

**SEZNAM ŠTUDIJSKE LITERATURE – BIOMEDICINSKA TEHNOLOGIJA (PROGRAM 3. STOPNJE)
2023/2024**

1. LETNIK

Biomedicinska informatika

Edward H. Shortliffe, James J. Cimino: Biomedical Informatics, Springer USA, 2006.
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Bashshur RL, Shannon GW, History of Telemedicine –Evolution, Context and Transformation, Mary Ann Liebert publishers, New York, 2009.
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Enderle J, Blanchard SM, Bronzino JD. Introduction to Biomedical Engineering. Elsevier Science and Technology,

Biofizika

R. Glaser, Biophysics: An Introduction. Springer-Verlag, 2012.
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Lehninger principles of biochemistry. cop. 2017, 7th ed. /edited by Nelson, David Lee, 1942- ; Cox, Michael M.
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The big picture: medical biochemistry Janson, Lee W.; Tischler, Marc E. New York : McGraw-Hill Medical, cop.
Textbook of Biochemistry with clinical correlations, New York: J. Wiley. Devlin, T.M. (Ed.) 2011, ISBN: 978-0-470-
Molecular interactions between microorganisms and cells, Hacker, J. and Heesemann, J. (Ed.) 2002, ISBN: 0-471-
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Molekularna biologija

Molecular Cell Biology; Darnell, Lodish and Baltimore (Scientific American Books, W.H. Freeman and Company).
Human Molecular Genetics 2. 2nd ed. Strachan, Tom and Read, Andrew P.Oxford, UK: BIOS Scientific Publishers Ltd; 1999 (available free of charge on Pubmed under Bookshelf: <http://www.ncbi.nlm.nih.gov/entrez/query>)

Genetika

Predavanja

Članki za seminarje Učbeniki:

Thompson & Thompson : Genetics in Medicine, W.B.Saunders Company., 6the ISBN 0-7216-0244-4 and 7the ed. ISBN: 9781416030805, 2007 , ISBN: 9781437706963 8th ed. 2016.

Andrew Read and Dian Donnai: New Clinical Genetics, 3nd Ed., 2015, ISBN 9781907904677.

G. Bradley Schaefer, James N. Thompson, Jr. Medical Genetics: An Integrated Approach. McGraw-Hill Education Press, 2014.

Farmacevtska biotehnologija

Sandy B. Primrose, By (author) Richard Twyman : Principles of Gene Manipulation and Genomics; 8th Revised edition; Wiley-Blackwell (an imprint of John Wiley & Sons Ltd), 2016.

Crommelin J.A., Sindelar R.D.: Pharmaceutical Biotechnology, Third edition. CRC Press, New York, 2007.

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Periodične publikacije: Advanced Healthcare Materials, Tissue Engineering - Part B: Reviews.

Raziskovanje v klinični praksi

Klinično preizkušanje zdravil

Zakon o zdravilih. Ur List RS št. 31, 24.3.2006.

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Povezovanje temeljnih laboratorijskih in kliničnih raziskav

Michael Lieberman, Allan Marks, Alisa Peet.: Marks' basic medical biochemistry : a clinical approach. 4th ed., Philadelphia : Lippincott Williams & Wilkins, 2013.

Robert Nussbaum, Roderick McInnes, Huntington Willard. Thompson & Thompson Genetics in Medicine. 8th ed., Philadelphia: Elsevier, 2015.

Sistemske vezivno-tkivne bolezni

Ruddy S, Harris ED, Sledge CB, Budd RC, Sergent JS, editors. Kelley's textbook of rheumatology. 6th ed.

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Epidemiološke metode – temeljno orodje v klinični medicini in javnemu zdravju

Premik M. Uvod epidemiologijo. Ljubljana: Medicinska fakulteta, Inštitut za socialno medicino, 1998.

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Brownson RC, Baker EA, Leet T, Gillespie KN. Evidence based public health. Oxford, New York: Oxford University Press, 2003.

Izbrana poglavja iz učbenika: Detels R, McEwen J, Beaglehole R, Tanaka H, eds. Oxford textbook of public health. Oxford: Oxford University Press, 2002.

R. Beaglehole, R. Bonita, T. Kjeldstrom Basic Epidemiology. World Health Organisation (WHO). 1994. Greenberg, R.S. Daniels, F.W. Flanders, J.W. Eley, J.R. Boring: Medical Epidemiology, Appleton&Lange, East Norwalk, 1993.

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Statistika v medicini

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Riffenburgh R. H., Statistics in medicine. Elsevier, London 2006 (2nd ed.).

Ramsey F. L., Schafer D. W., The statistical sleuth (a course in methods of data analysis). Thomson, London 1997.

Najnovejši diagnostični in terapevtski dosežki v dermatovenerologiji

Dermatology, Braun-Falco O et al. 3rd ed., Springer 2005.

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Philip H McKee, Eduardo Calonje and Scott R Granter. Pathology of the skin, Elsevier Mosby 2006.

Human Molecular Genetics 2. 2nd ed. Tom Strachan & Andrew P. Read. Oxford, UK BIOS Scientific Publishers Ltd

Human genetics: problems and approaches, 3rd ed. F.Vogel, A.G.Motulski. Springer 1997. Jean L. Bologna, et al.

Dermatology, 3rd ed. St. Louis, Mosby 2003.

Metode znanstvenoraziskovalnega dela

P. Dunleavy: Authoring a PhD Thesis: How to Plan, Draft, Write and Finish a Doctoral Thesis, Palgrave MacMillan, Hampshire, 2003;

Critical Thinking in Clinical Research: Applied Theory and Practice Using Case Studies. Editorji: Felipe Fregni in Ben M.W. Illigens, Oxford University Press, Oxford, United Kingdom, 2018.

Individualno raziskovalno delo 1

Znanstveni članki, spletne informacije, patenti, knjige s področja raziskovanega problema, biomedicine, biomedicinske tehnologije, etike in sorodnih področij.

Individualno raziskovalno delo 2

Znanstveni članki, spletne informacije, patenti, knjige s področja biomedicine, biomedicinske tehnologije, etike in sorodnih področij.

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2. LETNIK

Prenosljiva znanja

Ni predpisana.

Individualno raziskovalno delo 3

Znanstveni članki, spletne informacije, patenti, knjige s področja biomedicine, biomedicinske tehnologije, etike in sorodnih področij.

Individualno raziskovalno delo 4

Znanstveni članki, spletne informacije, patenti, knjige s področja biomedicine, biomedicinske tehnologije, etike in sorodnih področij.

Nanodelci v biomedicini

N. T. K Thanh (Ed.) »Clinical Applications of Magnetic Nanoparticles: From Fabrication to Clinical Applications« CRC Press, 2018.

R. B. Gupta, U. B. Kompella »NANOPARTICLE technology for drug delivery«, CRC Press, 2006.

E. Merbach, E. Tóth, »The Chemistry of Contrast Agents in Medical Magnetic Resonace Imaging«, Wiley, UK, Chichester, 2001.

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Shi J. Functional Food Ingredients and Nutraceuticals. CRC Press, Boca Raton, 2016.

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Victor R Preedy, George Grindle, Ronald Watson. Nutrition in the infant: problems and practical procedures, London: Greenwich Medical Media, 2001.

Cataldo, Corinne Balog. Nutrition and diet therapy: principles and practice, Belmont, CA: Wadsworth/Thomson Learning, 2003.

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D. Braun, H. Cherdron, H. Ritter: Polymer Synthesis: Theory and Practice, Springer, Berlin, 2001.

R. A. Pethrick, Polymer structure characterization: from nano to macro organization. The Royal Society of Chemistry, Cambridge, 2007.

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J. V. Edwards, T. L. Vigo, Bioactive fibres and Polymers, American Chemical Society, Washington, DC, 2001.

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J. Black, Biological Performance of materials, Marcel Dekker, Inc., New York, 1999.

K. Park, Controlled Drug Delivery. Challenges and Strategies, ACS professional reference book, 1997,

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Sintetični biopolimeri

Shalaby S.W., Ikada Y., Langer R. (Eds.) Polymers of biological and biomedical significance, ACS Symposium BIOPOLYMERS II ADVANCES IN POLYMER SCIENCE 122: 219-244 1995.

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Membranski snovni transportni pojavi

D. S. Wilkinson, Mass Transport in Solids and Fluids, Cambridge University Press, 2000.

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Ustrezne revije: Nature Reviews: Molecular cell biology, npg, Journal of Microscopy, Blackwell Publ. Novejši članki s področja celične biologije.

Mikrobna patogeneza

Znanstvena periodika (Molecular and Microbiological reviews, Nature Microbiology, Clinical Microbiology Reviews, Nature Reviews Microbiology)

Murray PR, Rosenthal KS, Pfaller PA, Medical Microbiology, 8th Edition, Mosby, 2016.

Abbas A, Lichtman AH, Pillai S, Cellular and molecular immunology, 9th Edition, Elsevier, 2017.

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B Alberts, AD Johnson et al. Molecular biology of the cell. 6th Ed, WW Norton & Company, 2014, ISBN 978WF
Boron, EL Boulpaep. Medical Physiology. 3rd Ed, Elsevier, 2016, ISBN 978-1455743773.

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JB Pawley. Handbook of biological confocal microscopy, 3rd Ed, Springer, 2010, ISBN
B Hille. Ionic channels of excitable membranes, 3rd Ed, Sinauer Associates, 2001, ISBN 978-0878933211

Matematična fiziologija

J Keener, J Sneyd: Mathematical Physiology, I: Cellular Physiology, 2nd Ed, Springer, 2008.
J Keener, J Sneyd: Mathematical Physiology, II: Systems Physiology, 2nd Ed, Springer, 2008.
A Stožer, L Križančić Bombek, J Dolenšek, M Skelin. Izbrana poglavja iz fiziologije : za študente medicine : z navodili za vaje. 1. izd. Maribor: Medicinska fakulteta, 2012. 215 str., ilustr. ISBN 978-961-6739-36-8

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Klinična farmakokinetika

M. Rowland, T. N. Tozer, Clinical Pharmacokinetics and Pharmacodynamics: Concepts and Applications, Fourth Edition, Lippincot Williams & Wilkins, Philadelphia, 2010.
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I. Shargel, A. H. Mutnick, P. F. Souney, L. N. Swanson, Comprihensive Pharmacy Review, Lippincot Williams & Wilkins, Philadelphia, Seventh edition, 2009.
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Casarett & Doull's Toxicology, ed. C. D. Klaassen, 8th ed., McGraw-Hill Education, New York, 2013
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Farmakoepidemiologija in farmakoeconomika

Drummond, Michael F., Mark J. Sculpher, Karl Claxton, Greg L. Stoddart, and George W. Torrance. Methods for the economic evaluation of health care programmes. Oxford university press, 2015.

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Obdelava biomedicinskih signalov

Roberto Merletti, Dario Farina (Eds.): Surface Electromyography: Physiology, Engineering and Applications", IEEE Press Series on Biomedical Engineering, 2016.

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Metode umetne inteligence

Russell, S. J., Norvig, P. Artificial Intelligence: a Modern Approach. 2nd Edition, Addison Wesley, 2002.

Nilsson, N. J. Artificial Intelligence: a New Synthesis. Morgan Kaufmann, San Francisco, 1998.

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NMR v biomedicini

Demšar F., Jevtič V., Bačić G., Slikanje z magnetno resonanco, Littera picta, Ljubljana 1996, ISBN: 9616030191
Vlaardingerbroek M.T., den Boer J.A., Magnetic Resonance Imaging, Springer, Berlin 1996, ISBN: 3540600809
Haacke E.M., Brown R.W., Thompson M.R., Venkatesan R., Magnetic Resonance Imaging (physical principles and sequence design), John Wiley & Sons, New York 1999, ISBN: 0471351288
William R., Hendee, E. Russell Ritenour, Medical Imaging Physics, 4th edition, John Wiley & Sons, New York 2002, ISBN: 0471382264

Raziskovalne metode v patologiji

American Journal of Surgical Pathology
Modern Pathology
Histopathology
Virchows Archiv
Nature
Druga relevantna literatura

Nevrokirurgija

Follett K.A., Neurosurgical Pain Management, Elsevier Saunders, Iowa, 2004
Winn H.R., Youmans and Winn Neurologic Surgery, 7th ed., Elsevier, 2016
Greenberg M.S., Handbook of Neurosurgery, 8th ed., Greenberg Graphics, 2016
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340 str., ilustr. ISBN 978-961-6739-15-3. [COBISS.SI-ID 65527553]

Biomehanika z osteologijo in osteosintezo

Buckley RE, Moran CG, Apivatthakakul T. AO Principles of fracture Management, 3rd ed., New York:
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Stannard JP, Schmidt AH. Surgical Treatment of Orthopaedic Trauma, Stuttgart, New York, Delhi, Rio: Thieme; Brinker MR. Review of Orthopaedic Trauma. 2nd ed.,Philadelphia, Lippincott, 2013.

Terapevtske metode v anestezijologiji

Miller RD. Anaesthesia 6th edition. Churchill Livingstone; 2004 – izbrana poglavja
Navodila za uporabo posameznih monitorjev – dostopna v UKC Maribor (priprava seminarjev)

Ginekološka onkologija

Coppleson M (ed). Gynecologic Oncology. Fundamental Principles and Clinical Practice. Second Edition, Edinburgh: Churchill Livingstone, 1992.

Fras AP (ed). Onkologija. Katedra za onkologijo in radioterapijo. Onkološki inštitut v Ljubljani. Ljubljana: Didakta DeVita VT, Hellman S, Rosenberg SA. Cancer. Principles & Practice of Oncology. 6 th. ed. Philadelphia: Lippincott Williams & Wilkins, 2001.

Pazdur R, Coia LR, Hoskins WJ, Wagman LD. Cancer Management: A Multidisciplinary Approach. Medical, Surgical, & Radiation Oncology. 8th ed. New York: CMP Healthcare Media, 2004.

Nefrologija

Brenner and Rector's The Kidney, 2-Volume Set, 10th Edition, 2015 Authors: Karl Skorecki & GlennM. Chertow & Philip A. Marsden & Maarten W. Taal & Alan S. L. Yu https://www.eu.elsevierhealth.com/brenner-and-rectorsthekidney-2-volume-set_9781455748365.html?gclid=EA1a1QobChMIK_Mi4bt4QlViOd3Ch2-

Oxford Textbook of Clinical Nephrology: 3-Volume Set includes a free CD containing the full contents of the book 3rd, Edition, 2008 by Alexander Davison (Editor), J. Stewart Cameron (Editor), Jean Pierre Grünfeld (Editor), Claudio Ponticelli (Editor), Eberhard Ritz (Editor), Christopher G. Winearls (Editor), Charles Van Ypersele (Editor) <https://www.amazon.com/Oxford-Textbook-Clinical-Nephrology->

Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 & Vol.2) 20th Edition, 2018 by J. Larry Jameson (Author), Anthony S. Fauci (Author), Dennis L. Kasper (Author), Stephen L. Hauser (Author), Dan L.

Longo (Author), Joseph Loscalzo (Author) https://www.amazon.com/Harrisons-Principles-Internal-MedicineTwentieth/dp/1259644030/ref=sr_1_1?keywords=Harrison%27s+Principles+of+Internal+Medicine&qid=1556257878&s=books&sr=1-1

Izbrana poglavja iz kardiologije

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Kasper DL, Braunwald E, Fauci A, Hauser S, Longo D, Jameson JL. Harrison's Principles of Internal Medicine. 16th ed. McGraw-Hill Professional 2004.

Dalla Volta S, Braunwald E, Bayes de Luna A, Jezek V, Brochier ML; Mortensen SA, Dienstl F, Poole-Wilson PA (eds.). Cardiology. 1st Edition. McGrawHill Companies 1999.

Klinična imunologija

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Roitt I., Brostoff J., Male D. Immunology. Mosby; 6th edition (2001), ISBN: 0723431892

Janeway C.A. Jr., Travers P., Walport M., Capra J.D. Immunobiology - the immune system in health and disease. Garland Publishing; 5th edition (2001), ISBN: 081533642X

Vozelj M. Temeljna imunologija. DZS (2001)

Isenberg DA, Maddison PJ, Woo P, Glass D.Oxford Textbook of Rheumatology. Oxford University Press; 3rd Bk&CD edition (2004), ISBN: 0198509480

McCarty DJ, Koopman WJ. Arthritis and Allied Conditions: A Textbook of Rheumatology. Williams & Wilkins; 12th edition (January 1, 1993) ISBN: 0812114302

Infekcijske bolezni

- Mandell GL, Bennet JE, Dolin R, Principles and practice of infectious Diseases. Philadelphia, Churchill Livingstone, Armstrong D, Cohen J. Infectious Diseases. London, Mosby, 1999.
- Laundy M, Gilchrist M et al. Antimicrobial stewardship 2016. Oxford University press, 2016.

Izbrana poglavja iz pediatrije

- Riccabona M, ed. Pediatric Urogenital Radiology. 2nd ed. Cham: Springer International Publishing; 2018. p.
- Kliegman RM, et al, eds. Nelson Textbook of Pediatrics. 20th ed. Philadelphia: Elsevier; 2016. p. 1–3464.
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Izbrana poglavja iz oftalmologije

American Academy of Ophthalmology (all sections), Basic and Clinical science course, P.O. Box 7424, San Francisco, USA, 2022-2023

- J.J. Kanski: Clinical Ophthalmology. 9th Edition 2019 Elsevier
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SEZNAM ŠTUDIJSKE LITERATURE – BIOMEDICINSKA TEHNOLOGIJA (PROGRAM 3. STOPNJE)
2023/2024

3. LETNIK

Individualno raziskovalno delo 5

Znanstveni članki, spletne informacije, patenti, knjige s področja biomedicine, biomedicinske tehnologije, etike in sorodnih področij. / Scientific articles, internet information, patents, books on biomedicine, biomedical

Izdelava in zagovor doktorske disertacije

Znanstveni članki, spletne informacije, patenti, knjige s področja biomedicine, biomedicinske tehnologije, etike in sorodnih, interdisciplinarnih področij./ Scientific articles, internet information, patents, books on biomedicine, biomedical technology, ethics and related interdisciplinary fields.