

REPORT FOR 2006 FROM THE RUSSIAN CHAPTER OF THE I.I.S.

The Russian Chapter of the IIS consists of twenty-four chemists and physicists coming from eight various Russian institutes and companies. The members of the Russian Chapter of the IIS have gathered early November 2006 and reelected professor N.F. Myasoedov as President for 2007 and Dr. Yuri Sidorov as the Secretary. At the same time, the Chapter elected prof. N.F. Myasoedov as their delegate to the IIS Board of Representatives for 2007- 2009.

Activities:

Total 22 articles and 14 patents were published, including 5 in English. (see below):

1. Dolotov O.V., Karpenko E.A., Seredenina T.S., Inozemtseva L.S., Levitskaya N.G., Zolotarev Yu.A., Kamensky A.A., Grivennikov I.A., Engele J., Myasoedov N.F. Semax, an analogue of adrenocorticotropin (4-10), binds specifically and increases levels of brain-derived neurotrophic factor protein in rat basal forebrain. *J. of Neurochemistry*. **2006**. v. 97 (suppl. 1), p. 82-86.
2. Yu. A. Zolotarev, O. V. Dolotov, L. S. Inozemtseva, A. K. Dadayan, E. M. Dorokhova, L. A. Andreeva, L. Yu. Alfeeva, I. A. Grivennikov, N. F. Myasoedov. Degradation of the ACTH(4-10) analog Semax in the presence of rat basal forebrain cell cultures and plasma membranes. *Amino Acids*. **2006**, 30. 403-408.
3. A.A. Andreev-Andrievskii, D.V. Tsvirkun, E.Yu. Makarenko, L.A. Andreeva, A.A. Mart'yanov. Effects of corticoliberin fragment CRF₄₋₆ on sexual Behavior in male mice. *Neuroscience and Behavioral Physiology*. **2006**, v 36, № 7, 755-758.
4. V.P.Shevchenko, I.Yu.Nagaev, N.F.Myasoedov, A.B.Susan, K-H.Switek, H.Braunger. Total synthesis of tritium-labelled BIBN4096, an experimental h-CGRP-antagonist. *Journal of labelled compounds and radiopharmaceuticals*. **2006**, v49,421-427
5. N. E. Shchepina, G. A. Badun, V. D. Nefedov, M. A. Toropova, V. M. Fedoseev, V. V. Avrorin and Scott B. Lewis. Synthesis of arylhalonium compounds [including (4-methylphenyl) phenylfluoronium] by the nuclear-chemical method
- 6.

International Conferences 2006 attended

1. Kulikova, N.A., Badun, G.A., Korobkov, V.I., Pozdnyakova, V.Yu., Perminova, I.V. 2006. Uptake of humic acids by wheat plants: direct evidence using tritium autoradiography. In: *Humic substances - linking structure to functions*, Frimmel F.H., Abbt-Braun G. (Eds.), Proceedings of the 13th Meeting of the International Humic Substances Society, July 30 to August 4, 2006, pp. 425-428.
2. Pozdnyakova, V.Yu., Badun, G.A., Chernysheva, M.G., Tyasto, Z.A., Fedoseev, V.M., Perminova, I.V. 2006. Tritium probe for investigation of humic materials. In: *Humic substances - linking structure to functions*, Frimmel F.H., Abbt-Braun G. (Eds.), Proceedings of the 13th Meeting of the International Humic Substances Society, July 30 to August 4, 2006, pp. 945-948
3. AA Baitov, GV Sidorov, NF Myasoedov Study of Reaction of Solid-State Catalytic Hydrogenation of Carbohydrates with Tritium. *Synth Appl Isotop Lab Comp*, 9th Int Symp, Edinburg July 2006.
4. GV Sidorov, NF Myasoedov, MV Jasko, Yu.S. Skoblov. Synthesis of tritium labelled 2',3'-dideoxy-2',3'-didehydrothymidine. *Synth Appl Isotop Lab Comp*, 9th Int Symp, Edinburg July 2006.
5. YA Zolotarev, AK Dadayan, VS Kozik, RN Ziganshin, BV Vaskovsky, NF Myasoedov
6. Solid State Isotopic Exchange of Hydrogen in Proteins and Peptides. *Synth Appl Isotop Lab Comp*, 9th Int Symp, Edinburg July 2006.

7. GA Rotert, B Surber, N McCracken, D Hickman, T Pagano¹, J Darbyshire, M Emery, S Swanson, T Stratton, IY Nagaev, VP Shevchenko, NF Myasoedov, AB Susan The Syntheses and Use of Tritium-labeled Drugs in Human AME Studies at Abbott. Synth Appl Isotop Lab Comp, 9th Int Symp, Edinburg July 2006.