin, Ya. A. Infrared spectra and molecular structure of amidoamidines. *Russ. J. Gen. Chem.* **1997**, *67*, 1276-1279.
17. Korshin, E. E.; Eliseenkova, R. M.; Zakharova, L.; Sabirova, L.; Levin, Ya. A. Monocyclic and fused 4-imino(4-oxo)-1,3,2-diazaphospholanes and – phosphorinanes. Synthesis and some properties. *Phosphorus, Sulfur and Silicon* **1996**, *111*, 197.
18. Korshin, E. E.; Sabirova, L. I.; Levin, Ya. A. Unusual annulation of 2- methylimidazoline by aryl isocyanates. *Russ. Chem. Bull.* **1994**, *43*, 1430.
19. Korshin, E. E.; Sabirova, L. I.; Ziablikova, T. A.; Ismaev, I. E.; Levin, Ya. A. Aminoamidines. 8. Synthesis of bicyclic nitrogen- and phosphorus-nitrogen-containing compounds from 2-[(arylamino)methyl]imidazolines. *Russ. Chem. Bull.* **1994**, *43*, 439-443.
20. Korshin, E. E.; Sabirova, L. I.; Akhmadullin, A. G.; Levin, Ya. A. Aminoamidines. 7. 2--[(Arylamino)methyl]imidazolines and their acylated derivatives. *Russ. Chem. Bull.* **1994**, *43*, 431-438.

21. Korshin, E. E.; Eliseenkova, R. M.; Zyablikova, T. A.; Zakharova, L. G.; Akhmadullin, A. G.; Nusinovich, V. D.; Levin, Ya. A. Aminoamidines. 6. 4-Oxo- and 4-imino-1,3,2-diazaphospholanes and 4-imino-1,3,2-diazaphosphorinanes. *Russ. Chem. Bull.* **1993**, *42*, 1071-1077.
22. Korshin, E. E.; Soboleva, G. I.; Levin, Ya. A.; Podval'nyi, E. A.; Efremov, Yu. Ya. Aminoamidines. IV. 1,3-Diaryl-4-arylaminoimidazolium chlorides from  $N^1,N^2$ - diaryl-N-aryl glycaminamidines. *Russ. J. Org. Chem.* **1993**, *29*, 482-490.
23. Korshin, E. E.; Zakharova, L. G.; Levin, Ya. A.; Ashrafullina, L. Kh.; Podval'nyi, E. A.; Efremov, Yu. Ya. Aminoamidines. Part 5. Synthesis and acylation of  $N,N^1,N^2$ -triaryl-substituted  $\beta$ -aminoamidines. *Russ. Chem. Bull.* **1992**, *41*, 2082-2090.
24. Korshin, E. E.; Soboleva, G. I.; Levin, Ya. A.; Zakharova, L. G.; Litvinov, I. A.; Naumov, V. A.; Podval'nyi, E. A.; Efremov, Yu. Ya. Aminoamidines. III. Acylation of  $N,N^1,N^2$ -triaryl glycaminamidines. *Russ. J. Org. Chem.* **1992**, *28*, 973-985.
25. Korshin, E. E.; Soboleva, G. I.; Levin, Ya. A.; Podval'nyi, E. A.; Efremov, Yu. Ya. Reactions of aryl-substituted glycaminamidines with oxalic acid derivatives. *Russ. Chem. Bull.* **1991**, *40*, 212-214.
26. Mukhametov, F. S.; Eliseenkova, R. M.; Korshin, E. E. Heterocyclization of  $\alpha,\alpha$ -dialkyl- $\beta$ -ketoalkoxy derivatives of tricoordinated phosphorus acids. *Russ. J. Gen. Chem.* **1991**, *61*, 2356-2362.
27. Mukhametov, F. S.; Eliseenkova, R. M.; Korshin, E. E. Silylation of hydroxy ketones with silicon chloro derivatives. *Russ. Chem. Bull.* **1990**, *39*, 1963-1965.
28. Korshin, E. E.; Levin, Ya. A. Reactions of tertiary amines with maleic acid and monoalkyl maleates. *Russ. J. Gen. Chem.* **1990**, *60*, 1043-1047.
29. Korshin, E. E.; Eliseenkova, R. M.; Mukhametov, F. S. Vinylphosphite-vinylphosphonate rearrangement in acyclic and cyclic systems. *Phosphorus, Sulfur and Silicon* **1990**, *51/52*, 265.
30. Korshin, E. E.; Mingazova, G. I.; Levin, Ya. A. 4-Anilino-1,3-diphenylimidazolium chlorides. *Chem. Heterocycl. Compd.* **1989**, *25*, 1412.
31. Mukhametov, F. S.; Korshin, E. E.; Nekhoroshkov, V. M.; Efremov, Yu. Ya. Intramolecular reactions between phosphorus(III)-nitrogen and carbonyl groups in the case of phosphorus(III) O-phosphorylated derivatives of 2-acetylphenol. *Russ. J. Gen. Chem.* **1989**, *59*, 1309-1320.
32. Mukhametov, F. S.; Eliseenkova, R. M.; Korshin, E. E. Oxaazaphosphorins and azaphospholenes based on phosphorylated N-monosubstituted enaminoketones. *Russ. J. Gen. Chem.* **1989**, *59*, 277-284.
33. Mukhametov, F. S.; Eliseenkova, R. M.; Korshin, E. E. Phosphorylation of nitrogen analogs of  $\beta$ -dicarbonyl compounds with monochlorides of acids of trivalent phosphorus. *Russ. J. Gen. Chem.* **1986**, *56*, 1812-1815.
34. Mukhametov, F. S.; Korshin, E. E.; Korshunov, R. L.; Efremov, Yu. Ya.; Zyablikova, T. A. Heterocyclization of aromatic *ortho*-carbonyl-containing phosphites. *Russ. J. Gen. Chem.* **1986**, *56*, 1574-1580.
35. Korshin, E. E.; Mukhametov, F. S. Tricyclic phosphoranes with exocyclic heteroatom substituents. *Russ. J. Gen. Chem.* **1986**, *56*, 846-847.
36. Mukhametov, F. S.; Korshin, E. E. Phosphorylation of *ortho*-hydroxyacetophenone with phosphorus acid chlorides in the presence of base. *Russ. J. Gen. Chem.* **1985**, *55*, 1788-1794.
37. Korshin, E. E.; Mukhametov, F. S. Formation of tricyclic phosphorane in the reaction of diethylamido(2-acetylphenyl)phenylphosphonite with acetic acid. *Russ. Chem. Bull.* **1985**, *34*, 451.
38. Mukhametov, F. S.; Korshin, E. E. Rearrangement of dioxaphosphorine rings into oxaphospholene rings. *Russ. J. Gen. Chem.* **1984**, *54*, 2505.
39. Korshin, E. E.; Mukhametov, F. S. Intramolecular rearrangement of vinylphosphites to vinylphosphonates. *Russ. Chem. Bull.* **1984**, *33*, 1752.
40. Mukhametov, F. S.; Korshin, E. E.; Rizpolozhenskii, N. I. Phosphorus-containing derivatives of the diene-diol form of acetylacetone. *Phosphorus and Sulfur* **1983**, *18*, 418.
41. Mukhametov, F. S.; Korshin, E. E.; Shagidullin, R. R.; Rizpolozhenskii, N. I. Reaction of acetylacetone with phosphorus acid chlorides in the presence of base. *Russ. J. Gen. Chem.* **1983**, *53*, 2436-2443.

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42. Mukhametov, F. S.; Stepashkina, L. V.; Korshin, E. E.; Shagidullin, R. R.; Rizpolozhenskii, N. I. Phosphorus-containing derivatives of the diene-diol form of acetylacetone. *Russ. J. Gen. Chem.* **1983**, *53*, 1137-1143.
43. Kiselev, V. D.; Mavrin, G. V.; Korshin, E. E.; Konovalov, A. I. Calorimetric study of the effect of solvent on the enthalpy of formation of molecular complexes of iodine with N,N-dimethylacetamide, pyridine, and benzene. *Russ. J. Gen. Chem.* **1980**, *50*, 919-922.
44. Kiselev, V. D.; Konovalov, A. I.; Mavrin, G. V.; Korshin, E. E.; Dimukhametov, M. N. Study of catalysis of the Diels-Alder reaction by aluminum chloride. Deposited paper, 18 pp. (in Russian), **1980**, (SPSTL 601khp-D80), Avail. SPSTL (USSR); *Chem. Abstr.* **1981**, *95*, 168065.

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#### Book chapters and reviews:

1. Korshin, E. E.; Bachi, M. D. Synthesis of cyclic peroxides. In *The Chemistry of Peroxides*, Vol. 2 (Pt. 1); Ed.: Rappoport, Z: John Wiley & Sons, Chichester (UK), 189-305 (2006). – Chapter in the book.
  2. Korshin, E. E.; Posner, G. H. A new approach to steroid ring construction based on a novel radical cascade sequence. *Chemtracts – Organic Chemistry* **1999**, *12*, 45-51. – Micro-review.
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#### Patents:

1. Bachi, M. D.; Posner, G. H.; Korshin, E. E. (Yeda WIS/ John Hopkins University). 2,3-Dioxabicyclo[3.3.1]nonane derivatives and antimalarial pharmaceutical compositions comprising them. PCT Int. Appl. WO 99/12900 (1999); *Chem. Abstr.* **1999**, *130*, 237573.
  2. Korshin, E. E.; Zakharova, L. G.; Levin, Ya. A.; Pozdeev, O. K.; Gilmanova, G. Kh.; Filatova, A. E.; Shulaeva, M. P. N-Acyl-N',N"-diphenyldiammonium chloride derivatives as virucides. Pat. Russia N 2024500 (1994); *Chem. Abstr.* **1994**, *123*, 306546.
  3. Levin, Ya. A.; Shermergorn, I. M.; Zakharova, L. G.; Korshin, E. E.; Vafina, N. M. 3-(N-Acyl-N-phenylamino)-2-methylpropylidene-N',N"-diphenyldiammonium chloride corrosion inhibitors for metals in hydrogen sulfide-containing media. Pat. Russia N 2024499 (1994); *Chem. Abstr.* **1994**, *123*, 320215.
  4. Mukhametov, F. S.; Korshin, E. E.; Kireeva, A. S.; Gilmanova, G. Kh. Antiviral diethylammonium salts of 1-hydroxy-1-(2'-hydroxyphenyl)ethylphosphonic and - phosphinic acids, and method of their preparation. Pat. USSR N 1341961 (1987). — "Classified patent".
  5. Mukhametov, F. S.; Korshin, E. E.; Iraidoval, I. S.; Kudrina, M. A.; Anisimova, N. N. 3,4,8,9-Dibenzo-5,7-dimethyl-2,6,10,11-tetraoxa-1-phospha(V)tricyclo[5.3.1.0]undecanes as herbicides. Pat. USSR N 1262937 (1986). — "Classified patent".
  6. Mukhametov, F. S.; Korshin, E. E.; Molod'kh J. V.; Anisimova, N. N.; Kudrina, M. A. Fungistatic and fungicidal 4-methylene-6-methyl-1,3,2-dioxaphosphorines. Pat. USSR N 1157828 (1985). – "Classified patent".
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#### Selected conference presentations:

1. Korshin, E. E.; Jin, X.-H.; Sheynin, Y.; Bendikov, M. Synthesis of long regioregular dialkyl-substituted  $\alpha$ -oligofurans. *Abstr. of 16 International Conference on Heterocycles in Bioorganic Chemistry (Bioheterocycles 2015)*, p. 54(OC-08). Metz (France), June 2015. - Oral presentation.
2. Korshin, E. E.; Konstantinovski, L.; Leitus, G. M.; Shimon, L. J. W.; Milstein, D. Toward silanone intramolecularly bound to late transition metal: Synthesis and unusual reactivity of hydrosilane- and silanole-based pincer Pt(II) complexes. *Abstr. of 26 International Chugaev Conference on Coordination Chemistry*, p. 86. Kazan (Russia), October 2014. - Oral presentation.
3. Korshin, E. E.; Zakharova, L. G.; Soboleva, G. I.; Levin, Y. A.; Shulaeva, M. P.; Pozdeev, O. K. 1,3-Diphenyl-4-anilinoimidazolium chlorides, N-phenyl-substituted  $\alpha$ - and  $\beta$ -amidoamidinium salts: Synthesis and anti-influenza A activity. *Abstr. of EFMC International Symposium on Medicinal Chemistry 2014*, p. 325 (T-034). Lisbon (Portugal), September 2014. - Poster presentation.
4. Korshin E. E.; Sabirova L. A.; Levin Ya. A. A convenient synthesis of imidazo[1,2- c]quinazolines. *Abstr. of 15 International Conference "Heterocycles in Bio-organic Chemistry"*, p. 94 (PO-037). Riga (Latvia), May 2013. - Poster presentation.
5. Korshin, E. E.; Zakharova, L. G.; Levin, Y. A.; Pozdeev, O. K. Synthesis and anti- influenza virus activity of N-arylated

$\beta$ -amidoamidines structurally related to natural antibiotic Amidinomycin. *Abstr. of 4-th EuCheMS Chemistry Congress*, OP-362. Prague (Czech Republic), August 2012. - Poster presentation.

6. Korshin, E. E.; Konstantinovski, L.; Bilokin, Y.; Bachi, M. D. Stereoselective cascade- type homolytic intramolecular C-alkenylation *versus* reductive bridged heterocyclization in 4-hydroxyproline derivatives. *Abstr. of the Butlerov International Congress on Organic Chemistry*, p. 82 (O-101). Kazan (Russia), September 2011. - Oral presentation.
7. Korshin, E. E.; Sabirova, L. I.; Levin, Ya. A. Straightforward synthesis of some amidine-type fused  $\Delta^2$ -imidazolines. *Abstr. of XXIV-th European Colloquium on Heterocyclic Chemistry*, PO-111. Vienna (Austria), August 2010. - Poster presentation.
8. Korshin, E. E.; Sabirova, L. I.; Levin, Ya. A. Synthesis of iminophosphoranes bearing single endocyclic P=N moiety. *Abstr. of XV-th International Conference on the Chemistry of Phosphorus Compounds*, p. 44 (O-38). St. Petersburg (Russia), May 2008. - Oral presentation.
9. Korshin, E. E.; Posner, G. H. Selective non-destructive transformations of C(4)- stereocenter in 3-oxobicyclo[2.2.2]-oct-5-ene carboxylates. *Abstr. of XXII-nd European Colloquium on Heterocyclic Chemistry*, p. 68 (SO-6). Bari (Italy), September 2006. - Oral presentation.
10. Korshin, E. E.; Konstantinovski, L.; Milstein, D. Bis-(phosphino)-substituted hydrosilanes: synthesis, spectra, and formation of some late transition metal complexes. *Abstr. of XIV-th International Conference on the Chemistry of Phosphorus Compounds*, OP-17. Kazan (Russia), June 2005. - Oral presentation.
11. Korshin, E. E.; Bilokin, Y. V.; Zheng, H.; Bachi, M. D. Radical cyclization and stereoselective translocation of unsaturated carbon appendages in 4-hydroxyprolinol derivatives. *Abstr. of 13-th European Symposium on Organic Chemistry*, p. 58 (SO-19). Cavtat-Dubrovnic (Croatia), September 2003. - Oral presentation.
12. Korshin, E. E.; Szpilman, A. M.; Bachi, M. D. Thiol, triplet oxygen and monoterpenes free-radical cascade: a key step in the synthesis of natural Yingzhaosu A and related potent antimalarial endoperoxides. *Abstr. of 7-th International Conference on the Chemistry of Carbenes and Related Intermediates*, O-19. Kazan (Russia), June 2003. - Oral presentation.
13. Korshin, E. E.; Szpilman, A. M.; Bachi, M. D. Synthesis of bicyclic endoperoxides: Yingzhaosu A and it's C-14 epimer. *Abstr. of 224-th National Meeting of the American Chemical Society*, part. 2, 642-ORGN. Boston (MA, USA), August 2002. - Oral presentation.
14. Korshin, E. E.; Bilokin, Y. V.; Zheng, H.; Bachi, M. D. Sulfur-mediated stereoselective homolytic transposition of unsaturated carbon appendages in pyrrolidine derivatives. *Abstr. of 20-th International Symposium on the Organic Chemistry of Sulfur*, OC-19. Flagstaff (AZ, USA), July 2002. - Oral presentation.
15. Korshin, E. E.; Eliseenkova, R. M.; Zakharova, L. G.; Sabirova, L. I.; Levin, Ya. A. Monocyclic and fused 4-imino(4-oxo)-1,3,2-diazaphospholanes and – phosphorinanes. Synthesis and some properties. *Abstr. of 13-th International Conference on Phosphorus Chemistry*, p. 193. Jerusalem (Israel), July 1995. - Poster presentation.
16. Korshin, E. E.; Soboleva, G. I.; Zakharova, L. G.; Levin, Ya. A. Nitrogen heterocycles from triarylsubstituted aminoamidines. *Abstr. of 5-th Soviet Conference on Chemistry of Nitrogen Heterocyclic Compounds*, part. 2, p. 222. Chernogolovka (Russia), October 1991. - Poster presentation.
17. Korshin, E.; Zakharova, L.; Soboleva, G.; Sabirova, L. I. Acylation of aminoacid's amidines and imidazolines. *Abstr. of 8-th International Conference of Young Scientists on Organic and Bioorganic Chemistry*, p. 71. Riga (Latvia), January 1991. - Oral presentation.
18. Korshin, E. E.; Eliseenkova, R. M.; Mukhametov, F. S. Vinylphosphite-vinylphosphonate rearrangement in acyclic and cyclic systems. *Abstr. of posters of 11-th International Conference on Phosphorus Chemistry*, part 1, p. 104. Tallinn (Estonia), July 1989. - Poster presentation.
19. Mukhametov, F. S.; Korshin, E. E.; Rizpolozhenskii, N. I. Phosphorus containing derivatives of the diene-diol form of acetylacetone. *Abstr. of posters of 9-th International Conference on Phosphorus Chemistry*, Abstr. 28. Nice (France), 1983. - Poster presentation.