

SEZNAM ŠTUDIJSKE LITERATURE – BIOMEDICINA

2023/2024

ŠTUDIJSKA SMER: BIOKEMIJA IN MOLEKULARNA BIOLOGIJA

1. LETNIK

IZBIRNI PREDMETI

IZBRANA POGLAVJA IZ BIOKEMIJE IN MOLEKULARNE BIOLOGIJE

1. Voet D, Voet JG. Biochemistry. Fourth Edition International Adaptation ed. Singapore: John Wiley & Sons Singapore; 2021.
2. Pevsner J. Bioinformatics and Functional Genomics. 3rd ed. Hoboken NJ: Wiley-Blackwell; 2015.
3. pregledni in eksperimentalni revijski članki z novostmi s področja uravnavanja biokemijskih procesov
4. pregledni revijski članki iz področja strukturne in sintezne biologije/ Review articles from topics
5. pregledni revijski članki z novostmi s področja genomike in nacionalnih genomskih projektov ter etike v genomiki

2. LETNIK

IZBIRNI PREDMETI

ANALIZA GENOMA IN TRANSKRIPTOMA

Najnovejši pregledni in raziskovalni članki s področja /The latest reviews and research articles from the field

BIOKEMIJA BIOLOŠKIH MEMBRAN

Najnovejši znanstveni in pregledni članki iz znanstvenih revij.

BIOLOŠKA ZDRAVILA NA OSNOVI MONOKLONSKIH PROTITELES

1. Abbas AK, Lichtman AH, Pillai S, Baker DL, Baker A. Cellular and molecular immunology. Ninth edition ed. Philadelphia, PA: Elsevier Philadelphia, PA; 2018.
2. Steinitz M. Human Monoclonal Antibodies : Methods and Protocols. Second ed. New York: Humana Press; 2018.
3. An Z. Therapeutic Monoclonal Antibodies : From Bench to Clinic. Hoboken N.J: John Wiley & Sons; 2009.
4. Čurin-Šerbec V, Černilec M, Pretnar-Hartman K, Kosmač M, Smrekar B, Vranac T, idr. Monoklonska protitelesa: od priprave do uporabe: učbenik s praktičnimi primeri za podiplomske študente. Ljubljana: Zavod Republike Slovenije za transfuzijsko medicino; 2017. 35 str.
5. Najnovejši pregledni in raziskovalni članki s področja, ostala dostopna literatura./The latest reviews and research articles from the field, existing literature.

BIOLOŠKE IMPLIKACIJE NAPAČNEGA ZVIJANJA IN AGREGACIJE PROTEINOV

1. Sigurdsson EM, SpringerLink. Amyloid Proteins: Methods and Protocols. Totowa, NJ: Humana Press Inc. Totowa, NJ; 2005.
2. Ramirez-Alvarado M Kelly JW Dobson CM. Protein Misfolding Diseases : Current and Emerging Principles and Therapies. Hoboken: Wiley A John Wiley & Sons; 2010.
3. Küffner AM, Linsenmeier M, Grigolato F, Prodan M, Zuccarini R, Capasso Palmiero U, Faltova L, Arosio P. Sequestration within biomolecular condensates inhibits A β -42 amyloid formation. Chem Sci. 2021 Feb 18;12(12):4373-4382. doi: 10.1039/d0sc04395h. PMID: 34163700; PMCID: PMC8179469.
4. Lyon AS, Peeples WB, Rosen MK. A framework for understanding the functions of biomolecular condensates across scales. Nat Rev Mol Cell Biol. 2021 Mar;22(3):215-235. doi: 10.1038/s41580-020-00303-z. Epub 2020 Nov 9. PMID: 33169001; PMCID: PMC8574987.
5. Sherman MY, Goldberg AL. Cellular defenses against unfolded proteins: a cell biologist thinks about neurodegenerative diseases. Neuron. 2001 Jan;29(1):15-32. doi: 10.1016/s0896-6273(01)00177-5. PMID: 11182078.
6. Zerovnik E. Amyloid-fibril formation. Proposed mechanisms and relevance to conformational disease. Eur J Biochem. 2002 Jul;269(14):3362-71. doi: 10.1046/j.1432-1033.2002.03024.x. PMID: 12135474.
7. Lashuel HA, Lansbury PT Jr. Are amyloid diseases caused by protein aggregates that mimic bacterial pore-forming toxins? Q Rev Biophys. 2006 May;39(2):167-201. doi: 10.1017/S0033583506004422. Epub 2006 Sep 18. PMID: 16978447.
8. Rubinsztein DC. The roles of intracellular protein-degradation pathways in neurodegeneration. Nature. 2006 Oct 19;443(7113):780-6. doi: 10.1038/nature05291. PMID: 17051204.
9. Haass C, Selkoe DJ. Soluble protein oligomers in neurodegeneration: lessons from the Alzheimer's amyloid beta-peptide. Nat Rev Mol Cell Biol. 2007 Feb;8(2):101-12. doi: 10.1038/nrm2101. PMID: 17245412.

10. Zerovnik E. Protein conformational pathology in Alzheimer's and other neurodegenerative diseases; new targets for therapy. *Curr Alzheimer Res.* 2010 Feb;7(1):74-83. doi: 10.2174/156720510790274437. PMID: 20205673.
11. Polajnar M, Zerovnik E. Impaired autophagy: a link between neurodegenerative and neuropsychiatric diseases. *J Cell Mol Med.* 2014 Sep;18(9):1705-11. doi: 10.1111/jcmm.12349. Epub 2014 Aug 19. PMID: 25139375; PMCID: PMC4196646.
12. Polajnar M, Zerovnik E. Impaired autophagy: a link between neurodegenerative diseases and progressive myoclonus epilepsies. *Trends Mol Med.* 2011 Jun;17(6):293-300. doi: 10.1016/j.molmed.2011.02.005. Epub 2011 Apr 7. PMID: 21482188.

BIOMOLEKULARNA TERMODINAMIKA

1. van Holde KE, Curtis Johnson W, Shing Ho W. *Principles of physical biochemistry.* New Jersey: Prentice Hall New Jersey; 1998.
2. Pain RH. *Mechanisms of Protein Folding.* 2nd ed. Oxford: Oxford University Press; 2000.
3. Cooper A. *Biophysical chemistry.* Let. 16. Cambridge: Royal Society of Chemistry; 2004. VII, 184.
4. Nelson PC Goodsell DS Chen K Bromberg S. *Biological Physics : Energy Information Life.* Student ed. Philadelphia PA: Chiliaogon Science; 2020.
5. Najnovejši pregledni članki s področja /The latest review articles from the field.

CELIČNA FIZIOLOGIJA

1. Sperelakis N. *Cell physiology sourcebook a molecular approach.* 3rd ed. San Diego, Calif.: Academic Press San Diego, Calif.; 2001.
2. Hille B. *Ion Channels of Excitable Membranes.* 3rd ed. Sunderland Mass: Sinauer; 2001.
3. Recent review papers. / Recentni pregledni članki.

DEDNE BOLEZNI KOŽE – MOLEKULARNE TEHNIKE DIAGNOSTIKE IN PROUČEVANJA BOLEZNI

Najnovejši pregledni in raziskovalni članki s področja molekularne dermatologije / The latest review and research articles from the field of molecular dermatology

EKSPERIMENTALNA EPIGENETIKA

1. Kouter K, Videtič Paska A. Med geni in okoljem – epigenetika samomorilnosti. In: Roškar S, Videtič Paska A, editors. *Samomor v Sloveniji in svetu: opredelitev, raziskovanje, preprečevanje in obravnava:* Nacionalni inštitut za javno zdravje; 2021. p. 131-48.
2. Najnovejši pregledni in raziskovalni članki s področja /The latest review and research articles from the field

EKSPERIMENTALNE METODE V FARMAKOGENOMIKI

1. Kanneganti TD. Intracellular innate immune receptors: Life inside the cell. *Immunol Rev.* 2020 Sep;297(1):5-12. doi: 10.1111/imr.12912. PMID: 32856334; PMCID: PMC7592123.
2. Najnovejši pregledni in raziskovalni članki s področja /The latest review and research articles from the field.

EKSPERIMENTALNE METODE V RAZISKAVAH NARAVNE IMUNOSTI

1. Jain KK. *Textbook of Personalized Medicine*: Springer; 2021.
2. Federico S, Pozzetti L, Papa A, Carullo G, Gemma S, Butini S, Campiani G, Relitti N. Modulation of the Innate Immune Response by Targeting Toll-like Receptors: A Perspective on Their Agonists and Antagonists. *J Med Chem.* 2020 Nov 25;63(22):13466-13513. doi: 10.1021/acs.jmedchem.0c01049. Epub 2020 Sep 15. PMID: 32845153.

EKSPERIMENTALNE METODE V RAZISKAVAH STRUKTURE NUKLEINSKIH KISLIN

1. Bloomfield VA, Crothers DM, Tinoco I. *Nucleic acids : structures, properties, and functions.* Sausalito, Calif.: University Science Books Sausalito, Calif.; 2000.
2. Zhang L-H. *Medicinal Chemistry of Nucleic Acids.* Hoboken: John Wiley & Sons; 2011.
3. Najnovejši pregledni in raziskovalni članki s področja /The latest review and research articles from the field.

EKSPERIMENTALNE METODE ZA PROUČEVANJE BIOKEMIJE STEROIDNIH HORMONOV

Najnovejši pregledni članki s področja. / The latest review articles from the field.

EKSPERIMENTALNI PRISTOPI V MOLEKULARNI EPIDEMIOLOGIJI

1. Costa LG, Eaton DL. *Gene-environment interactions : fundamentals of ecogenetics.* Hoboken, N.J.: Wiley-Liss Hoboken, N.J.; 2006.
2. Smith TJ Kriebel D. *A Biologic Approach to Environmental Assessment and Epidemiology.* New York: Oxford University Press; 2010.
3. Najnovejši pregledni članki s področja. The latest review articles from the field.

ENCIMSKA KATALIZA

1. Segel IH. *Enzyme kinetics : behavior and analysis of rapid equilibrium and steady state enzyme systems.* Wiley Classics Library ed. New York: Wiley New York; 1993.

2. Fersht A. Structure and Mechanism in Protein Science : A Guide to Enzyme Catalysis and Protein Folding. 4. Printing ed. New York: W.H. Freeman; 2003.
3. Izbrani članki / Selected papers
4. Tekoči protokoli za laboratorijsko delo /Current protocols used in laboratory

EVOLUCIJSKA GENOMIKA

1. Anisimova M. Evolutionary genomics : statistical and computational methods. Second edition ed. New York, NY: Humana Press New York, NY; 2019.
2. Saitou N. Introduction to Evolutionary Genomics. Second ed. Cham Switzerland: Springer; 2018.
3. Brown TA. Genomes 4. 4th ed. New York NY: Garland Science; 2017.
4. Caetano-Anollés Gustavo. Evolutionary Genomics and Systems Biology. Hoboken N.J: Wiley-Blackwell : John Wiley & Sons; 2010.
5. Pagel MD Pomiankowski A. Evolutionary Genomics and Proteomics. Sunderland Mass: Sinauer Associates; 2008.
6. Lynch M. The Origins of Genome Architecture. Sunderland (Mass.): Sinauer Associates; 2007.
7. Najnovejši pregledni članki iz področja /The latest review articles in the field.

FARMAKOGENETIKA IN OSEBNA MEDICINA

1. Jain KK. Textbook of Personalized Medicine: Springer; 2021.
2. Lam JT Gutierrez MA Shah S. Pharmacogenomics : A Primer for Clinicians. New York: McGraw-Hill; 2021.
3. Najnovejši pregledni članki s področja /The latest review articles from the field.

GLIKOZILACIJA PROTEINOV

1. Essentials of glycobiology. 2nd ed. Cold Spring Harbor: Cold Spring Harbor Laboratory Press Cold Spring Harbor; 2009.
2. Packer N Karlsson NG. Glycomics : Methods and Protocols. New York: Humana Press; 2009.
3. Najnovejši pregledni in raziskovalni članki s področja /The latest methodology and research articles from the field.

INTERAKTOMIKA RNA IN PROTEINOV

1. Bosch JA, Chen CL, Perrimon N. Proximity-dependent labeling methods for proteomic profiling in living cells: An update. Wiley Interdiscip Rev Dev Biol. 2021 Jan;10(1):e392. doi: 10.1002/wdev.392. Epub 2020 Sep 10. PMID: 32909689; PMCID: PMC8142282.

2. Pichlerova K, Hanes J. Technologies for the identification and validation of protein-protein interactions. *Gen Physiol Biophys*. 2021 Nov;40(6):495-522. doi: 10.4149/gpb_2021035. PMID: 34897023.
3. Gräwe C, Stelloo S, van Hout FAH, Vermeulen M. RNA-Centric Methods: Toward the Interactome of Specific RNA Transcripts. *Trends Biotechnol*. 2021 Sep;39(9):890-900. doi: 10.1016/j.tibtech.2020.11.011. Epub 2020 Dec 19. PMID: 33353763.
4. Majumder M, Palanisamy V. Compendium of Methods to Uncover RNA-Protein Interactions In Vivo. *Methods Protoc*. 2021 Mar 19;4(1):22. doi: 10.3390/mps4010022. PMID: 33808611; PMCID: PMC8006020.
5. Schönberger B, Schaal C, Schäfer R, Voß B. RNA interactomics: recent advances and remaining challenges. *F1000Res*. 2018 Nov 20;7:F1000 Faculty Rev-1824. doi: 10.12688/f1000research.16146.1. PMID: 30519453; PMCID: PMC6248267.

IZBRANI PRIMERI IZ MEDICINSKE GENETIKE

1. Buckingham L. *Molecular diagnostics : fundamentals, methods, and clinical applications*. 2nd ed. Philadelphia: F.A. Davis Co. Philadelphia; 2012.
2. *Principles of molecular medicine*. 2nd ed. Totowa: Humana Press; 2006. XXV, 1268.

JEDRSKA MAGNETNA REZONANCA PRI RAZISKAVAH BIOLOŠKIH MAKROMOLEKUL

1. Bertini I, McGreevy KS, Parigi G, ebrary I. *NMR of biomolecules towards mechanistic systems biology*. Weinheim, Chichester: Wiley-VCH : John Wiley [distributor] Weinheim, Chichester; 2012.
2. Lian L-Y Roberts G. *Protein Nmr Spectroscopy : Practical Techniques and Applications*. Chichester: John Wiley & Sons; 2011.
3. Cavanagh J. *Protein Nmr Spectroscopy : Principles and Practice*. 2nd ed. Amsterdam: Academic Press; 2007.

MAKROMOLEKULARNE INTERAKCIJE

1. Tamm LK. *Protein lipid interactions from membrane domains to cellular networks*. Weinheim: Wiley-VCH-Verl Weinheim; 2005.
2. de Mol NJ Fischer MJE. *Surface Plasmon Resonance : Methods and Protocols*. New York etc: Springer; 2010.
3. Najnovejši pregledni in raziskovalni članki s področja /The latest review and research articles from the field.

METODE IDENTIFIKACIJE PROTEINSKIH IN GENETSKIH BIOOZNAČEVALCEV TUMORJEV

Sodobna znanstveno-raziskovalna literatura (najnovejši raziskovalni in pregledni članki iz področja). / Current scientific and research literature (latest original and review papers from the field).

Predlagana osnovna literatura / Basic literature suggested:

1. Hanahan D, Weinberg RA. Hallmarks of cancer: the next generation. Cell. 2011 Mar 4;144(5):646-74. doi: 10.1016/j.cell.2011.02.013. PMID: 21376230.
2. Hanahan D, Weinberg RA. The hallmarks of cancer. Cell. 2000 Jan 7;100(1):57-70. doi: 10.1016/s0092-8674(00)81683-9. PMID: 10647931.

METODOLOŠKI PRISTOPI SEKVENCIONIRANJA NOVE GENERACIJE IN METILACIJA DNA

Najnovejša znanstvena literatura s področja (pregledni in raziskovalni članki) /The latest scientific literature from the field (review and research articles).

MODELIRANJE STRUKTURE PROTEINOV

1. Kihara D. Protein Structure Prediction. New York, NY: Springer US : Imprint : Humana New York, NY; 2020.
2. Najnovejši pregledni in raziskovalni članki. / Current review and research papers.

MOLEKULARNA ANALIZA IN SAMOMORILNO VEDENJE

1. Samomor v Sloveniji in svetu: opredelitev, raziskovanje, preprečevanje in obravnava. Ljubljana: Nacionalni inštitut za javno zdravje; 2021. Available from: https://www.nijz.si/sites/www.nijz.si/files/publikacije-datoteke/samomor_v_sloveniji_elektronska_izdaja_25_10_21.pdf
2. Videtič Paska A, Kouter K. Genetski dejavniki samomorilnosti. V: Samomor v Sloveniji in svetu: opredelitev, raziskovanje, preprečevanje in obravnava [Internet]. Nacionalni inštitut za javno zdravje; 2021. str. 111–29. Dostopno na: https://www.nijz.si/sites/www.nijz.si/files/publikacije-datoteke/samomor_v_sloveniji_elektronska_izdaja_25_10_21.pdf
3. Najnovejši pregledni in raziskovalni članki s področja /The latest review and research articles from the field.

MOLEKULARNA GENETIKA HORMONSKIH IN PRESNOVNIH BOLEZNI

1. Strachan T, Read AP. Human molecular genetics. 3rd ed. London; New York: Garland Science; 2004. XXV, 674 p.
2. Najnovejši pregledni in raziskovalni članki s področja /The latest review and research articles from the field.

MOLEKULARNI MEHANIZMI NASTANKA IN RAZVOJA RAKA

1. Pecorino L. Molecular biology of cancer : mechanisms, targets, and therapeutics. 5th ed. Oxford: United Kingdom : Oxford university press Oxford; 2021.
2. Weinberg RA. The Biology of Cancer. Second ed. New York: Garland Science Taylor & Francis Group; 2014.

MONOKLONSKA PROTITELESA – PREGLED PODROČJA IN NJIHOVA UPORABA V RAZISKAVAH, DIAGNOSTIKI IN TERAPIJI

1. Abbas AK, Lichtman AH, Pillai S, Baker DL, Baker A. Cellular and molecular immunology. Ninth edition ed. Philadelphia, PA: Elsevier Philadelphia, PA; 2018.
2. Steinitz M. Human Monoclonal Antibodies : Methods and Protocols. Second ed. New York NY: Humana Press : Springer; 2018.
3. An Z. Therapeutic Monoclonal Antibodies : From Bench to Clinic. Hoboken N.J: John Wiley & Sons; 2009.
4. Čurin-Šerbec V, Černilec M, Pretnar-Hartman K, Kosmač M, Smrekar B, Vranac T, idr. Monoklonska protitelesa: od priprave do uporabe: učbenik s praktičnimi primeri za podiplomske študente. Ljubljana: Zavod Republike Slovenije za transfuzijsko medicino; 2017. 35 str.

NAČRTOVANJE IN EKSPERIMENTALNI PRISTOP K RAZISKOVANJU ONKOLOŠKIH BOLEZNI

1. Trent RJ. Molecular medicine: genomics to personalized healthcare. 4th ed. Amsterdam [etc.]: Elsevier; 2012. IX, 336 p.
2. Maia RT Campos Magnólia de Araújo. Genetic Variation. London: IntechOpen; 2021.
3. Najnovejši pregledni in raziskovalni članki s področja /The latest review and research articles from the field.

NAPREDNA MOLEKULSKA GENETIKA

Osnovno razumevanje / Basic understanding:

1. Krebs JE, Lewin B, Kilpatrick ST, Goldstein ES. Lewin's genes XII. 12th ed. Burlington, Mass.: Jones & Bartlett Learning Burlington, Mass.; 2017.

Glavni vir / The main source:

Novejši raziskovalni in pregledni članki s posameznih področij / Recent research and review articles in particular fields.

STEROIDNI HORMONI IN OD HORMONOV ODVISNE BOLEZNI

Najnoveši pregledni članki s področja. / The latest review articles from the field.

STRUKTURA PROTEINOV

1. Rupp B. Biomolecular crystallography : principles, practice, and application to structural biology. New York: Garland Science New York; 2010.
2. Bergfors TM. Protein Crystallization. 2nd ed. La Jolla: International University Line; 2009.
3. Branden C-I, Tooze J. Introduction to protein structure. 2nd ed. New York: Garland; 1999. XIV, 410.
4. Rhodes G. Crystallography Made Crystal Clear : A Guide for Users of Macromolecular Models. 3rd ed. Amsterdam: Elsevier/Academic Press; 2006.
5. Najnovejši pregledni in raziskovalni članki s področja /The latest methodology and research articles from the field.

URAVNAVANJE IZRAŽANJA GENOV – EKSPERIMENTALNI PRISTOPI

Najnovejši pregledni in raziskovalni članki s področja /The latest reviews and research articles from the field.

UVOD V PODATKOVNO RUDARJENJE

1. Witten IH, Frank E, Hall MA, Pal CJ. Data mining : practical machine learning tools and techniques. Fourth edition ed. Boston, MA: Elsevier Boston, MA; 2016.
2. Video tečaji za programski paket Orange na YouTube-u (<http://youtube.com/orangedatamining>).
3. Zapiski predavateljev (B. Zupan, J. Demšar).

ZUNAJCELIČNI VEZIKLI – VLOGA V PATOGENEZI IN KLINIČNI POTENCIAL

1. Théry C. et al... Lenassi M..., Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. J Extracell Vesicles. 2018 Nov 23;7(1):1535750. doi: 10.1080/20013078.2018.1535750. PMID: 30637094; PMCID: PMC6322352.
2. Holcar M, Kandušer M, Lenassi M. Blood Nanoparticles - Influence on Extracellular Vesicle Isolation and Characterization. Front Pharmacol. 2021 Nov 10;12:773844. doi: 10.3389/fphar.2021.773844. PMID: 34867406; PMCID: PMC8635996.
3. Holcar M, Ferdin J, Sitar S, Tušek-Žnidarič M, Dolžan V, Plemenitaš A, Žagar E, Lenassi M. Enrichment of plasma extracellular vesicles for reliable quantification of their size and concentration for biomarker discovery. Sci Rep. 2020 Dec 7;10(1):21346. doi: 10.1038/s41598-020-78422-y. PMID: 33288809; PMCID: PMC7721811.

4. Goričar K, Dolžan V, Lenassi M. Extracellular Vesicles: A Novel Tool Facilitating Personalized Medicine and Pharmacogenomics in Oncology. *Front Pharmacol.* 2021 Apr 30;12:671298. doi: 10.3389/fphar.2021.671298. PMID: 33995103; PMCID: PMC8120271.
5. Sedej I, Štalekar M, Tušek Žnidarič M, Goričar K, Kojc N, Kogovšek P, Dolžan V, Arnoč M, Lenassi M. Extracellular vesicle-bound DNA in urine is indicative of kidney allograft injury. *J Extracell Vesicles.* 2022 Sep;11(9):e12268. doi: 10.1002/jev2.12268. PMID: 36149031.

ZVIJANJE IN AGREGACIJA PROTEINOV

1. Pain RH. Mechanisms of protein folding. 2nd ed. Oxford: Oxford University Press Oxford; 2000.
2. Zbilut JP Scheibel T. Protein Folding-Misfolding : Some Current Concepts of Protein Chemistry. New York: Nova Science; 2007.
3. Ramirez-Alvarado M Kelly JW Dobson CM. Protein Misfolding Diseases : Current and Emerging Principles and Therapies. Hoboken N.J: Wiley; 2010.
4. Lyon AS, Peeples WB, Rosen MK. A framework for understanding the functions of biomolecular condensates across scales. *Nat Rev Mol Cell Biol.* 2021 Mar;22(3):215-235. doi: 10.1038/s41580-020-00303-z. Epub 2020 Nov 9. PMID: 33169001; PMCID: PMC8574987.
5. Žerovnik E. Viroporins vs. Other Pore-Forming Proteins: What Lessons Can We Take? *Front Chem.* 2021 Feb 18;9:626059. doi: 10.3389/fchem.2021.626059. PMID: 33681145; PMCID: PMC7930612.
6. Lashuel HA, Lansbury PT Jr. Are amyloid diseases caused by protein aggregates that mimic bacterial pore-forming toxins? *Q Rev Biophys.* 2006 May;39(2):167-201. doi: 10.1017/S0033583506004422. Epub 2006 Sep 18. PMID: 16978447.
7. Žerovnik E, Stoka V, Mirtič A, Gunčar G, Grdadolnik J, Staniforth RA, Turk D, Turk V. Mechanisms of amyloid fibril formation--focus on domain-swapping. *FEBS J.* 2011 Jul;278(13):2263-82. doi: 10.1111/j.1742-4658.2011.08149.x. Epub 2011 May 31. PMID: 21535473.
8. Anderluh G, Zerovnik E. Pore formation by human stefin B in its native and oligomeric states and the consequent amyloid induced toxicity. *Front Mol Neurosci.* 2012 Aug 2;5:85. doi: 10.3389/fnmol.2012.00085. PMID: 22876218; PMCID: PMC3410518.
9. Zerovnik E, Kopitar-Jerala N. Recent Developments in Treating Alzheimer's Disease. *Journal of Alzheimer's Disease & Parkinsonism.* 2016;06.

1. LETNIK

IZBIRNI PREDMETI

RAZISKAVE V KLINIČNI MEDICINI

1. Hanna M. How to Write Better Medical Papers. Cham: Springer International Publishing Cham; 2019.
2. Khan K. Systematic reviews to support evidence-based medicine: how to review and apply findings of healthcare research. 2nd ed. London: Hodder Annold; 2011. XIII, 201.
3. Emanuel EJ. The Oxford Textbook of Clinical Research Ethics. [Pbk. ed.] ed. Oxford: Oxford University Press; 2011.
4. Macrina FL. Scientific Integrity : Text and Cases in Responsible Conduct of Research. Fourth ed. Washington DC: ASM Press; 2014.
5. Mackridge A Rowe P. A Practical Approach to Using Statistics in Health Research : From Planning to Reporting. Hoboken NJ: Wiley; 2018.
6. Koeppen BM Stanton BA Berne RM. Berne & Levy Physiology. Seventh ed. Amsterdam: Elsevier; 2017.
7. West JB Luks A. West's Respiratory Physiology : The Essentials. Eleventh ed. Philadelphia: Wolters Kluwer; 2021.
8. Nordin M. Basic Biomechanics of the Musculoskeletal System. Lippincott Williams & Wilkins; 2021.
9. Brunton LL. Goodman and Gilman's the Pharmacological Basis of Therapeutics. 13th ed. New York: McGraw Hill Education; 2017.
10. Hall A Yates C. Immunology. Oxford: Oxford University Press; 2010.
11. Libby P Braunwald E. Braunwald's Heart Disease : A Textbook of Cardiovascular Medicine. Twelfth ed. Amsterdam: Elsevier; 2021.
12. Townsend CM Beauchamp RD Evers BM Mattox KL Sabiston DC. Sabiston Textbook of Surgery : The Biological Basis of Modern Surgical Practice. 21st ed. St. Louis: Elsevier; 2021.
13. Currently published papers (PubMed, Web of Science, Science Direct, ..)

2. LETNIK

IZBIRNI PREDMETI

ALERGOLOGIJA

1. Allergy and allergic diseases in 2 vol. Vol. 1. The scientific basis of allergy. Chichester: Wiley-Blackwell Chichester; 2008.
2. Allergy and Allergic Diseases in 2 Vol. Vol. 2. Allergic Diseases : Etiology Diagnosis and Treatment. Chichester: Wiley-Blackwell; 2008.

EHOKARDIJA

1. Galiuto L, European Association of E, European Society of C. The EAE textbook of echocardiography. Oxford [England]: Oxford University Press Oxford [England]; 2011.
2. Gorjup V Koželj Mirta Štajer Dušan et al. Ehokardiografija. Ljubljana: Slovensko medicinsko društvo; 2008.

EKSPERIMENTALNA IMUNOLOGIJA

1. Abbas AK, Lichtman AH, Pillai S. Cellular and molecular immunology. 6th ed. Philadelphia: Saunders/Elsevier Philadelphia; 2010.
2. Janeway CA. Immunobiology : The Immune System in Health and Disease. 6th ed. London: Garland : Churchill Livingstone; 2005.
3. Kotnik V, Čurin-Šerbec V, Pretnar-Hartman K, Ihan A, Jeras M, Kopitar AN, idr. Imunološki priručnik. Ljubljana: Medicinska fakulteta, Inštitut za mikrobiologijo in imunologijo, Katedra za mikrobiologijo in imunologijo; 2010. 194 str.

EKSPERIMENTALNE METODE V STOMATOLOŠKI PROTETIKI

1. Ratner BD. Biomaterials science an introduction to materials in medicine. 3rd ed. Amsterdam: Elsevier - Academic Press Amsterdam; 2012.
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1. Brunton LL, Knollmann BrC. Goodman & Gilman's The pharmacological basis of therapeutics. Fourteenth edition ed. New York: McGraw Hill New York; 2023. (last edition; selected topics)
2. Timbrell J. Introduction to Toxicology. 4th ed. CRC Press/Taylor & Francis Group; 2023. (last edition; selected topics)
3. Evropske in mednarodne smernice za preskušanje zdravil / European and International guidelines for the drug testing
4. Najnovejši pregledni in raziskovalni članki s področja /The latest review and research articles from the field.

GASTROENTEROLOŠKA KIRURGIJA

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4. Evropske in mednarodne smernice za kirurško zdravljenje bolezni prebavil / European and International guidelines for surgical treatment of gastrointestinal diseases.
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INTERVENCIJSKA RADIOLOGIJA

1. Kuhelj D, Kavčič P, Popović P. Percutaneous mechanical thrombectomy of superior mesenteric artery embolism. Radiology and oncology. 2013;47(3):239-43.
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IZBRANE RAZISKOVALNE METODE V MEDICINI ŠPORTA

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2. Shephard RJ Åstrand Per-Olof. Endurance in Sport. Cambridge U.S.A: Blackwell Science.
3. Noakes T. Lore of Running. 4th ed. Champaign IL: Human Kinetics; 2003.
4. Najnovejši pregledni in raziskovalni članki s področja /The latest review and research articles from the field.

IZBRANE TEME V OROMAKSILOFACIALNEM PODROČJU

Revijalni članki in druga učna gradiva s tega področja.
Journal papers and other literature from this field.

KARDIOVASKULARNA DINAMIKA

1. Noordergraaf A: Cardiovascular System Dynamics. Academic Press, Philadelphia 1979.
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KLINIČNA PREHRANA

1. Basics in clinical nutrition. 5th ed. Prague: Galén; 2019. XXXIV, 676 p.
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KLINIČNO RAZISKOVANJE OBRAZA IN USTNE VOTLINE

Tematski raziskovalni članki (PUBMED).
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3. Od nastanka gamet do rojstva: oploditev z biomedicinsko pomočjo: teoretični in slikovni prikaz nastanka gamet, zgradbe gamet in tehnik oploditve z biomedicinsko pomočjo: (izkušnje na Ginekološki kliniki v Ljubljani). Radovljica: Didakta; 2002. 255 str.

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2. Aktualni učbeniki s področja molekularne farmakologije/Actual textbook on molecular pharmacology

3. Najnovejši pregledni in raziskovalni članki s področja /The latest review and research articles from the field.

NAPREDNO ZDRAVLJENJE SRČNEGA POPUŠČANJA

1. Current papers (Pubmed).
2. ISHLT consensus statements on heart transplantation and mechanical circulatory support (www.isHLT.org).

NOVE METODE V ABDOMINALNI KIRURGIJI IN PRESADITVI ORGANOV

1. Busuttill RW, Klintmalm GB. Transplantation of the liver. Third edition ed. Philadelphia, PA: Elsevier Saunders Philadelphia, PA; 2015.
2. Schein M. Rogers P. N. & Assalia A. (2009). Schein's common sense emergency abdominal surgery : an unconventional book for trainees and thinking surgeons (3rd ed.). Springer.
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4. Current papers (PUBMED),

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1. Perinatologia Slovenica II: slovenski perinatalni rezultati za obdobje 2002-11. Ljubljana: Združenje za perinatalno medicino SZD; Ginekološka klinika, UKC; 2013. 181 p.
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4. Pregledni raziskovalni in strokovni članki s področja porodništva in ginekologije, tekoča periodika, učna gradiva./Review research and professional papers in the field of obstetrics and gynecology; contemporary scientific publications, specifically for this course prepared study material, hand-outs.

PERIOPERATIVNA OBRAVNAVA BOLNIKA

1. Murphy MF, Goodnough LT. The scientific basis for patient blood management. Transfus Clin Biol. 2015 Aug;22(3):90-6. doi: 10.1016/j.traccli.2015.04.001. Epub 2015 May 8. PMID: 25959997.
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Articles PUBMED: Patient Blood Management and Early recovery after surgery.

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1. Tul Na, Mujezinović F, Meglič L, Verdenik I. Ultrazvočne preiskave v ginekologiji in perinatologiji : s poglavji o magnetno-resonančni diagnostiki, genetskih testih in svetovanju. Ljubljana: Združenje za perinatalno medicino SZD Ljubljana; 2017.
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3. Current papers (PUBMED),

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PRIPOROČILA O IZVAJANJU HITRIH TESTOV OB BOLNIKU

1. Osredkar J, Marc J. Laboratorijska medicina I.: učbenik za študente medicine, farmacije in laboratorijske biomedicine. Ljubljana: Fakulteta za farmacijo; 2012. 174 p.
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PRIROJENE SRČNE NAPAKE

1. Gatzoulis MA, Webb GD, Daubeney PEF. Diagnosis and management of adult congenital heart disease. 2nd ed: Bailliere Tindall; 2011.

REGENERATIVNA ORTOPEDIJA

1. Malanga GAMD. Regenerative Treatments in Sports and Orthopedic Medicine: Springer Publishing Company; 2017.
2. Aktualna literatura / Current literature (PUBMED, Web of Science, Scopus).

SIMULACIJA PATOFIZIOLOŠKIH IN FIZIOLOŠKIH STANJ S POMOČJO ELEKTRONKEGA ANALOGNEGA VEZJA

1. Učbeniki fiziologije/ physiology
2. Program Electronic workbench/ Electronic workbench program
3. Članki o simulaciji patofizioloških in fizioloških pojav s pomočjo elektronskih analognih vezij/ papers with examples of electronic analog circuitry for physiological studies

SODOBNA MULTIDISCIPLINARNA OBRAVNAVA BOLNIC Z GINEKOLOŠKIM RAKOM IN RAKOM V NOSEČNOSTI

1. Arko D, Takač I, Gorišek B, Rakar S. Ginekološka onkologija. 1. izd ed. Maribor: Univerzitetna založba Univerze Maribor; 2020.
2. Takač I, Geršak K. Ginekologija in perinatologija. 1. izd. ed. Maribor: Medicinska fakulteta; 2016. XLII, 714 p.
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4. [INCIP Textbook of Cancer in pregnancy: Publications | ESGO eAcademy by European Society of Gynaecological Oncology \(ESGO\)](#)
5. [ESGO Textbook of Gyneacological Oncology: Textbook of Gynaecological Oncology - ESGO 2021 Congress | ESGO 2021 Congress](#)
6. Aktualni raziskovalni in pregledni članki/Current research and review articles.

SRČNO-ŽILNA REHABILITACIJA

1. Fras Z, Jug B. ABC preventivne kardiologije : zbornik prispevkov podiplomskega tečaja, Ljubljana, marec 2015. Ljubljana: Združenje kardiologov Slovenije - Slovenska hiša srca Ljubljana; 2015.
2. JUG, Borut. Rehabilitacija srčnih bolnikov. 55. Tavčarjevi dnevi. Ljubljana: Katedra za interno medicino; 2013; 209-216.
3. Keber, Irena, Cevc, Matija; Gužič Salobir Barbara, Jug, Borut, Fras, Zlatko, Vodopivec Jamšek V. Rehabilitacija in sekundarna preventiva po infarktu. Nacionalna klinična smernica. Posodobljena izdaja. 2009.

ŠTUDIJ VPLIVA UČINKOVIN NA MIKROCIRKULACIJO PRI ČLOVEKU

1. Boron WF, Boulpaep EL. Medical physiology: a cellular and molecular approach. 2nd , updated ed. Philadelphia: Saunders, Elsevier; 2012. XII, 1337 p.
2. Najnovejši pregledni in raziskovalni članki s področja /The latest review and research articles from the field.

TRIDIMENZIONALNA DIAGNOSTIKA V ČELJUSTNI IN ZOBNI ORTOPEDIJI

1. Vogel AB, Kilic F, Schmidt F, Rübél S, Lapatki BG. Optical 3D scans for orthodontic diagnostics performed on full-arch impressions. Completeness of surface structure representation. J Orofac Orthop. 2015 Nov;76(6):493-507. doi: 10.1007/s00056-015-0309-1. PMID: 26250455.
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4. Proffit WR White RP Sarver DM. Contemporary Treatment of Dentofacial Deformity. St. Louis Mo: Mosby; 2003.
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1. Cardozo L, Staskin D. Textbook of female urology and urogynaecology. 2nd ed. Abingdon, Oxon, Boca Raton, FL: Informa Healthcare ; Taylor & Francis [distributor] Abingdon, Oxon, Boca Raton, FL; 2006.
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USTNE BOLEZNI IN PARADONTOLOGIJA

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4. Current papers (PUBMED).

UTIŠANJE SPECIFIČNIH GENOV S POMOČJO METODE SIRNA

1. Temeljni učbeniki molekularne biologije/ Textbooks of molecular biology
2. Laboratorijski protokoli/ Laboratory work manuals
3. Pregledni članki s področja raziskovalnega projekta/ Review articles from research field

ZOBNE BOLEZNI

1. Bjørndal L, Kirkevang L-L, Whitworth JM. Textbook of endodontology. 3rd edition ed. Hoboken (New Jersey): Wiley-Blackwell Hoboken (New Jersey); 2018.
2. Fejerskov, Ole, and Bente Nyvad, eds. Dental Caries : The Disease and Its Clinical Management. Fourth edition. Hoboken, NJ: Wiley-Blackwell, 2024. Print.
3. Basrani B. Endodontic Irrigation : Chemical Disinfection of the Root Canal System. Cham: Springer; 2015.
4. Jan J. Zobni karies - osnove sodobnega diagnosticiranja in zdravljenja. Ljubljana: Medicinska fakulteta; 2014. 62 p.
5. Current papers (PUBMED)

1. LETNIK

IZBIRNI PREDMETI

MEDICINSKA CELIČNA BIOLOGIJA

Modul 1: Temelji medicinske celične biologije/ Module 1: Fundamentals of medical cell biology

1. Alberts B. Molecular biology of the cell. 6th ed. New York: Garland Science, Taylor and Francis Group; 2015. XXXIV, 1342, 88 p.
2. Lodish H Berk A Kaiser CA Krieger M. Molecular Cell Biology. 8th ed. Macmillan Education; 2016.

Modul 2: Celična biologija v humani reprodukciji / Module 2: Reproductive biology in vivo and in vitro

1. Johnson MH. Essential reproduction. ed. Hoboken, NJ: Wiley Blackwell Hoboken, NJ;
2. Carr BR Blackwell RE Azziz R. Essential Reproductive Medicine. New York: McGraw-Hill Medical Publishing Division; 2005.
3. Balen AH. Infertility in Practice. Boca Raton ; London ; New York: CRC Press;
4. Fauser BCJM. Reproductive Medicine : Molecular Cellular and Genetic Fundamentals. Boca Raton: Parthenon Pub. Group;

Modul 3: Biologija maligno spremenjenih celic in translacijska onkologija/ Module 3: Biology of Malignant Cells and Translational Oncology

1. Tannock I. The basic science of oncology. 4th ed. New York: McGraw-Hill, Medical Pub. Division New York; 2005.
2. Pecorino L. Molecular Biology of Cancer : Mechanisms Targets and Therapeutics. 2nd ed. Oxford: Oxford University Press; 2008.

Modul 4: Celična biologija v klinični genetiki/ Module 4: Cell biology in clinical genetics

1. Strachan T, Read AP. Human molecular genetics. Fourth edition ed. New York: Garland Science/Taylor & Francis Group New York; 2011.

Modul 5: Sistemska medicina večfaktorskih bolezni/ Module 5: Systems medicine of multifactorial disorders

1. Behre J, de Figueiredo LF, Schuster S, Kaleta C. Detecting structural invariants in biological reaction networks. Methods Mol Biol. 2012;804:377-407. doi: 10.1007/978-1-61779-361-5_20. PMID: 22144164.

2. Maitland-van der Zee A-H Daly AK. Pharmacogenetics and Individualized Therapy. Hoboken N.J: John Wiley & Sons; 2012. (izbrana poglavja/selected chapters)
3. Janeway CA. Immunobiology : The Immune System in Health and Disease. 7th ed. New York: Garland Science; 2007. (izbrana poglavja/selected chapters)

2. LETNIK

IZBIRNI PREDMETI

ANALIZA SKELETNE MIŠICE

1. Engel A, Franzini-Armstrong C. Myology : basic and clinical. 3rd ed. New York: McGraw-Hill, Medical Pub. Division New York; 2004.
2. Karen P, Števanec M, Smerdu V, Cvetko E, Kubínová L, Eržen I. Software for muscle fibre type classification and analysis. Eur J Histochem. 2009;53(2):e11. Published 2009 Jun 29. doi:10.4081/ejh.2009.e11
3. Schiaffino S, Reggiani C. Fiber types in mammalian skeletal muscles. Physiol Rev. 2011 Oct;91(4):1447-531. doi: 10.1152/physrev.00031.2010. PMID: 22013216.
4. Smerdu V, Erzen I. Dynamic nature of fibre-type specific expression of myosin heavy chain transcripts in 14 different human skeletal muscles. J Muscle Res Cell Motil. 2001;22(8):647-55. doi: 10.1023/a:1016337806308. PMID: 12222825.
5. Smerdu V, Soukup T. Demonstration of myosin heavy chain isoforms in rat and humans: the specificity of seven available monoclonal antibodies used in immunohistochemical and immunoblotting methods. Eur J Histochem. 2008 Jul-Sep;52(3):179-90. doi: 10.4081/1210. PMID: 18840559.
6. Blaauw B, Schiaffino S, Reggiani C. Mechanisms modulating skeletal muscle phenotype. Compr Physiol. 2013 Oct;3(4):1645-87. doi: 10.1002/cphy.c130009. PMID: 24265241.

BIOLOGIJA TUMORJEV

1. Harrington L, Tannock I, Hill RP, Cescon D. The basic science of oncology. Sixth edition ed. New York: McGraw Hill New York; 2021.

CELİČNE KULTURE V RAZISKAVAH IN REGENERATIVNI MEDICINI

1. Atala A, Lanza R, Mikos AG, Nerem R. Principles of regenerative medicine. 3rd Edition ed. London [etc.]: Academic Press London [etc.]; 2018.
2. Najnovejši pregledni in raziskovalni članki s področja /The latest review and research articles from the field.

CELIČNI MODELI STRESA

1. Murphy MP, Bayir H, Belousov V, Chang CJ, Davies KJA, Davies MJ, Dick TP, Finkel T, Forman HJ, Janssen-Heininger Y, Gems D, Kagan VE, Kalyanaraman B, Larsson NG, Milne GL, Nyström T, Poulsen HE, Radi R, Van Remmen H, Schumacker PT, Thornalley PJ, Toyokuni S, Winterbourn CC, Yin H, Halliwell B. Guidelines for measuring reactive oxygen species and oxidative damage in cells and in vivo. *Nat Metab.* 2022 Jun;4(6):651-662. doi: 10.1038/s42255-022-00591-z. Epub 2022 Jun 27. PMID: 35760871; PMCID: PMC9711940.
2. Zhang J, Wang X, Vikash V, Ye Q, Wu D, Liu Y, Dong W. ROS and ROS-Mediated Cellular Signaling. *Oxid Med Cell Longev.* 2016;2016:4350965. doi: 10.1155/2016/4350965. Epub 2016 Feb 22. PMID: 26998193; PMCID: PMC4779832.
3. Najnovejši pregledni in raziskovalni članki s področja /The latest review and research articles from the field.

DELO Z IZOLIRANIMI ORGANI

1. Blattner R. Experimente an isolierten glattemuskulären Organen. March/Freiburg: Hugo Sachs Elektronik KG; 1978. 159 p.
2. Lovro Stanovnik, Metoda Lipnik Štangelj, Simona Rajtar Osredkar, David Osredkar, Ilonka Ferjan, Katarina Černe. Priprava za praktično delo študentov, spletna izdaja: <http://www.mf.uni-lj.si/ifet/studijsko-gradivo>
3. Kenakin TP. Pharmacologic Analysis of Drug Receptor Interaction. 3rd ed. New York: Raven Press; 1997.
4. Schliep HJ, Doering HJ, Classen HG, Dehnert H. Muscle contractions - isotonic, auxotonic, isometric. March: Biomesstechnik Verlag March GmbH; 1986.
5. Tallarida RJ Murray RB. Manual of Pharmacologic Calculations with Computer Programs. 2nd ed. New York: Springer-Verlag; 1987.

DETEKCIJA IN LOKALIZACIJA MOLEKUL V CELICAH

1. Celis JE. Cell biology : a laboratory handbook. 2nd ed. San Diego: Academic Press San Diego; 1998.
2. Hibbs AR. Confocal Microscopy for Biologists. New York: Kluwer Academic/Plenum; 2004.

DIAGNOSTIČNA IN EKSPERIMENTALNA CITOLOGIJA

1. Gray W, Kocjan G. Diagnostic cytopathology. 3rd ed. [Edinburgh]: Churchill Livingstone/Elsevier [Edinburgh]; 2010.
2. DeMay RM American Society for Clinical Pathology. The Book of Cells : A Breviary of Cytopathology. Chicago Illinois: American Society for Clinical Pathology; 2016.
3. Raziskovalni in pregledni članki, tekoča periodika, učna gradiva izbranega raziskovalnega področja.

DOLOČANJE IZRAŽANJA DOLOČENIH BELJAKOVIN V VZORCIH KULTUR SKELETNIH MIŠIČNIH CELIC Z METODO WESTERN BLOT

1. Temeljni učbeniki molekularne biologije/ Textbooks of molecular biology
2. Laboratorijski protokoli/ Laboratory work manuals
3. Pregledni članki s področja raziskovalnega projekta/ Review articles from research field

ELEKTROPORACIJA V BIOLOGIJI, BIOTEHNOLOGIJI IN MEDICINI

1. Miklavčič Damijan. Handbook of Electroporation. Cham Switzerland: Springer; 2017. doi:10.1007/978-3-319-32886-7.
2. Revijalni članki s področja, tekoča periodika, učna gradiva./Review papers in the field of electroporation; contemporary scientific publications, specifically for this course prepared study material, handouts.

GENSKA IMUNOTERAPIJA

1. Templeton NS. Gene and cell therapy : therapeutic mechanisms and strategies. Fourth edition ed. Boca Raton: CRC Press Boca Raton; 2015.
2. Razpotnik R, Novak N, Čurin Šerbec V, Rajcevic U. Targeting Malignant Brain Tumors with Antibodies. Front Immunol. 2017 Sep 25;8:1181. doi: 10.3389/fimmu.2017.01181. PMID: 28993773; PMCID: PMC5622144.
3. Frank RT, Najbauer J, Aboody KS. Concise review: stem cells as an emerging platform for antibody therapy of cancer. Stem Cells. 2010 Nov;28(11):2084-7. doi: 10.1002/stem.513. PMID: 21089119; PMCID: PMC3003900.
4. Najnovejši raziskovalni in pregledni članki s področja

IMUNOHISTOKEMIJA

1. Buchwalow IB, Böcker W. Immunohistochemistry : basics and methods. Berlin: Springer Berlin; 2010. <https://doi.org/10.1007/978-3-642-04609-4>
2. Polak JM Van Noorden S. Introduction to Immunocytochemistry. 3. ed. Oxford: BIOS Scientific Publ; 2003.

KRIOMETODE V ELEKTRONSKI MIKROSKOPIJI

1. Cavalier A, Spehner DI, Humbel BM. Handbook of cryo-preparation methods for electron microscopy. Boca Raton: CRC Press Boca Raton; 2008.
2. McIntosh JR. Methods in Cell Biology. Volume 79 Cellular Electron Microscopy. Amsterdam: Elsevier/Academic Press; 2007.
3. Pregledni članki.

MATIČNE CELICE: OD RAZISKAV DO CELIČNIH TERAPIJ

1. Masters JRW, Palsson B. Human adult stem cells. [Dordrecht]: Springer [Dordrecht]; 2009.
2. Bosch TCG. Stem Cells : From Hydra to Man. New York: Springer Science Business Media; 2008.
3. Yu JS. Cancer Stem Cells Methods and Protocols. Dordrecht: Springer; 2009. doi:10.1007/978-1-59745-280-9
4. Areman EM Loper K AAB. Cellular Therapy : Principles Methods and Regulations. Bethesda Md: AAB; 2009.
5. Najnovejši pregledni in raziskovalni članki s področja /The latest reviews and research articles from the field.

MEDICINSKA BIOFIZIKA

1. Nordlund TM, Taylor, Francis. Quantitative understanding of biosystems : an introduction to biophysics. Boca Raton [etc]: CRC Press/Taylor & Francis Group Boca Raton [etc]; 2011.
2. Herman IP. Physics of the Human Body. New York: Springer-Verlag Berlin Heidelberg; 2007.
3. Dowsett DJ Kenny PA Johnston RE. The Physics of Diagnostic Imaging. 1st ed. London: Chapman & Hall Medical; 1998.
4. Pregledni članki s področja / Review articles from the field.

METODE ZA ŠTUDIJ FUNKCIJE POSAMEZNE CELICE

1. Sakmann B, Neher E. Single-Channel recording. 2. ed. New York: Plenum Press New York; 1995.
2. Pawley JB. Handbook of Biological Confocal Microscopy. New York; London: Plenum Press; 1995.
3. Ogden D. Microelectrode Techniques : The Plymouth Workshop Handbook. 2nd ed. Cambridge Angleterre: Company of Biologists; 1994.
4. Tekoča periodika in zlasti pregledni članki s področij meritev na področju celične fiziologije

METODE ZA ŠTUDIJ MEMBRANSKIH BELJAKOVIN IN INTEGRITETE BIOLOŠKIH MEMBRAN NA MODELU BIOGENEZE MITOHONDRIJEV

1. Videla LA, Marimán A, Ramos B, José Silva M, Del Campo A. Standpoints in mitochondrial dysfunction: Underlying mechanisms in search of therapeutic strategies. *Mitochondrion*. 2022 Mar;63:9-22. doi: 10.1016/j.mito.2021.12.006. Epub 2022 Jan 3. PMID: 34990812.
2. Mokranjac D Perocchi F. *Mitochondria : Practical Protocols*. Second ed. New York NY: Humana Press; 2017.
3. Laboratory manuals, instructions and scientific methodology review papers for relevant techniques, e.g.

METODE ZA ŠTUDIJ PRESNOVE V TKIVIH IN POSAMEZNIH CELICAH

1. Freshney RI. *Culture of animal cells : a manual of basic technique*. New York: Alan R. Liss New York; 1983.
2. Pregledni članki iz področja / review papers from the field
3. Recentni raziskovalni članki iz področja / recent research papers from the field

MIKROMANIPULACIJA POSAMEZNIH CELIC

1. Batista U. *Gojenje sesalskih celic v in vitro pogojih*. Ljubljana: Študentska založba; 2005. 65 p.
2. Tabeling P. *Introduction to Microfluidics*. Oxford: Oxford University Press; 2010.
3. Isenberg G. *Modern Optics Electronics and High Precision Techniques in Cell Biology*. Berlin Heidelberg: Springer Berlin Heidelberg; 1998.
4. Pregledni članki s področja / Review articles from the field.

MOLEKULARNA DIAGNOSTIKA

1. Buckingham L. *Molecular diagnostics : fundamentals, methods, and clinical applications*. Philadelphia: F.A. Davis Co. Philadelphia.

NAČRTOVANJE IN ANALIZA KLINIČNIH IN EPIDEMIOLOŠKIH RAZISKAV

1. Hulley SB. *Designing clinical research*. 3rd ed. Philadelphia, PA: Lippincott Williams & Wilkins Philadelphia, PA; 2007.
2. Piantadosi S. *Clinical Trials : A Methodologic Perspective*. 2nd ed. Hoboken N.J: Wiley-Interscience; 2005.

NUMERIČNO MODELIRANJE PROCESOV V BIOFIZIKI

1. Press WH. *Numerical recipes in FORTRAN 77 : the art of scientific computing*. [Vol. 1,1] [Hauptband]. 2. , reprinted with corr., this reprinting is corrected to software version 2.10 ed. Cambridge: Cambridge Univ. Press Cambridge; 2001.

2. Bohte Z. Numerične metode. 4. natis. Let. 10. Ljubljana: Društvo matematikov, fizikov in astronomov Slovenije; 1991. 159 str.
3. Dunn SM Constantinides A Moghe PV. Numerical Methods in Biomedical Engineering. Amsterdam Academic Press: Amsterdam : Elsevier; 2006.
4. Pregledni in raziskovalni članki s področja / Review and research articles from the field.

OPTIČNA MIKROSKOPIJA VISOKE LOČLJIVOSTI – KONFOKALNA MIKROSKOPIJA

1. Pawley JB. Handbook of biological confocal microscopy. 3rd ed. New York, NY: Springer New York, NY; 2006.
2. Hibbs AR. Confocal Microscopy for Biologists. New York: Kluwer Academic/Plenum; 2004.
3. Current review articles / Novejši pregledni članki

PRESEJALNI TESTI ZA DOWNOV SINDROM

1. Wald NJ, Leck I. Antenatal and neonatal screening. 2nd ed. Oxford: Oxford University Press Oxford; 2000.

PRIPRAVA CELIČNIH KULTUR SKELETNIH MIŠIČ

Učbeniki molekularne biologije, učbeniki priprave celičnih kultur, laboratorijski protokoli.
Textbooks of molecular biology, basis of cell culture preparation, laboratory work manuals

STEREOLOGIJA IN KVANTITATIVNA ANALIZA SLIKE

1. Kališnik M. Temelji stereologije. 3. predelana izd. ed. Eržen I, Smolej V, editors. Ljubljana: Društvo za stereologijo in kvantitativno analizo slike (DSKAS); 2002. 132 p.
2. Glaser J Greene G Hendricks S. Stereology for Biological Research : With a Focus on Neuroscience. 2nd ed. Williston VT: MBF Press; 2007.
3. Marcos R, Monteiro RA, Rocha E. The use of design-based stereology to evaluate volumes and numbers in the liver: a review with practical guidelines. J Anat. 2012 Apr;220(4):303-17. doi: 10.1111/j.1469-7580.2012.01475.x. Epub 2012 Feb 1. PMID: 22296163; PMCID: PMC3375768.
4. Kamp S, Jemec GB, Kemp K, Kjeldsen CR, Stenderup K, Pakkenberg B, Dam TN. Application of stereology to dermatological research. Exp Dermatol. 2009 Dec;18(12):1001-9. doi: 10.1111/j.1600-0625.2009.00947.x. PMID: 19758342.
5. Waters JC, Wittmann T. Quantitative Imaging in Cell Biology. First ed. Amsterdam: Elsevier/AP; 2014.

SVETLOBNA IN ELEKTRONSKA MIKROSKOPIJA

1. Sanderson JB. Understanding Light Microscopy: Wiley; 2019.
2. Kuo J. Electron Microscopy : Methods and Protocols. 3rd ed. New York: Humana Press : Springer; 2014.
3. Müller-Reichert, Thomas Verkade P. Correlative Light and Electron Microscopy 4. First ed. Amsterdam u.a: Elsevier Acad. Press; 2021.
4. Müller-Reichert Thomas, Pigo G. Three-Dimensional Electron Microscopy. First ed. Cambridge MA: AP Academic Press an imprint of Elsevier; 2019.

ZNOTRAJCELIČNO SIGNALIZIRANJE PREK RECEPTORSKIH IN NERECEPTORSKIH PROTEIN-KINAZ

Standardni učbeniki s področja biokemije in molekularne farmakologije, raziskovalni in pregledni članki s področja s kinazami posredovanega znotrajceličnega signaliziranja.

Standard textbooks in biochemistry and molecular pharmacology, research and review papers on kinase-mediated intracellular signalling.

1. LETNIK

IZBIRNI PREDMETI

IZBRANA POGLAVJA IZ MEDICINSKE MIKROBIOLOGIJE

1. Medicinska bakteriologija z mikologijo in parazitologijo. Ljubljana: Medicinska fakulteta, Inštitut za mikrobiologijo in imunologijo, Katedra za mikrobiologijo in imunologijo; 2020. 423 p. (zadnja izdaja)
2. Koren S, Avšič-Županc T, Drinovec B, Marin J, Poljak M. Splošna medicinska virologija. 4. ponatis ed. Ljubljana: Medicinski razgledi; 2011. 201 p. (zadnja izdaja)
3. Medicinska virologija. 1. ponatis. Ljubljana: Medicinski razgledi; 2015. IX, 301. (zadnja izdaja)
4. Logar J. Parazitologija človeka. 1. izd. Radovljica: Didakta; 2010. 261 str. (zadnja izdaja)
5. Carroll KC Pfaller MA Landry ML et al. Manual of Clinical Microbiology. 13th ed. Washington DC: ASM Press American Society for Microbiology ; John Wiley & Sons; 2023. (zadnja izdaja)
6. Tomažič J, Strle F. Infekcijske bolezni. 2. izd. Ljubljana: Združenje za infektologijo, Slovensko zdravniško društvo; 2022. XXI, 659.
7. pregledni članki iz ustreznega področja/ review articles from selected topics

2. LETNIK

IZBIRNI PREDMETI

DIAGNOSTIČNA MIKROBIOLOGIJA

Novejši pregledni in originalni članki s področja diagnostične mikrobiologije /Review and original research papers from the topic diagnostic microbiology

Tekoči protokoli v laboratoriju / Current protocols used in laboratory

EKSPERIMENTALNA VIROLOGIJA

Novejši pregledni in originalni članki s področja klinične in bazične virologije /Review and original research papers from the topic of clinical and basic virology

KARAKTERIZACIJA IN IDENTIFIKACIJA MIKROGLIV

1. Mueller GM, Bills GF, Foster MS. Biodiversity of fungi : inventory and monitoring methods. Amsterdam: Elsevier Academic Press Amsterdam; 2004.
2. Carlile MJ, Watkinson SC, Gooday GW. The fungi. 2nd ed. London: Elsevier Academic Press London; 2004.
3. Zalar P, Gunde-Cimerman N. Taksonomija in identifikacija gliv. Ljubljana: Študentska založba; 2002. 92 str.
4. Spletne strani/Web pages:
<http://mycology.cornell.edu/>
<http://www.mycology.adelaide.edu.au/>
http://www.ispp-itsymposium.org.nz/papers/submiss_10/
<http://www.microbiological-garden.net>
5. Najnovejši pregledni članki s področja /The latest review articles from the field.

MEDICINSKA VIROLOGIJA

Novejši pregledni in originalni članki s področja medicinske virologije /Review and original research papers from the topic medical virology

Tekoči protokoli v laboratoriju / Current protocols used in laboratory

MIKROBIOLOGIJA PREBAVNEGA TRAKTA

1. Gastrointestinal microbiology. Vol. 1, Gastrointestinal ecosystems and fermentations. New York: Chapman & Hall; 1997. 2 v. p.
2. Gastrointestinal microbiology. Vol. 2, Gastrointestinal microbes and host interactions. New York [etc.]: Chapman & Hall; 1997. XIV, 680.
3. Wilson M. Microbial Inhabitants of Humans : Their Ecology and Role in Health and Disease. New York: Cambridge University Press; 2005.
4. Gibson GR; R Marcel B. Colonic Microbiota, Nutrition and Health. Springer Netherlands; 1999.
5. Intestinal Microorganisms of Termites and Other Invertebrates [Internet]. Berlin; Heidelberg: Springer; 2006. (Soil Biology; let. 6). Dostopno na: <http://link.springer.com/book/10.1007/3-540-28185-1>
6. Revijalni članki s področja, tekoča periodika, učna gradiva.

2. LETNIK

IZBIRNI PREDMETI

KVALITATIVNE METODE NA PODROČJU RAZISKOVANJA VEDENJA, POVEZANEGA Z ZDRAVJEM

1. Pope C, Mays N. Qualitative research in health care. 2nd ed. London: British Medical Journal London; 2000.
2. Hasson F, Keeney S, McKenna H. Research guidelines for the Delphi survey technique. J Adv Nurs. 2000 Oct;32(4):1008-15. PMID: 11095242.
3. Moser A, Korstjens I. Series: Practical guidance to qualitative research. Part 1: Introduction. Eur J Gen Pract. 2017 Dec;23(1):271-273. doi: 10.1080/13814788.2017.1375093. PMID: 29185831; PMCID: PMC8816396.
4. Korstjens I, Moser A. Series: Practical guidance to qualitative research. Part 2: Context, research questions and designs. Eur J Gen Pract. 2017 Dec;23(1):274-279. doi: 10.1080/13814788.2017.1375090. PMID: 29185826; PMCID: PMC8816399.
5. Moser A, Korstjens I. Series: Practical guidance to qualitative research. Part 3: Sampling, data collection and analysis. Eur J Gen Pract. 2018 Dec;24(1):9-18. doi: 10.1080/13814788.2017.1375091.
6. Korstjens I, Moser A. Series: Practical guidance to qualitative research. Part 4: Trustworthiness and publishing. Eur J Gen Pract. 2018 Dec;24(1):120-124. doi: 10.1080/13814788.2017.1375092. Epub 2017 Dec 5. PMID: 29202616; PMCID: PMC8816392.
7. Moser A, Korstjens I. Series: Practical guidance to qualitative research. Part 5: Co-creative qualitative approaches for emerging themes in primary care research: Experience-based co-design, user-centred design and community-based participatory research. Eur J Gen Pract. 2022 Dec;28(1):1-12. doi: 10.1080/13814788.2021.2010700. PMID: 35037811; PMCID: PMC8765256.
8. Korstjens I, Moser A. Series: Practical guidance to qualitative research. Part 6: Longitudinal qualitative and mixed-methods approaches for longitudinal and complex health themes in primary care research. Eur J Gen Pract. 2022 Dec;28(1):118-124. doi: 10.1080/13814788.2022.2053106. PMID: 35593106; PMCID: PMC9132407.
9. Focus Group Guidelines | eHow.com http://www.ehow.com/way_5262613_focus-group-guidelines.html#ixzz1Dqe0kkwK

KVALITATIVNO RAZISKOVANJE S POMOČJO INTERVJUJEV

1. Rotar-Pavlic D, Erzar A, Uštar B, Maksuti A. Medical students' perception of distance-based education during the COVID-19 pandemic in Slovenia: A qualitative study. Int J Educ Res Open. 2022;3:100135. doi:10.1016/j.ijedro.2022.100135

2. Rotar-Pavlič D, Maksuti A, Panić A, Pavleković K. Informal care in the context of long-term health care for the elderly in Slovenia: a qualitative study = Neformalna oskrba v okviru dolgotrajne zdravstvene oskrbe starejših v Sloveniji. Zdravstveno varstvo [Internet]. 2021;60(3):167–75. Dostopno na: <https://sciendo.com/article/10.2478/sjph-2021-0024>
3. Rotar-Pavlič D. Acquiring qualitative skills for public health research: using interviews to generate data. V: Methods and tools in public health: a handbook for teachers, researchers and health professionals. H. Jacobs; 2010. str. 382–401.

NA DOKAZIH TEMELJEČA ZDRAVSTVENA OBRAVNAVA IN MEDPOKLICNO SODELOVANJE

1. Melnyk BM, Fineout-Overholt E. Evidence-based practice in nursing & healthcare : a guide to best practice. 2nd ed. Philadelphia: Wolters Kluwer/Lippincott Williams & Wilkins Philadelphia; 2011.
2. Glasziou P Del Mar C Salisbury J. Evidence-Based Practice Workbook. Hoboken: Wiley-Blackwell; 2007.
3. Dearholt S Dang D. Johns Hopkins Nursing Evidence-Based Practice : Models and Guidelines. 2nd ed. Indianapolis IN: Sigma Theta Tau International etc; 2012.
4. Booth A Sutton A Papaioannou D. Systematic Approaches to a Successful Literature Review. Second ed. Los Angeles: Sage; 2016.

RAZISKOVANJE MED FIZIOLOŠKIM REPRODUKTIVNIM OBDOBJEM

1. Walsh D. Evidence-based care for normal labour and birth : skills and best practice for midwives. 2nd ed. London: Routledge London; 2011.
2. Kwansa T Stewart-Moore J. Evidence-Based Sexual and Reproductive Health Care : Policies Clinical Procedures and Related Research. Burlington: Jones & Bartlett Learning; 2018.

RAZISKOVANJE NA PODROČJU GERONTOLOGIJE IN PROCESOV STARANJA

1. Kaeberlein MR, Martin GM. Handbook of the biology of aging. 8th ed. Amsterdam [etc.]: Elsevier Academic Press Amsterdam [etc.]; 2016.
2. Originalni znanstveni članki iz tekoče periodike / Actual scientific papers.

RAZISKOVANJE NA PODROČJU MEHANIZMOV URAVNAVANJA DRŽE IN RAVNOTEŽJA

1. Shumway-Cook A, Woollacott MH. Motor control : translating research into clinical practice. Fifth edition ed. Philadelphia: Wolters Kluwer Philadelphia; 2017.
2. Kandel ER. Principles of Neural Science. 5th ed. New York: McGraw-Hill; 2013.
3. Latash ML Zatsiorsky VM. Biomechanics and Motor Control : Defining Central Concepts. London UK: Elsevier/AP Academic Press; 2016.

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