



INTERNATIONAL E-CONFERENCE CONTEMPORARY PHARMACY: ISSUES, CHALLENGES AND EXPECTATIONS

23rd OF OCTOBER 2020, KAUNAS

ABSTRACT BOOK

2020 autumn

October 23rd, 2020

Kaunas, Lithuania

The international conference “CONTEMPORARY PHARMACY: ISSUES, CHALLENGES AND EXPECTATION. 2020 AUTUMN” is organized by Lithuanian University of Health Sciences, Faculty of Pharmacy, Department of Drug Technology and Social Pharmacy.

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PROGRAMS

PLENARY SECTION

Mokslinė praktinė konferencija „Farmacija šiandien. Ruduo 2020.“

Data: 2020 m. spalio 5 d – gruodžio 2 d.

Vieta: nuotolinė konferencija*

Registracija į konferenciją čia – REGISTRACIJA

išankstinė registracija galima iki spalio 2 d.

* Prisijungti nuotoliniam konferencijos stebėjimui galima adresu (prisijungimo kodu) atsiųstu į asmeninį elektroninį pašta. Dalyvavimas (prisijungimas stebėjimui) galimas iki gruodžio 2 d.

Trukmė: 6 ak. val.

Paskirtis: farmacijos specialistų, visų specialybių gydytojų ir slaugytojų profesinės kvalifikacijos tobulinimui.**

Informacija pasiteiravimui: 8-37328303, fps@lsmuni.lt

Elektroninio pažymėjimo išdavimui būtina susikurti paskyrą LSMU podiplominių studijų sistemoje <https://medas.lsmu.lt/user/register>

PROGRAMA

Laikas	Trukmė min.	Pranešimo pavadinimas	Lektorius
14.00-14.45	45	Streso įtaka ir valdymo galimybės visuomenės vaistininko darbe.	Doc. dr. Jurgita Daukšienė, LSMU MA FF Vaistų technologijos ir socialinės farmacijos katedra
14.45-15.45	60	Darbo santykių teisinis reglamentavimas.	Asist. Ugnė Genienė, LSMU MA FF Vaistų technologijos ir socialinės farmacijos katedra
15.45-16.30	45	Medicininiai grybai – imuninės sistemos sergėtojai.	Prof. dr. Nijolė Savickienė, LSMU MA FF Farmakognozijos katedra
16.30-17.15	45	Stresas ir virškinamojo trakto susirgimai. Bioreguliacinės terapijos galimybės.	Dr. Virginija Gudavičienė, Homeopatijos ir homotoksikologijos asociacija
17.15-18.00	45	Gyvensenos ir fitocheminių medžiagų poveikis kancerogenezei.	Prof. dr. Virginijus Šapoka, VU MF Vidaus ligų, šeimos medicinos ir onkologijos klinika
17.45-18.15	30	Ferodeficitinės anemijos etiologija ir gydymas.	Doc. dr. Rolandas Gerbutavičius, LSMU MA MF Onkologijos institutas, Onkologijos ir hematologijos klinika

Iš viso: 270 min. Užskaitoma trukmė 6 ak. val.

SCIENTIFIC SECTION

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Timetable

9.30-9.40	Welcome Speeches Prof. Dr. Jurga Bernatoniene Head of Drug Technology and Social Pharmacy, Lithuanian University of Health Sciences Assoc. Prof. Dr. Giedrė Kasparavičienė conference coordinator
9.45-11:50	Students Section Moderators: Gabrielė Vilkickytė and Jurga Andrėja Kazlauskaitė
12:00-12:35	PhD Students Section Moderators: Lect. Dr. Gabrielė Balčiūnaitė-Murzienė and Lect. Dr. Agnė Mazurkevičiūtė
12:45-14:30	Scientist Section Moderators: Prof. Dr. Lina Raudonė and Assoc. Prof. Dr. Giedrė Kasparavičienė
	Closing remarks

The list of rewards will be announced in the Teams class environment and e-mail. Conference certificates will be sent personally by e-mail.

Place: Microsoft Team virtual meeting room

HISTORY OF PHARMACY SECTION

Dedicated to the first pharmaceutical periodical journal in Lithuania: *Pamiętnik Farmaceutyczny Wileński (Notes of Vilnius Pharmacy)*

Moderators: Ramūnas Kondratas, Vilma Gudienė

10:00–10:10 Welcome speeches

Prof. Ramunė Morkūnienė, Dean of the Faculty of Pharmacy, Lithuanian University of Health Sciences

Prof. Dušanka Krajnovič (University of Belgrade, Serbia) Secretary – General of the International Society for the History of Pharmacy

10:10–10:25 Algirdas Utkus, Dalia Triponienė, Indrė Trečiokienė, Lina Zabulienė (Vilnius University, Vilnius Medical Society) - Vilnius Medical Society and Pharmacy Science: History Continues

10:25–10:40 Vilma Gudienė, Ramūnas Kondratas (Lithuanian University of Health Sciences, Museum of the History of Lithuanian Medicine and Pharmacy, Lithuania) - The first pharmaceutical periodical journal in Lithuania: *Pamiętnik Farmaceutyczny Wileński (Notes of Vilnius Pharmacy)*

10:40–10:55 Ona Ragažinskienė (Vytautas Magnus University, Lithuania) - Pharmacist and editor of the periodical journal *Pamiętnik Farmaceutyczny Wileński (Notes of Vilnius Pharmacy)* prof. Johannes Friedrich Wolfgang (1776–1859)

10:55–11:10 Prof. Axel Helmstädter (Goethe University, University of Frankfurt, Germany) - Pharmaceutical publishing in Germany during the 18th – 20th centuries

11:10–11:25 Arnaud Parent (Mykolas Romeris University, Lithuania) - Chemistry to promote pharmaceuticals, or pharmaceuticals to promote chemistry? Fourcroy and the *Journal of the Paris Society of Pharmacists* (1796-1799)

11:10–11:25 Mary Schaeffer Conroy (University of Colorado, Denver, USA) - The Russian-language pharmaceutical press, 1867-1916

11:25–11:40 Ain Raal (University of Tartu, Estonia) - Pharmaceutical periodical journals in Estonia

11:40–11:55 Kaspars Antonovičs, Juris Salaks (Rīga Stradiņš University, Institute of the History of Medicine) - Pharmaceutical press in Latvia

11:55–12:10 Halil Tekiner (Erciyes University, Turkey) - A historical glance at pharmaceutical caricatures in the Turkish press

12:10–12:25 Viktorija Šimkutė (Lithuanian University of Health Sciences, Lithuania) - The prevention of infectious diseases as presented in the military periodicals *Kariškių žodis* (Word of Soldiers) and *Karys* (Soldier), 1919-1923

12:25–12:40 Angelė Rudžianskaitė, Vilma Gudienė (Lithuanian University of Health Sciences, Museum of the History of Lithuanian Medicine and Pharmacy, Lithuania) - Advertisements in the Lithuanian pharmaceutical journals, 1923–1940.

Closing of the section

Assessment of the psychotropic properties of an analogue of a functionally active site of a neuropeptide Y

Ihnat Havrylov*¹, Sergiy Shtrygol¹

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Introduction. Neuropeptide Y (NPY) has a crucial role in the regulation of various essential physiological functions. NPY regulates food intake, memory processing and emotional behavior etc [1]. It is considered that the C-terminal region of the NPY is responsible for binding to the receptor [2]. An original nonapeptide, which is an analogue of the functionally active site of the NPY, was synthesized for us by Shanghai Apeptide Co., Ltd. (China). Therefore, it could have at least partially the properties of NPY. Intranasal rout of administration makes possible high cerebral bioavailability. Aim of our investigation was to evaluate the psychotropic properties of new nonapeptide.

Materials and methods: Studies were performed on mice and rats (n=6-8 in each group). Psychopharmacological tests were used: open-field (OF), elevated plus-maze (EPM), Vogel conflict test (VT), passive avoidance test (PAT), weight-loaded swimming test (WLST) and tail suspension test (TST) [3]. As referent drugs Semax 0.1 mg/kg, Gidazepam 15 mg/kg and Imipramine 20 mg/kg were used. The peptide was dissolved in saline and administrated in doses 0.2-0.4 mg/kg intranasally 30 min before testing. Mann-Whitney test was used for statistical analysis.

Results: In the OF test we observed an increase of total activity and reducing grooming. EPM showed significant increasing transition open arm and time in open arm compare to Semax. In the VT the nonapeptide showed a significant increase ($p < 0.05$ vs intact control) in the number of punished drinking, which was not less than the effect of Gidazepam. WLST showed presence of antifatigue nonapeptide activity better than Semax ($p < 0.05$). Antidepressant activity has been shown in TST, where the peptide showed significant increase in the latency immobility time compare to Imipramine ($p < 0.05$). PAT showed positive influence of the nonapeptide on memory, which is better than that of Semax ($p < 0.05$). No difference between results in two rodent species.

Conclusions: These data indicate the presence of a nontrivial combination of psychotropic properties. New nonapeptide has experimentally proven anxiolytic, antidepressant, nootropic and antifatigue properties, which makes it promising for further in-depth pharmacological study.

References

1. Havrylov I, Zagayko A. Перспективи фармакологічного застосування нейропептиду Y та його фрагментів. *Medical and Clinical Chemistry*. 2019;(1):113-119.
2. Beck-Sickinger A, Jung G. Structure-activity relationships of neuropeptide Y analogues with respect to Y1 and Y2 receptors. *Biopolymers*. 1995;37(2):123-142.
3. Hock F. *Drug Discovery and Evaluation: Pharmacological Assays*. Cham: Springer International Publishing; 2016.