



Curriculum Vitae




Зима І.Г..

PERSONAL INFORMATION



(фотографія)

IHOR ZYMA

 official address Volodymyrs'ka str, 64/13, Kyiv, 01601, Ukraine
 Official telephone number (+380 44) 521 3283
 Official email igor.zyma@knu.ua

Sex M | Date of birth 04/05/1957 | Citizenship Україна

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| Scientific Degree | Doctor of Biological Sciences |
| Academic Degree | Senior researcher |
| Occupation | Associate Professor |
| Department | Human and Animal Physiology |
| Institute | ESC "Institute of Biology and Medicine" Taras Shevchenko National University of Kyiv |
| Part-time Position | |

Courses belonging to teaching experience:

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| Current year | <ol style="list-style-type: none">Electrophysiology of the brain, 1st year of Master's program (Biology), seminars & laboratory classes.Neuroimaging. 1st year of Master's program (Biology), seminars & laboratory classesAnatomy and physiology of the central nervous system, 1st year of Bachelor's program (Psychology), lectures & seminars.Biology of mental and behavioral disorders. 1st year of Master's program (Psychology).Physiology of the CNS with the basics of higher nervous activity 1st year of Bachelor's program (Socio-pedagogical studies), lectures & seminars.Neurophysiology seminars.Human physiology and anatomy, 1st year of Bachelor's program (Biology), laboratory lessons |
| Previous years | Zoopsychology with the basics of anthropology . 2 nd year of Master's program (Biology); lectures, seminars, and laboratory |

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| | lessons. |
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SCIENTIFIC AND TEACHING EXPERIENCE

| Time period (starting from the last) | Degree Level (Description) |
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| 2018 – current | <u>Associate Professor</u> |
| | Taras Shevchenko National University of Kyiv (Volodymyrs'ka str, 64/13, Kyiv, 01601, Ukraine, www.univ.kiev.ua) |
| | Teaching: lectures, practical classes and seminars in various physiological disciplines for students of biological and psychological educational programs; development of new courses, and guidelines for teachers and students; preparation of test tasks in various sections of the courses mentioned above. Supervision of undergraduate and graduate students, academic group supervision. |
| | <u>Scope of validity</u> Education/Science |
| 2001 – 2018 | <u>Associate Professor</u> |
| | Taras Shevchenko National University of Kyiv (Volodymyrs'ka str, 64/13, Kyiv, 01601, Ukraine, www.univ.kiev.ua) |
| | Department of Human and Animal Physiology |
| | <u>Scope of validity</u> Education/Science |
| 2011 – 2018 | Head of laboratory department of Human Brain Physiology and Psychophysiology, Petro Bogach Research Institute of Physiology, ESC "Institute of Biology and Medicine" Taras Shevchenko National University of Kyiv, Taras Shevchenko National University of Kyiv (Volodymyrs'ka str, 64/13, Kyiv, 01601, Ukraine). <u>Scope of validity:</u> Education/Science |
| 2007 – 2011 | <u>Head of research laboratory «Biophysics of Excitable Systems»</u> ESC "Institute of Biology and Medicine" Taras Shevchenko National University of Kyiv, Taras Shevchenko National University of Kyiv (Volodymyrs'ka str, 64/13, Kyiv, 01601, Ukraine). |
| | Scientific Experience |
| 1996 – 2001 | <u>Senior Researcher</u> |
| | Petro Bogach Research Institute of Physiology, ESC "Institute of Biology and Medicine" Taras Shevchenko National University of Kyiv, Taras Shevchenko National University of Kyiv (Volodymyrs'ka str, 64/13, Kyiv, 01601, Ukraine). <u>Scope of validity</u> Science |
| 1987 – 1996 | <u>Researcher</u> |
| | Petro Bogach Research Institute of Physiology, ESC "Institute of Biology and Medicine" Taras Shevchenko National University of Kyiv, Taras Shevchenko National University of Kyiv (Volodymyrs'ka str, 64/13, Kyiv, 01601, Ukraine). <u>Scope of validity</u> Science |
| 1979 – 1987 | Senior Assistant, Petro Bogach Research Institute of Physiology, ESC "Institute of Biology and Medicine" Taras Shevchenko National University of Kyiv, Taras Shevchenko National University of Kyiv (Volodymyrs'ka str, 64/13, Kyiv, 01601, Ukraine). <u>Scope of validity</u> Science |

EDUCATION AND TRAINING

| Time period (starting from) | Degree Level (Description) |
|-----------------------------|----------------------------|
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| the last) | |
| 1974 - 1979 | Kyiv National Univesity, Kyiv, Ukraine Qualification: Biologist (Physiologist), teacher of Biology and Chemistry |
| 1992 | Research Institute of Physiology, Taras Shevchenko National University of Kyiv, Kyiv, Ukraine Ph. D. (Biology), title of the thesis «Electrophysiological study of brain olfactory structures in rats: neurophysiological aspects of behavior» |
| 2015 | Senior Assistant, Petro Bogach Research Institute of Physiology, ESC “Institute of Biology and Medicine”, Kyiv, Ukraine Doctor of Biological Sciences, title of the thesis «Neurophysiological mechanisms of natural odors perception in humans » |

PERSONAL SKILLS

| Name | Level (description) |
|---|---|
| Native language | Ukrainian |
| Foreign language 1 | Russian, fluent |
| Foreign language 2 | English, B2 (English for professional purposes) |
| Communication skills | <i>Organization if team work (offline and online)</i> |
| Organizational competencies/ management | Organization and supervision of paper work within the department, <i>regular participation in organizational committees of scientific conferences.</i> |
| Digital skills | Data analysis: «Statistica», MS Excel., “Statgraphics” Online teaching: Google Class, Створення презентацій: Power Point, Communication: Skype, Viber, Telegram, відеоконференції Zoom, Google Meet. |
| Other computer skills | Google Docs, MS Word, MS Excel, |
| Professional skills | Talks at popular science lectures held on public platforms, TV and radio. Creation of popular scientific movies. Well acquainted with the field of development and planning of research on the application of IT - technologies in psycho- and neurophysiological research. |
| Field of professional interests | Learning based on the functional principles of the brain; physiological mechanisms of information assimilation, brain processing of emotional stimuli. |

Application (optional, references for open sources)

| Name | Reference |
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Publications

1. M. Chernykh, I. Zyma Peculiarities of information transfer within functional cortical network during emotional face perception
2. Zyma, I., Tukaev, S., Seleznov, I., Kiyono, K., Popov, A., Chernykh, M., & Shpenkov, O. (2019). Electroencephalograms during Mental Arithmetic Task Performance. *Data*, 4(1), 14. doi: 10.3390/data4010014
3. . Seleznov, I., Zyma, I., Kiyono, K., Tukaev, S., Popov, A., Chernykh, M., & Shpenkov, O. (2019). Detrended Fluctuation, Coherence, and Spectral Power Analysis of Activation Rearrangement in EEG Dynamics During Cognitive Workload. *Frontiers in Human Neuroscience*, 13. doi: 10.3389/fnhum.2019.00270
4. Olena Zmazhenko, Natalia Filimonova, Mykola Makarchuk, Igor Zyma, Oleh Horbunov, Valentyn Kalnysh The Influence of «Acoustic Peak» of the Audiograms on the Structure of the Neuronets of the Brain at Veterans of OOS With Traumatic Brain Injury During Testing Visual Working Memory // *Lesya Ukrainka Eastern European National University Scientific Bulletin. Series: Biological Sciences/ Human and Animal Physiology* 2019, 3 (387), P.116-122.
5. N. Filimonova, M. Makarchuk, I. Zyma, V. Kalnysh, A. Cheburkova, E. Torgalo. Features of interregional interaction in the brain of military men with traumatic brain injuries during testing visual working memory on complex stimuli // *Bulletin of Cherkasy University. Series: Biological Sciences* N.1, 2019.P.91-102 DOI: 10.31651/2076-5835-2018-1-2019-1-91-102
6. Havrylets, Y. D., Tukaiev, S. V., Rizun, V. V., Radchuk, O. M., & Zyma, I. G. Impact of TV News on Psycho-Physiological State Depending on Emotional Burnout // *Human Communication Research* 2018...
7. Chernykh M., Zyma I. (2018). Influence of the current context created by the perception of emotional facial expressions on the target presentation of neutral visual images. *Bulletin of Taras Shevchenko National University of Kyv, Series: Problems of Physiological Functions Regulation* 24 (1), pp. 46-51. DOI: http://dx.doi.org/10.17721/2616_6410.2018.24.46-51
8. Tukaiev S., Zyma I., Sosiedka I. Frontal alpha asymmetry during the olfactory information process revealed dependence on burnout level // *European Neuropsychopharmacology*, (September, 2016). 26 (2): S188-S189
9. Vasilchenko A., Abbasova G., Derevinskaya L., Kashpur D., Tukaiev S., Zyma I., Havrylets Y., Pogoril'ska N., Makarchuk M., Rizun V. The influence of excessive TV viewing on psycho-emotional state of youth audience. // *International Scientific and Practical Conference "WORLD SCIENCE" 2015.*, 1(5):, 60-63.
10. Plakhotnyk N., Tukaiev S., Zyma I., Bas-Kononenko O., Dudnyk Z. Verbal ethnic symbols as an indicator of language perception by bilinguals. *Austrian J. of Humanities and Social Sciences*.2015. 7(8): 29-31.
11. С. А. Крижановский, А. А. Чернинский, О. В. Иваненко, И. Г. Зима, И. Н. Карабань Изменения источников когнитивных вызванных потенциалов р300 у больных болезнью Паркинсона // *Болезнь Паркинсона и расстройства движений. Руководство для врачей.* – М., 2014. – С. 155-157.
12. I.G. Zima, N.Ye. Makarchuk, S.A. Kryzhanovskii, S.V. Tukaev Effects of Passive Perception of Isoamyl Acetate Smell on the Rest.ing-St.ate EGG in Humans // *Neurophysiology.* – 2014. 46 (6): 486-493
13. Тукаев С.В., Вашека Т.В., Зима И.Г. Психологические и нейрофизиологические аспекты развития синдрома эмоционального выгорания // *Актуальные аспекты внутренней медицины: коллективная научная монография; [под ред. В.П. Волкова]. Новосибирск: Изд. «СибАК», 2013. — 112с. (С.86-107)*
14. Cherninskii A. A., Piskorskaya N. G., Zima I. G., Krizhanovskii S. A. and Makarchouk N. Ye. Individual/Typological peculiarities of EEG rearrangements in humans related to the analysis of olfactory information: role of extroversion/introversion // *Neurophysiology* – 2010 .42(1): 63-69
15. Чернінський А. О., Собіщанський С. О., Крижановський С. А., Зима І. Г., Піскорська Н. Г., Макарчук М. Ю. Виявлення джерел викликаної активності головного мозку людини за допомогою алгоритму аналізу незалежних компонентів // *Фізика живого* – 2010 – Т. 18, № 1 – С. 52-60.
16. А.О. Чернінський, С.А. Крижановський, І.Г. Зима Зв'язок фонових та реактивних значень спектральної потужності ЕЕГ людини при виконанні діяльності з різним ступенем інформаційної насиченості // *Фізика живого*. 2010. 18(2): 85–91.
17. С. А. Крижановський, І. Г. Зима, С. В. Тукаєв Частотна структура електроенцефалограми людини під час запам'ятовування вербальної інформації // *Фізика живого*.-2010-Т.18, №1.-С.36-41.
18. Cherninskii A. A., Zima I. G., Makarchouk N. Ye., Piskorskaya N. G. and Kryzhanovskii S. A. Modifications of EEG Related to Directed Perception and Analysis of Olfactory Information in Humans // *Neurophysiology* – 2009 – V. 41, N 1 – P. 63-70.
19. С. А. Крижановський, И. Г. Зима, С. В. Тукаев, А. А. Чернинский Взаимосвязь эффективности деятельности человека с ЭЭГ-характеристиками его исходного состояния покоя // *Ученые записки*

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| | Таврического национального университета им. В. И. Вернадского. Серия "Биология, химия". 2009. 22 (61), (1) : 50-58. |
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Application (optional, references for open sources)

| Name | Reference |
|---------------------------------|---|
| | |
| Projects | 1. Series «Human Anatomy» (dir. S. Chemerys) 2. Movie «Code of the Nation» (dir. I.Pavlyuk) |
| Participations in organizations | Ukrainian Physiological Society Federation of European Neuroscience Societies Ukrainian Society of Neuroscience |
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Голова Науково-методичної ради

В.А.Бугров