

## Списък на публикациите на доц. д-р Емилия Найденова

### I.Списък на публикациите представени при участие в конкурс за „доцент” по Органична химия

#### 1. Публикации в международни специализирани научни списания с импакт фактор

1. L. S. Changov, **E. D. Naydenova**, G. I. Ivanova, R. T. Gergova, E. E. Keuleyan and B. V Aleksiev. “Synthesis and  $\beta$ -Lactamase Inhibitory Activity of New  $6\beta$ -Cysteinesulfonamidopenicillanic Acids”. *Bioorganic & Medicinal Chemistry*, **7**, 2899 – 2904, **1999** (IF=2,185)
2. J. Popova, N. Stoyanov, **E. Naydenova**, I. Yanachkov, B. Aleksiev. “Synthesis of new cyano derivatives on the basis of disubstituted indenones”, *Indian Journal of Chemistry*, Vol.39B, 225-228, **2000**. (IF=0,492)
3. **E. Naydenova**, L. Vezenkov, N. Pencheva. “Design, Synthesis and Biological activity of analogues of Tick Anticoagulant Peptides (1-9)”, *Collect. Czech. Chem, Symp. Series*, vol.4 (Ed. J. Slaninova), 32-36, **2001**. (IF=0,8)
4. **E. Naydenova**, N. Pencheva, J. Popova, M. Lazarova, B. Aleksiev, “Aminoderivatives of Cycloalkanespirohydantoin: Synthesis and Biological Activity”. *Il Farmaco*, **57**, 189-194, **2002**. (IF=0,8)
5. D. Kushev, G. Gorneva, V. Enchev, **E. Naydenova**, J. Popova, S. Taxiroy, L. Maneva, K. Grancharov, N. Spassovska. “Synthesis, Cytotoxicity, Antibacterial and Antitumor Activity of Platinum(II) Complexes of 3-aminocyclohexanespiro-5-hydantoin”, *Journal of Inorganic Biochemistry*, **89**, 203-211, **2002** (IF=2,343)
6. D. Kushev, **E. Naydenova**, J. Popova, L. Maneva, K. Grancharov, N. Spassovska. “Synthesis and Cytotoxicity of Platinum(II) Complexes of 3-Aminocyclopentanespiro-5-hydantoin and 3-Aminocycloheptanespiro-5-hydantoin”, *Zeitschrift für Naturforschung*, **58c**, 103-108, **2003**. (IF=0,8)
7. **E. Naydenova**, A. Vassilev, J. Popova, K. Troev. “Phosphonylmethylaminocyclopentane-1-carboxylic Acid”. *Heteroatom Chemistry*, **14**, 3, 229-230, **2003**. (IF=0,825)
8. **E. Naydenova**, L. Vezenkov, B. Grigorova, T. Pajpanova. “New Analogues of Tick Anticoagulant Peptide (1-9): Synthesis and Biological Activity”, *Collect. Czech. Chem, Symp.Series*, vol.6 (Ed.J.Slaninova), 52-55, **2003**.(IF=1,041)

9. N. Pencheva, L. Vezenkov, T. Pajpanova, **E. Naydenova**, P. Milanov. "Effects of enkephalin analogues containing modified cystein in position 2 in hamster vas deferens", *Collect. Czech. Chem., Symp. Series*, vol.6 (Ed.J.Slaninova), 77-80, **2003**.(IF=1,041)

## 2. Публикации в български специализирани научни списания

10. **E. P. Naydenova**, B. V. Aleksiev. "Aspartame Analogs Containig Cysteic Acid", *Oxidation Communication*, **16**, 2, 109-116, **1993**
11. M. Krysteva, **E. Naydenova**, A. Andreeva, Nguen Dihn Huyen. "Modification of chitosan and possibilities of its application", *Biotechnology & Biotechnological Equipment*, **8**, 3, 66-70,**1994**
12. J. Popova, **E. Naydenova**, B. Aleksiev. "Mass-spectral Characterization of Benzyl- Substituted Spirohydantoin". *Compt. rend. Acad. Bulg. Sci.* **50**, (11-12), 55-58, **1997**
13. J. Popova, **E. Naydenova**, N. Stoyanov, G. Ivanova , I. Mancheva. "Gas-Mass Spectroscopic Investigation of HCN Addition products of some substituted 2,3-Diphenylindenones". *Compt. rend. Acad. Bulg. Sci.* **52**, (11-12), 39-42, **1999**
14. **E. D. Naydenova**, J. Sp. Popova, G. I. Ivanova, M. Geurgieva. "Synthesis of 3-aminocycloalcanespirohydantoin modified with amino acids and peptides", *Bulg. Chem. Communications*, **33** (1), 16-22, **2001**.
15. N. St. Pencheva, L. T. Vezenkov, **E. D. Naydenova**, P. B. Milanov, T. I Pajpanova, S. A. Malamov, L. St. Bojkova. "Cys<sup>2</sup>-containing Enkephalin Analogues", *Bulg. Chem. Communication* , **33**, (1), 47-58, **2001**.
16. **E. Naydenova**. "Methode enzymatique pour l'obtention d'esters  $\beta$ -benzylique d'acide aspartique N-protege", *Journal of the University of Chemical Technology and Metallurgy*, XXXVII, 5, 129-134, **2002**.
17. **E. Naydenova**, V. Zhivkova, L. Vezenkov, Y. Dobrinova. "Short Analogues of Nociceptin/OFQ: Synthesis and Biological Activity", *Compt. rend. Acad. Bulg. Sci.*, **57** ,1, 39-42, **2004**.

## 3. Публикации от конференции, отпечатани в пълен текст в сборници с редактор

18. **E. Pavlova-Naydenova**, I. D. Dobrev, B.V. Aleksiev. “Regioselective peptide bond synthesis by the alkaline protease from *Bacillus subtilis*, strain *DY*. In: *Peptides 1992*, C.H. Schneider and A.N.Eberle (Eds.) 405-406, **1993**.
19. **E. D. Naydenova**, J. S. Popova and B.V. Aleksiev. “A Method for Production of Oligopeptides Containing Cyclic Amino Acids”. In: *Peptides 1996*, Robert Ramage and Roger Epton (Eds.), 675-676, **1998**
20. **Emilia Naydenova**, Ljubomir Vezenkov, Nevena Pencheva. “Factor Xa inhibitors, analogues of Tick Anticoagulant Peptides”. In: *Peptides 2000*, (Eds: Jean Martinez and Jean-Alain Fehrentz), 699-700, **2001**.
21. Л. Везенков, Д. Даналев, **Е. Найденова**, Н. Пенчева. “Аналози на антистазин, гилантенс и антикоагулантен пептид. Дизайн, синтези и биологична активност”. *Научни трудове-Русенски университет "Ангел Кънчев"*, том **38**, серия 10, 49-55, **2001**

#### **4. Авторски свидетелства**

22. **Емилия Павлова**, Борис Алексиев  
“Метод за получаване на  $\beta$ - бензилови естери на N- защитена L-аспаргинова киселина”, Авторско свидетелство № 39872, 20.03, (1985)
23. **Емилия Павлова**, Стоян Минчев, Хиню Недев, Борис Алексиев  
“Метод за получаване на N- бензилоксикарбонил- $\beta$ -O-бензил-L- $\alpha$ -аспартил-L- фенилаланин метилов естер”, Авторско свидетелство № 40224, 25.06, (1985)

### **II. Списък на публикациите след придобиване на научно звание доцент, представени за участие в конкурс за „професор” по Органична химия**

#### **1. Публикации в международни специализирани научни списания с импакт фактор (общ IF над 40)**

1. N. Pencheva, P. Milanov, L. Vezenkov, T. Rajpanova, **E. Naydenova**, “Opioid profiles of Cys<sup>2</sup>-containing enkephalin analogues” *Eur. J.Pharm*, 498, 249-256, **2004**  
(IF=2,352)
2. Boris Shivachev, Rosica Petrova and **Emilia Naydenova**. Dimorphism in 3'-aminocyclohexanespiro-5'-hydantoin, *Acta Crystallographica Section C* 61, 524-526, **2005**  
(IF=0,828)

3. **Emilia Naydenova**, M.Topashka-Ancheva, Petar Todorov, Ts. Yordanova, Kolio Troev, Novel  $\alpha$ -Aminophosphonic acids. Design, Characterization and Biological activity, *Bioorganic & Medicinal Chemistry*, 14, 2190-2196, **2006**  
(IF=2.624)
4. **Emilia D. Naydenova\***, Vanya I. Zhivkova, Rositza N. Zamfirova, Lubomir T. Vezenkov, Yordanka G. Dobrinova and Polina I. Mateeva. Synthesis and biological activity of nociceptin/orphanin FQ(1–13)NH<sub>2</sub> analogues modified in 9 and/or 13 position, *Bioorganic & Medicinal Chemistry Letters* 16 , 4071–4074, **2006**.  
(IF=2.538)
5. Boris Shivachev, Rosica Petrova and **Emilia Naydenova**. 3'-Amino cyclohexanespiro-5'-hydantoin–phenylboronic acid (1/1). *Acta Crystallographica* E62, o3887–o3889, **2006**  
(IF=0,508)
6. Petar Todorov, **Emilia Naydenova**, Rosica Petrova, Boris Shivachev and Kolio Troev. [(4,4-Dimethyl-2-oxo-1,3-oxazolidin-3-yl)methyl]phosphonic acid *Acta Crystallographica Section C, C62*, o661–o662, **2006**.  
(IF=0,719)
7. **E. Naydenova**, K. Troev, M. Topashka-Ancheva, G. Hägele, I. Ivanov, A. Kril Synthesis, Cytotoxicity and Clastogenicity of Novel  $\alpha$ - Aminophosphonic Acids. *Amino Acids* 33 (4), 695-702, **2007**  
(IF=4,132)
8. **Emilia D. Naydenova** , Petar T. Todorov , Margarita N. Topashka-Ancheva , Georgi Ts. Momekov , Tsvetelina Z. Yordanova , Spiro M. Konstantinov <sup>c</sup>and Kolio D. Troev . Novel N-(phosphonomethyl) glycine derivatives. Design, characterization and biological activity. *European Journal of Medicinal Chemistry* 43 (6), pp. 1199-1205, **2008**  
(IF = 2.882)
9. Petar Todorov, **Emilia Naydenova**, Julita Popova and Kolio Troev. Synthesis and Characterization of Novel (9H-Fluoren-9-ylamino) carbonylaminoethylphosphonic acid, *Heteroatom Chemistry*, 19(7), 719-722, **2008**  
(IF=1,155)
10. Petar T Todorov, Rosica N Petrova, Emilia D Naydenova, Boris Lubomirov Shivachev, Structure, conformation and hydrogen bonding of two amino-cycloalkanespiro-5-hydantoin, *Central European Journal of Chemistry*, 7(1), 14-19, **2009**  
(IF=1,065)
11. Petar T. Todorov , Emilia D. Naydenova\* , Kolio D. Troev .Synthesis of novel aminophosphonic acids with hydantoin structure. *Heteroatom Chemistry*, 20(2), 87 – 90, **2009**  
(IF=0,877)

12. D. Kushev , V. Enchev , **E. Naydenova**, R. Detcheva, N. Spassovska and K. Grancharov. Synthesis, structure and cytotoxicity of Platinum(IV) complexes of 3-aminocyclohexanespiro-5-hydantoin and 3-aminocycloheptanespiro-5-hydantoin, *Croatica Chemica Acta*, **82** (3) 607–612, **2009**  
(IF=0,805)
13. E. Tzvetanova, A. Pavlova, A. Alexandrova, G. Nenkova, L. Petrov, M. Kirkova, R. Girchev and **E. Naydenova**. Are Nociceptin(1-13)NH<sub>2</sub> and its structural analogue [Orn<sup>9</sup>] Nociceptin(1-13)NH<sub>2</sub> able to affect brain antioxidant status in control and kainic acid-treated rats? *Cell Biochemistry & Function*, **27**(4), 243-50, **2009**  
(IF=1,515)
14. **Naydenova ED**, Todorov PT, Troev KD. Recent synthesis of aminophosphonic acids as potential biological importance. *Amino Acids*, 38(1):23-30, **2010**.  
(IF=4,106)
15. L. Kasakov, M. Nashar, **E. Naydenova**, L. Vezekov , M. Vlaskovska. In vitro studies of the activity of newly synthesized nociceptin / orphanin FQ receptor ligand analogues. *Protein & Peptide Letters*, 17(5):616-20, **2010**  
(IF=1,849)
16. Todorov P, **Naydenova E**, Nikolova RP, Shivachev BL. Ammonium hydrogen (RS)-[(5-methyl-2-oxo-1,3-oxazolidin-3-yl)methyl]phosphonate. *Acta Crystallographica Section E: Structure Reports Online* 66 (1), pp. 06, **2010**  
(IF=0,367)
17. **E.D. Naydenova**, P.T. Todorov and K.D. Troev. Synthesis and Characterization of Novel Cycloalkanespiro-5-hydantoin phosphonic acids. *Phosphorus, Sulfur, and Silicon and the Related Elements*, 185(7), 1315-1320, **2010**  
(IF= 0,621)
18. Todorov, P.T., **Naydenova, E.D.** Synthesis and characterization of novel dipeptide mimetics with hydantoin moiety. *Comptes Rendus Chimie*, 13 (11), 1424-1428, **2010**  
(IF= 1,60)
19. **Naydenova ED**, Todorov PT, Mateeva PI, Zamfirova RN, Pavlov ND, Todorov SB. Synthesis and biological activity of novel small peptides with aminophosphonates moiety as NOP receptor ligands. *Amino Acids* 39 (5), 1537-1543, **2010**  
(IF=4,106)
20. Petar T. Todorov, Ogniana Aneva, **Emilia D. Naydenova**. Synthesis of Phosphorus-Containing Dipeptide Mimetics via Kabachnik-Fields Reaction. *Heteroatom Chemistry*, **2011**, DOI 10.1002/hc  
(IF=1,044 )

21. Nikola Pavlov, Pierre Gilles, Claude Didierjean, Emmanuel Wenger, **Emilia Naydenova**, Jean Martinez, and Monique Calmès. Asymmetric Synthesis of beta2-Tryptophan Analogues via Friedel-Crafts Alkylation of Indoles with a Chiral Nitroacrylate. *Journal of Organic Chemistry* **76**, 6116-6124, 2011. (IF=4,219)

## 2. Публикации в български специализирани научни списания

22. Petar T. Todorov, Emilia D. Naydenova, Margarita N. Topashka-Ancheva, Tsvetelina Yordanova and Kolio D. Troev. *Synthesis, genotoxic and antiproliferative effects of new aminophosphonic acids*. - *Bulgarian Chemical Communication*, Volume 38, Number 1, pp. 20-23, 2006
23. L. Vezenkov, V. Zhivkova, **E. Naydenova**. Design and synthesis of new analogues of the nociceptin/orphanin FQ receptor ligands Ac-Arg-Tyr-Tyr-Arg-Trp-Lys-NH<sub>2</sub> and Ac-Arg-Tyr-Tyr-Arg-Ile-Lys-NH<sub>2</sub>. *Bulgarian Chemical Communication*, Volume 38, Number 1, pp. 64-66, 2006
24. G. Momekov, P. Todorov, **E. Naydenova**, A. Kostovski and K. Troev, Cytotoxic activity of new  $\alpha$ -aminophosphonic acids against human malignant cell lines. *Pharmacia* 54:9–11, 2007
25. P. Markova, R. Girchev, **E. Naydenova**, L. Vezenkov, Heart rate variability after application of nociceptin analog N/OAQ(1-13)NH<sub>2</sub> in spontaneously hypertensive rats, *Trakia Journal of Sciences*, Vol. 5, No. 3-4, pp 1-6, 2007
26. R.A.Girchev, P.P.Markova, **E.D.Naydenova**, L.T.Vezenkov. Fast oscillations of arterial blood pressure during nociceptin analogues application in *Wistar* rats. *Bulgarian Chemical Communication* 41(2), 127-132, 2009
27. R. Girchev<sup>1</sup>, P. Markova<sup>1</sup>, **E. Naydenova**, L. Vezenkov. The influence of nociceptin analogues on the modulation of blood pressure oscillation in spontaneously hypertensive rats. *Trakia Journal of Sciences*, Vol. 8, Suppl. 2, pp 107-113, 2010
28. Margarita N. Topashka-Ancheva, Petar T. Todorov, Tsvetelina Z. Gerasimova, **Emilia D. Naydenova**. Genotoxic and antiproliferative effects of recent synthesized hydantoin-phosphonic derivatives. *Journal of the University of Chemical Technology and Metallurgy*, 46(2), 191-196, 2011.
29. Elena Dzhambazova, Adriana Bocheva, Petar Todorov, Nikola Pavlov, **Emilia Naydenova**. Nitric oxideergic system involvement in analgesic effects of nociceptin receptor ligands with aminophosphonates moiety. *Compt. rend. Acad. Bulg. Sci.*, 2011 (IF=0, 219)

30. P. Mateeva , R. Zamfirova , T. Paypanova, E. Naydenova, L. Vezenkov Changes in the biological activity of N/OFQ(1-13)NH<sub>2</sub> after substitution of Lys<sup>9</sup> by canavanine, Dab and Dap *Compt. rend. Acad. Bulg. Sci.*, **2011** (IF=0, 219)

### 3. Публикации от международни конференции, отпечатани в пълен текст в сборници с редактор

31. V. I. Zhivkova, **E.D. Naydenova**, L.T. Vezenkov, R.N. Zamfirova, S.B. Todorov, Analogues of nociceptin/orphanin FQ. Synthesis and biological activity, *Peptides 2004*, Pproceedings of 3rd International Peptide Symposium/28th European Peptide Symposium, 972-973, **2005**
32. P. Stathopoulos, F. Rodis, **E. Naydenova**, D. Tsoukatos, M. Sakarellos-Daitsiotis, C. Sakarellos, A. Tselepis , V. Tsikaris, : Mapping the fibrinogen binding sites of the GPIIb/IIIa receptor using synthetic peptides derived from the GPIIIa subunit, *Peptides 2004*, Pproceedings 3rd International Peptide Symposium/28th European Peptide Symposium, 770-771, **2005**
33. P. Stathopoulos, F. Rodis, **E. Naydenova**, D. Tsoukatos, M. Sakarellos-Daitsiotis, C. Sakarellos, A. Tselepis and V. Tsikaris, Mapping the binding sites of the GPIIIa subunit of platelet receptor GPIIb/IIIa, *4<sup>th</sup> Hellenic Forum on Bioactive Peptides*, (Eds Paul Cordopatis, Evy M.-Zoupa, George Pairas), 361-364 ,**2005**
34. Petar T. Todorov<sup>1</sup>, Georgi Ts. Momekov, **Emilia D. Naydenova\***, Kolio D. Troev Antitumor activity of new  $\alpha$ -aminophosphonic acids. *Peptides 2006. Proceeding of 29<sup>th</sup> European Peptide Symposium*, (Eds: K.Rolka, P.Rekowski, J.Silberring) 152-153, **2007**
35. Girchev R, P. Markova, **E. Naydenova**, L. Vezenkov. Sympatho-vagal balance after application of nociceptin analog [Dab<sup>9</sup>]N/OFQ(1-13)NH<sub>2</sub> in conscious rats. *Collection, Symp. Series*, (Ed.J.Slaninova), **11**, 37-39, **2009**
36. Petar T. Todorov, **Emilia D. Naydenova**, Georgi Momekov, Kolio D. Troev. Synthesis of novel hydantoin-phosphonic acids and dipeptides consist hydantoin structure with potential biological activity. *Peptides 2008, Proceeding of 30<sup>th</sup> European Peptide Symposium*, (Editors: Hilkka Lankinen, Jari Vallivirta, Tomas Strandin, Jussi Hepojoki), 52-53, **2008**
37. **Emilia D. Naydenova**, Petar T. Todorov, Nikola D. Pavlov, Elena B. Dzhambazova and Adriana I. Bocheva. N/OFQ(1-13)NH<sub>2</sub> analogues with aminophosphonate moiety: synthesis and analgesic activity. *Peptides 2010. Proceedings of the 31<sup>st</sup> European Peptide Symposium*, (Editors: Michal Lebl, Morten Meldal, Knud J. Jensen, Thomas Hoeg-Jensen), 486-487, **2010**

38. A. Bocheva, E. Dzhambazova, P. Todorov, N. Pavlov, **E. Naydenova** . Effects of naloxone and JTC-801 on analgesic activity of novel N/OFQ(1-13)NH<sub>2</sub> analogues. *Proceedings of the 22<sup>nd</sup> American Peptide Symposium*, (Editor: Michal Lebl), *American Peptide Society*, **2011**
39. **Emilia D. Naydenova**, Nikola D. Pavlov, Petar T. Todorov, Elena B. Dzhambazova and Adriana I. Bocheva. Analgesic effects of novel hexapeptide analogues as nociceptin receptor ligands. *Proceedings of the 22<sup>nd</sup> American Peptide Symposium*, (Editor: Michal Lebl), *American Peptide Society*, **2011**

#### **4. Публикации в международни специализирани научни списания с импакт фактор приети след конкурса за „професор” по Органична химия**

40. Petar T. Todorov, Nikola D. Pavlov, Boris L. Shivachev, Rosica N. Petrova, Jean Martinez, **Emilia D. Naydenova**, Monique Calmes. Synthesis of New Racemic and Optically Active N-Phosphonoalkyl Bicyclic  $\alpha$ -Amino Acids via Kabachnik-Fields Reaction as Potential Biologically Active Compounds, *Heteroatom Chemistry*. Article in press DOI: 10.1002/hc.20759, **2011**  
(**IF=1,044** )
41. Petar T. Todorov, Polina I. Mateeva, Rositza N. Zamfirova, Nikola D. Pavlov, **Emilia D. Naydenova\***. Synthesis and biological activity of new series of N-modified analogues of the N/OFQ(1-13)NH<sub>2</sub> with aminophosphonate moiety” *Amino acids* – Article in press DOI: 10.1007/s00726-011-1177-7, **2011**  
(**IF=4,106**)

#### **СПИСЪК НА УЧЕБНИТЕ ПОМАГАЛА**

**(след придобиване на научно звание “доцент”)**

Гл.ас.д-р Д. Даналев, Гл.ас.д-р Н. Калоянов, Проф.дхн Л. Везенков, доц.д-р **Е.Найденова**. “Ръководство за лабораторни упражнения по органична химия”- ХТМУ-София, **2008**

Подготвен за издаване „**Cours de chimie organique**” на френски език за студентите от специалност „Индустрална химия” с преподаване на френски език

Рецензент доц.д-р Иво Грабчев