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Multitasking:
Alzheimer's disease is also caused by a disruption of mitochondrial proteostasis.

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Keywords: Alzheimer's disease, multitasking, tau protein, amyloid, mitochondria, mitochondrial proteostasis, ubiquitin, autophagy (mitophagy).

Goal of the study: To find other causes than tau protein and amyloid accumulation in brain.

Introduction: Alzheimer disease (AD) and mechanisms underlying its etiology and progression are complex and multifactorial. The higher AD risk in women may serve as a clue to better understand these complicated processes [1]. Lifestyle behaviors such as poor diet and reduced physical activity, as well as environmental and metabolic risk factors. Described negatively tau protein impacts mitochondria, with provocation of AD and tauopathies [2,3]. Beta amyloid is present on the outside of cells in the form of plaques. Tau protein, inside cells in the form of glomeruli.
Material and methods: Were analyses articles from Google Scholar database, from the last 5 years 2020-2025, mentioned such words as "Alzheimer's disease", "multitasking", "tau protein", "amyloid", "mitochondria", "mitochondrial proteostasis", "ubiquitin", "autophagy (mitophagy)".
Results: Three types of task were administered to patients and 30 healthy controls: 1) informant –based scales and questionnaires, 2) a neuropsychological assessment exploring executive functions, episodic and semantic memory, and 3) a new original tests featuring multi-step naturalistic actions and multitasking: The Sequential Daily Life multitasking (SDLM). We predicted that patients with AD would mainly exhibit

task perplexity. The accumulation of soluble and insoluble aggregated amyloid-beta may potentiate pathologic processes in AD [4,5].

Conclusion: According to burgess (200a), multitasking is a common characteristic of most daily life activities and relates to situations involving several tasks of carrying difficulty or priority. Performances on these tasks need to be dovetailed. A large amount of evidence supports the amyloid cascade hypothesis, which stated that amyloid-beta accumulation triggers tau hyperphosporylation and aggregation [6]. In the context of which, eu-ergic mitochondria with the normalization of mitochondrial uniporter-Ca++ and mitochondrial permeability pore transition, productively inactivating the active oxygen species and reactive nitrogen species, rejects the necrosis / apoptosis, cellular hypo- (an) ergic and proves the mitochondrial eu-energetic metabolic remodeling with the elimination of the hypo (an) ergic mitochondria performed by clearance lysosomal (mitophagy) [7-9]. Thus improving the functional activity of mitochondria, which is very important for AD. Accumulation of damaged mitochondria is a hallmark of aging and age-related neurodegeneration, including AD. Mitochondrial dysfunction (MD) is being considered as a potential therapeutic target in the treatment of AD and other neurodegenerative diseases. MD contributes to the development of many chronic, fatal diseases, such as Leigh syndrome and mitochondrial myopathy. These include the most severe forms of diabetes mellitus with deafness. MD also contribute to the development of neurodegenerative diseases, including Parkinson's and AD. Scientific research, supports the relevance of enhancing mitochondrial proteostasis to delay amyloid-β proteotoxic diseases, such as AD. Mitochondrial proteostasis is a localized form of mitochondrial homeostasis within general systemic homeostasis. It is a quality control system for intramitochondrial proteins. 1. Ensuring the proper formation of the unique three-dimensional structure of the protein molecule from a linear amino acid chain (proper folding), in which the protein assumes the most energetically favorable shape necessary for its cellular function, which is critical for protein activity. 2. The functioning. 3. Accumulation of toxic endogenous substances (degradation of damaged proteins), in the event of disruption of the ubiquitin-proteasome system (for short-lived proteins) and autophagy (for long-lived, aggregated proteins)[10-14].

It is important to note that life-saving successes in critically ill patients were discussed in our published studies with targeting therapies Lysosomal Mitochondrial Clearance of Autophagy (Mitophagy) and Abnormal/Extreme Myelopoiesis of the non-functional and incapable mitochondria to generate the energy needed by the body [15-48] and in the case of AD mental energy.

Scientific coverage of the relationship between gender and refractive error of the eye: problems and prospects, was considered as a localized disorder of mitochondrial dysfunction of mitochondrial proteostasis, a localized form of ocular mitochondrial homeostasis within general systemic homeostasis. With a description of sex-specific differences in the expression of mitochondrial genes and mitochondrial target proteins (MTPs) involved in oxidative phosphorylation (OXPHOS), in contrast to women, who showed increased expression of non-OXPHOS MTPs, indicating a pronounced sexual dimorphism of energy metabolism at the whole-body level. In energy homeostasis, the role of glucose as an energy substrate in the regulation of the menstrual cycle deserves special attention [49,50].

References

1. Lopez-Lee C, Torres ERS, Carling G, Gan L. Mechanisms of sex differences in Alzheimer's disease. Neuron. 2024 Apr 17;112(8):1208-1221. doi:

10.1016/j.neuron.2024.01.024. Epub 2024 Feb 22. PMID: 38402606; PMCID: . PMC11076015
2. Pagani L, Eckert A. (2011). Amyloid-Beta interaction with mitochondria. Int J Alzheimers Dis.;2011:925050. doi: 10.4061/2011/925050. PMID: 21461357; PMCID: PMC3065051.
3. Szabo L, Eckert A, Grimm A. (2020). Insights into Disease-Associated Tau Impact on Mitochondria. Int J Mol Sci.;21(17):6344. doi: 10.3390/ijms21176344. PMID: 32882957; PMCID: PMC7503371.
4. Jarry C, Osiurak F, Baumard J, Lesourd M, et al. (2021). Daily life activities in patients with Alzheimer's disease or semantic dementia: Multitasking assessment. Neuropsychologia;150:107714. doi: 10.1016/j.neuropsychologia.2020.107714. Epub 2020 Dec 4. PMID: 33285188.
5. van Dyck CH, Swanson CJ, Aisen P, Bateman RJ, et al. (2023). Lecanemab in Early Alzheimer's Disease. N Engl J Med;388(1):9-21. doi: 10.1056/NEJMoa2212948. Epub 2022 Nov 29. PMID: 36449413.
6. 6.Roda AR, Serra-Mir G, Montoliu-Gaya L, Tiessler L, Villegas S. Amyloid-beta peptide and tau protein crosstalk in Alzheimer's disease. Neural Regen Res. 2022 Aug;17(8):1666-1674. doi: 10.4103/1673-5374.332127. PMID: 35017413; PMCID: PMC8820696.
7. Vasiliev I., Vasilieva Maria, Vasilieva Irina, et al. (2019). The recruitment of microcirculatory-mitochondrial of critical obstetric situations in the complex multi-organ support therapy reduces pCO2 (AV gap) and the development of the syndromeof acutemulti-organ dysfunction. Biochem Mol biol,5:22. DOI: 10.21767/2471-8084-C1-022 https://www.researchgate.net/profile/Ilie-Vasiliev/publication/348076731_Amsterdam_2019_EuroSciCon/links/5fee415fa6fdccdcb81e97cd/Amsterdam-2019-EuroSciCon.pdf
8. Vasilieva Irina, Vasilieva Maria, & Vasiliev I. (2024). Amnesia and homework. Special Journal of the Medical Academy and Other Life Sciences., 2(8). DOI: https://doi.org/10.58676/sjmas.v2i8.89
9.Vasilieva, I., Vasilieva, M., & Vasiliev, I. (2024). Role of glucose in regulating menstrual cycle.Special Journal of the Medical Academy and Other Life Sciences., 2(8) DOI: https://doi.org/10.58676/sjmas.v2i8.90
https://sjmas.com/index.php/sjmas/article/view/90/80
10.Fang, E.F., Hou, Y., Palikaras, K. et al. (2019). Mitophagy inhibits amyloid-β and tau pathology and reverses cognitive deficits in models of Alzheimer's disease. Nat Neurosci **22**, 401–412 . https://doi.org/10.1038/s41593-018-0332-9
https://www.nature.com/articles/s41593-018-0332-9
11. A. F. Kolpakova, R. N. Sharipov, O. A. Volkova. (2022). Russian neurological journal; 27(4):5 DOI: 10.30629/2658-7947-2022-27-4-5-15
12. Sorrentino, V., Romani, M., Mouchiroud, L. et al. Enhancing mitochondrial proteostasis reduces amyloid-β proteotoxicity. Nature 552, 187–193 (2017). https://doi.org/10.1038/nature25143
13. Buneeva OA, Medvedev AE. Ubikvitin-nezavisimaia degradatsiia belkov v proteasomakh [Ubiquitin-independent protein degradation in proteasomes]. Biomed Khim. 2018 Mar;64(2):134-148. Russian. doi: 10.18097/PBMC20186402134. PMID: 29723144. https://pubmed.ncbi.nlm.nih.gov/29723144/
14. Herdy J, Traxler L, Agarwal R ... (2022). Increased post-mitotic senescence in aged human neurons is a pathological feature of Alzheimer's disease. Cell Stem Cell, 29, 1637-1652.e6 https://www.cell.com/cell-stem-cell/fulltext/S1934-5909(22)00457-X

15. Vasiliev Ilie. (2009). Respiratory Suport with Alveolar Recruitment for Complex Treatment of Acute Lung Injury and Acute Respiratory Distress Syndrome.Krasnoyarsk: International Congress for Respiratory Support. Book of Abtracts III International Congress for Respiratory Suport Krasnoyarsk, 2-7
16. Vasiliev I. Vasilieva Maria, Vasilieva Ilie, Catereniuc I. et al. (2016). Aggressiveness syndrome hyperantiinflammatory immune CHAOS dissonance and extracorporeal myelotimospleen perfusia. Togliatti Medical Council, 3-5:64-67.
https://www.elibrary.ru/item.asp?id=27208738
17. Vasilieva Maria, Vasilieva Irina,Vasiliev I., Malakhova M., Groppa S. et al. (2019). Electro -Ion Membrane Distress Syndrome induces Chronic Fatigue Syndrome/Myalgic Encephalomyelitis (CFS/ME). Journal of Clinical Research in Anesthesiology, 2: 2
https://www.researchgate.net/publication/351887239_Electro_-_Ion_Membrane_Distress_Syndrome_induces_Chronic_Fatigue_SyndromeMyalgic_Encephalomyelitis_CFSME
18. Vasilieva Maria, Vasilieva Irina, Vasiliev I. Groppa S. et al. (2018). Neurovegetative correction of diencephalic-hyperkinetic, catabolic adrenergic syndrome. Journal of Clinical Research in Anesthesiology, 1:2
https://www.researchgate.net/publication/348198142_Neurovegetative_Correction_of_Diencephalic_-Hyperkinetic_Catabolic_Adrenergic_Syndrome_under_a_Creative_Commons_Attribution_CC-BY_40_license
https://asclepiusopen.com/journal-of-clinical-research-in-anesthesiology/volume-1-issue-2/5.pdfhttps://www.researchgate.net/publication/348198142_Neurovegetative_Correction_of_Diencephalic_-Hyperkinetic_Catabolic_Adrenergic_Syndrome_under_a_Creative_Commons_Attribution_CC-BY_40_license
19. Vasilieva Maria, Vasilieva Irina, Vasiliev I. Groppa S. et al. (2020). Intralipid in the Target Treatment of Lipid Peroxidation Disorder Caused by Oxidative and Nitro-Galogenic Stress in Patients with SARS-Cov2/COVID/19. Journal of Advances in Medical and Pharmaceutical Sciences, 20:11:20-30
DOI: 10.9734/jamps/2020/v22i1130202
https://hal.science/hal-05301570
https://www.researchgate.net/publication/370400568_Intralipid_in_the_Target_Treatment_of_Lipid_Peroxidation_Disorder_Caused_by_Oxidative_and_Nitro-_Galogenic_Stress_in_Patients_with_SARS-Cov2_COVID_19
https://journaljamps.com/index.php/JAMPS/article/view/470
20. Vasilieva M. Vasilieva I. Vasiliev I., Litarczek G et al. (2018). De-instalation of the MODS by Associating the Microcirculatory-mitochondrial Recruitment with MOST in ELSO. Perinatology Bulletin. Journal of Research Practice Suppliment, 3:6.
https://ru.scribd.com/document/391903001/Buletin-de-Perinatologie-Supliment
21. Vasilieva Irina, Vasilieva Maria, Vasiliev Ilie. (2023). Recruitment Microcirculatory -Mitochondrial through a permissive systemic perfusion pressure combats microcirculatory -mitochondrial distress syndrome. Cases report. Special journal of the Medical Academy and other Life Sciences, 1:4:1-8.DOI: https://doi.org/10.58676/sjmas.v1i4.24
https://www.researchgate.net/publication/369884202_London_Irina_Vasilieva_Maria_Vasilieva_Ilie_Vasiliev_Recruitment_Microcirculatory_-

_Mitochondrial_through_a_permissive_systemic_perfusion_pressure_combats_Microcirculatory_-_Mitochondrial_Distress_syn
22. Vasilieva Maria, VasilievIlie, VasilievaIrina, Groppa Stanislav. (2022). TU-237. Recurrence of COVID-19 infection with meningitis without pulmonary involvement. Clinical Neurophysiology, 141: S1–S54 doi: 10.1016/j.clinph.2022.07 .
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9436445/USA PubMed USA
23. M, Vasiliev I, Vasilieva I, Groppa S. TU-237. Recurrence of COVID-19 infection with meningitis without pulmonary involvement Clinical Neurophysiology: Official Journal of the International Federation of Clinical Neurophysiology. 2022 Sep;141: S53-S53. PMCID:PMC9436445.
https://europepmc.org/article/pmc/pmc9436445 Europre PMC
24. Vasiliev Ilie,Vasilieva Maria, Vasilieva Irina et al. (2018). Suspendarea sindromului detresei microcirculator–mitocondriale prin recrutarea microcirculator–mitocondrială a situațiilor critice obstetricale. Congres Național al Societății de Obstetrică și Ginecologie din România, 167-168
https://ibn.idsi.md/vizualizare_articol/152565
https://www.researchgate.net/publication/348311032_Suspendarea_sindromului_detresei_microcirculator_-_mitocondriale_prin_recrutarea_microcirculator_-_mitocondriala_a_situatiilor_critice_obstetricale
25. Vasiliev I. Vasilieva I., Visnevschi A., Vasilieva M. (2023). Total Quality Management as Predictor of Artificial Intelligence Ensures Competitive Marketing. Special journal of the Medical Academy and other Life Sciences, 1:8:3-9. DOI:https://doi.org/10.58676/sjmas.v1i8.47
https://www.researchgate.net/publication/382823509_Irina_Vasilieva_Anatolie_Visnevchi_Maria_Vasilieva_Ilie_Vasiliev_quanmianzhiliangguanlizuoweirengongzhinengdeyuceqiquebaoshichangjingzheng_Total_Quality_Management_as_Predictor_of_Artificial_Intellige
26. Vasilieva Irina, VasilievaMaria, Vasiliev Ilie. (2021). Forty Years Success of No Maternal Mortality in Critical Obstetrics on the Operating Table. A decrease in the increased marker of tissue hypoxia pCO2>(AV-gap) in microcirculatory-mitochondrial distress syndrome in critical obstetrics is achieved by complex methods of recruiting microcirculatory-mitochondrial distress syndrome. Biomedical Research and Clinical Reviews, 4:1: 1-28. E-Book | DOI: https://doi.org/10.31579/2692-9406/067
https://www.researchgate.net/publication/351945001_A_masterpiece_of_the_gold_international_treasury_Forty_Years_Success_of_No_Maternal_Mortality_in_Critical_Obstetrics_on_the_Operating_Table_A_Decrease_in_The_Increased_Marker_of_Tissue_Hypoxia_PCO2_Av
https://www.researchgate.net/profile/Ilie-Vasiliev/publication/351945001_A_masterpiece_of_the_gold_international_treasury_Forty_Years_Success_of_No_Maternal_Mortality_in_Critical_Obstetrics_on_the_Operating_Table_A_Decrease_in_The_Increased_Marker_of_Tissue_Hypoxia_PCO2_Av/links/60b1280745851557baa6b6ad/A-masterpiece-of-the-gold-international-treasury-Forty-Years-Success-of-No-Maternal-Mortality-in-Critical-Obstetrics-on-the-Operating-Table-A-Decrease-in-The-Increased-Marker-of-Tissue-Hypoxia-PCO2-Av.pdf
27. Vasilieva Irina, Vasilieva Maria, Vasiliev Ilie. (2023). Lipid Therapy for Dyslipidemic Disorders Activates 21st Century Nano Antioxidant Hydrogen as a

Potential Anti-COVID-19 Agent. Special Journal of the Medical Academy and other Life Sciences, 1:7.DOI: https://doi.org/10.58676/sjmas.v1i7.41
https://www.researchgate.net/publication/373790803_Lipid_Therapy_for_Dyslipidemic_Disorders_Activates_21st_Century_Nano_Antioxidant_Hydrogen_as_a_Potential_Anti-COVID-19_Agent_Review
28. Vasiliev I. Vasilieva Maria. Vasilieva Ilie. et al. (2018). Suspending Microcirculatory-Mitochondrial Distress Syndrom by Recruiting Microcirculatory-Mitocondrial Disorders of Obstetric Critical Situations.Scientific Coordinator. Professor Dr. Onofriescu. E-poster. Iasi, Romania: National Congressional Society of Obstetric and Gynecological Society of Romania. Sum of Summaries, 41.
https://www.researchgate.net/publication/353164296_National_Congress_of_the_Society_of_Obstetrics_and_Gynecology_from_Romania_20092018_Volume_of_Abstracts_Co-ordinator_Professor_Dr_Mircea_Onofriescu
29. Vasiliev Ilie Vasilieva Irina, Vasilieva Maria. (2024). Role of Acute Vascular Distress Syndrome inThe Development ofMultisystem Inflammatory Syndrome In Sars-Cov-2 And Modern Views On The Research And Treatment Of Critical Coronavirus. Special journal of the Medical Academy and other Life Sciences, 2:3:1-37. DOI: https://doi.org/10.58676/sjmas.v2i4.70
https://www.researchgate.net/publication/380835765_Role_Of_Acute_Vascular_Distress_Syndrome_In_The_Development_Of_Multisystem_Inflammatory_Syndrome_In_Sars-Cov-2_And_Modern_Views_On_The_Research_And_Treatment_Of_Critical_Coronavirus
30. Vasilieva Irina, Vasiliev Ilie. (2023). Rolul diagnostic al galectin-3 în afecțiuni cardiace. Conferința "Cercetarea în biomedicină și sănătate: calitate, excelență și performanță" Chișinău, Moldova, 18-20 octombrie 2023.The diagnostic role of galectin-3 in cardiac diseases. Conference "Research in biomedicine and health: quality, excellence and performance" Chisinau, Moldova, October 18-20, 2023.
https://ibn.idsi.md/vizualizare_articol/19336935.
https://www.researchgate.net/publication/380880573_Vasilieva_Irina_Vasiliev_Ilie_Diagnostical_role_of_galectin-3_in_heart_disease_Biomedical_and_health_research_quality_excellence_and_performance_2023_httpsibnidsimdvizualizare_articol193369_httpsibnid
31. Role of Neurofilament light chain in neurological disease.Scientific advisor: Visnevschi Anatolie, MD, PhD, Professor, Department of Laboratory Medicine, Nicolae Testemitanu State University of Medicine and Pharmacy, Chisinau, Republic of Moldova. The 10th International Medical Congress For Students andYoung Doctors. Abstract Book. Chișinău. Republic of Moldova,198.
https://ibn.idsi.md/sites/default/files/imag_file/198_13.pdf
32. Ilie Vasiliev, Maria Vasilieva, Irina Vasilieva. (2024). Neuro SARS-CoV-2(COVID-19). Book. LAP. Germany (Berlin).
https://www.researchgate.net/publication/381201875_Neuro_SARS-CoV-2_COVID-19_Ilie_Vasiliev_Maria_Vasilieva_Irina_Vasilieva_Book_Germany_httpswwwhugendubeldedetaschenbuchilie_vasiliev_maria_vasilieva_irina_vasilieva-neuro_sars_cov_2_covid_19_-48341418-
33. Ilie Vasiliev. Maria Vasilieva. Irina Vasilieva. (2023). Molecular pathological biology of Coronavirus infection SARS-CoV-2. Book. LAP. United Kingdom. London.
https://www.researchgate.net/publication/376886306_Ilie_Vasiliev_Maria_Vasilieva_Irina_Vasilieva_Molecular_pathological_biology_of_Coronavirus_infection_SARS-

CoV-2/citations
https://www.researchgate.net/publication/383231717_EuroBuch_Vasiliev_Ilie_Vasilieva_Maria_Vasilieva_Irina_Molekularpathologische_Biologie_der_Coronavirus-Infektion_SARS-CoV-2
34. D' Ambra Mirta. Ilie Vasiliev. Valeri Shevchenko. (2019). When the Trauma is Serious. American Journal of Biomedical Science & Research, 2:6:241 -244. https://paper.researchbib.com/view/paper/213167
35. Vasiliev I, Vasilieva M, Vasilieva I, Ilia C, Tatiana G, et al. (2015) The Extracorporeal Bio-Xeno Perfusion (myelo-timo-spleen) in Multi-organ Supportive Therapy (MOST) as a Modulator of Energy, for Immuno Correction Compensatory Anti-Inflammatory Response Syndromes, and Persistent Inflammation, Immuno suppression, Catabolism, and Multi-organ Dysfunction. J Anesth Pati Care 1(1): 104. doi:10.15744/24565490.1.104
https://pdfs.semanticscholar.org/c51d/58cf0c16534f276ab3d751eb0cd8ea863856.pdf
https://www.annexpublishers.com/articles/JAPC/1104-The-Extracorporeal-Bio-Xeno-Perfusion-myelo-timo-spleen-in-Multi-organ-Supportive-Therapy.pdf
36. Vasiliev I., Nistor V., Bogdan V., et al. (1993). The extracorporeal bio-xeno perfusion as a complex therapeutic component of the treatment of septicemia on the background of associated injury. Courr Med., 2:56-57
https://www.researchgate.net/publication/348369818_The_extracorporeal_bio_xeno_perfusion_as_a_complex_therapeutic_component_of_the_treatment_of_septicemia_on_the_background_of_associated_injury
37. Diug, V., & Vasiliev, I. (2018). Definitive haemostasis in hematoma postpartum massive hemorrhage. In Sum of Summaries. Iasi: National Conference (p. 44).
https://www.researchgate.net/publication/364669546_Romania_Definitive_hemostasis_in_postpartum_hematoma_with_hemorrhage_massive_Clinical_case_Valentina_Diug_Ilie_Vasiliev_Iasi_April_19-21_2018_pg_4447 .
38. Vasiliev I, Creciun A. Cases of anaphylactic shock and tacticsemergency therapy. Health Care 1986; 5:51-3.
https://www.researchgate.net/publication/353018042_Vasiliev_I_Creciun_A_1986_Cases_of_anaphylactic_shock_and_tactics_emergy_therapy_Cour_Med_1986/citations
39. Vasilieva Irina, & Vasiliev I. (2025). Etiology of cancer: increased formation of blood vessels among cells. Special Journal of the Medical Academy and Other Life Sciences., 3(7).
https://doi.org/10.58676/sjmas.v3i7.138https://www.researchgate.net/publication/398394549_Bad_Treatment_of_Each_Other_is_the_New_Pandemic
40. Vasilieva I., Vasilieva M., & Vasiliev I. (2025). Bad Treatment of Each Other is the New Pandemic. Special Journal of the Medical Academy and Other Life Sciences., 3(8).
https://doi.org/10.58676/sjmas.v3i8.148https://www.researchgate.net/publication/398394549_Bad_Treatment_of_Each_Other_is_the_New_Pandemic
41. Vasilieva Maria. (2018). Biomedical Quality Changes in Tears. Vinnitsa. (Ukraine): XIVMaterials of the International Student Conference, 34-37
42. Vasiliev I., Vasilieva Maria, Vasilieva Irina. (2016). The Medico Legal Indications and Contraindications tothe use ECMO and ECCO2R at ALI/ARDS. United States: Project Proposed for Discussion and Study WAMS. 6-9
43. Vasiliev I. Ceban N et al. (1989). The lymphotropic therapy with lymph stimulation in complex treatment of exotoxin shock. Health Care, 2:52-53.

https://www.researchgate.net/publication/354533684_The_lymphotropic_therapy_with_lymph_stimulation_in_complex_treatment_of_exotoxin_shock
44. Vasiliev I. Malachi M. Niculita I. (1996). The extracorporeal bio-xeno perfusion (timo-spleen) for the complex treatment of systemic lupus erythematosus. Courr Med.; 2:41-3.
https://www.researchgate.net/publication/348370069_The_extracorporeal_bio-xeno_perfusion_timo-spleen_for_the_complex_treatment_of_systemic_lupus_erythematosus_Courr_Med_1996_241-3
45. Vasilieva Maria, Răcila R., Pleșca I., Vasilieva Irina, Vataman A., Groppa S. (2025). Paterne EEG în prognosticul „indeterminat" al pacienților poststop cardiac. In: Revista de Ştiinţe ale Sănătăţii din Moldova,: 12: nr. 2(Anexa 1) :62. ISSN 2345-1467
https://ibn.idsi.md/ro/vizualizare_articol/234918
46. Vasilieva Maria, Groppa S. (2023). Nanotehnologie – progres în neuromodulare. In: Cercetarea în biomedicină și sănătate: calitate, excelență și performanță, Ed. 1, 18-20 octombrie 2023, Chişinău. Chișinău, Republica Moldova: 397. ISSN 2345-1476.
https://ibn.idsi.md/ro/vizualizare_articol/194517
47. Vasilieva Maria, Istrati D, Zota E., Vasilieva Irina, Groppa S. (2022). EPV-421. Hypokalemia- stroke mimic. Case report. In: European Journal of Neurology, 2022; 29, supl. : 1 :884. ISSN 1351-5101.
https://ibn.idsi.md/ro/vizualizare_articol/167305
https://www.ean.org/fileadmin/user_upload/ean/congress-2022/EAN2022AbstractBook.pdf
48. Vasilieva Maria, Gasnaș A., Bejenari I., Vasilieva Irina, Manea Diana, Groppa Stanislav. (2021). Overlap mechanisms of transient global amnesia and COVID-19 infection: review. In: Congress of the Society of Neurologists Issue of the Republic of Moldova, Ed. 7, 16-18 septembrie 2021, Chişinău. Chişinău: Revista Curier Medical, ; Ediția 7: 64: 50. ISSN 2537-6381 (Online).
https://ibn.idsi.md/ro/vizualizare_articol/139167
49. Ning Li, Ben A. Flanagan, and Suzanne Edmands. (2024). The role of mitochondria in sex-and age-specific gene expression in a species without sex chromosomes. The Proceedings of the National Academy of Sciences USA(PNAS). https://www.pnas.org/doi/10.1073/pnas.2321267121
https://www.pnas.org/doi/epub/10.1073/pnas.2321267121
50. Vasilieva I, Vasilieva M, & Vasiliev I. (2026). Correlation between gender and eye refractive error Problems and prospects. Special Journal of the Medical Academy and Other Life Sciences., 4(1). https://doi.org/10.58676/sjmas.v4i1.152
https://sjmas.com/index.php/sjmas/article/view/152/143