Curriculum Vitae

Personal information

Judit Bedekovics

Work experience

- September 2011- August 2014, PhD Candidate, University of Debrecen Department of Pathology, Hungary

- September 2014 - February 2018, pathologist trainee, University of Debrecen Department of Pathology, Hungary

- March 2018 - present, consultant pathologist, senior lecturer, University of Debrecen Department of Pathology, Hungary

main activities as consultant pathologist, senior lecturer

- Performing routine diagnostic work as consultant pathologist, which includes various tasks in both anatomical and surgical pathology. My primary interests lie in hematopathology, neuropathology, and molecular pathology. Main activities include the morphologic analysis of different tissue samples, assessing immunohistochemical stains and integrating of findings with the clinical presentation. The diagnostic work requires the interpretation of various molecular results. Pathological analysis of tumor samples aims to achieve proper, personalized diagnosis including the identification of relevant prognostic and predictive markers.
- Main activities also include supporting the diagnostic work of the molecular laboratory with sample selection and preparation. Interpretation and integration of molecular results, quality assurance activities.
- Tutoring PhD and medical students in field of molecular pathology, oncology, histology. Research activity includes reanalysation of tissue samples, identifying diagnostic, prognostic or predictive markers as well as correlating histological and molecular findings.

Education and training

- **June 2018-present, molecular genetic diganostics, ongoing training, University of Debrecen, Hungary**

  subjects/skills

  Overview of molecular genetics and its significance in diagnostics.

  Understanding the structure and function of DNA, RNA, and proteins.

Overview of molecular laboratory techniques
DNA and RNA extraction techniques.
Polymerase Chain Reaction (PCR) and its applications.
DNA sequencing and fragment analysis.
Next-generation sequencing (NGS) and its applications.
Array-based technologies for genetic analysis.
Examination of genetic mutations and their association with diseases.
Exploration of genetic markers for diagnostic purposes.
Quality Control and Assurance:
Bioinformatics in Molecular Diagnostics:
Introduction to bioinformatics tools for genetic data analysis.
Interpretation of sequencing data.
Reporting and documentation of genetic findings.
Prenatal diagnostic techniques
Inherited disorders
Ethical and Legal Considerations:
Discussion of ethical issues related to genetic testing.
Genetic counseling

- **September 2014 - February 2018, Department of Pathology, University of Debrecen, Hungary**
  pathology specialist tarining
  summa cum laude
  subjects/skills
  Histopathology: microscopic examination of tissues. Interpretation of cellular and tissue changes indicative of diseases, gaining expertise in identifying abnormalities and understanding their clinical significance.

  Cytopathology: study of cells obtained through methods like fine needle aspiration or Pap smears. Evaluation cell morphology, identifying abnormalities, and rendering accurate cytological diagnoses.

  Molecular Pathology: explore the molecular basis of diseases, including genetic mutations and alterations.

  Autopsy Pathology: post-mortem examination of bodies to determine the cause of death. Conducting autopsies, interpreting findings, and communicating results to other healthcare professionals.

  Interdisciplinary Collaboration: effective communication and collaboration with clinicians, radiologists, and surgeons to ensure comprehensive patient care.

- **September 2011- August 2014, Doctoral School of Medical**

Sciences, University of Debrecen Department of Pathology, Hungary
PhD degree in the field of Hematopathology
summa cum laude

- **September 2005-August 2011 Faculty of Medicine, University of Debrecen, Hungary**

summa cum laude
general medicine, medical doctor

Additional information

Publications

Total impact factor: 65.195

h-index: 9

2023

Juhász, P., Hasulyó, D., Bedekovics, J., Beke, L., Kacsala, N., Török, M., Méhes, G.: Carbonic Anhydrase IX (CAIX) Expressing Hypoxic Micro-environment Hampers CD8+ Immune Cell Infiltrate in Breast Carcinoma.
Appl. Immunohistochem. Mol. Morphol. 31 (1), 26-32, 2023.
Q3 Histology (2022)
Q2 Medical Laboratory Technology (2022)
Q2 Pathology and Forensic Medicine (2022)
IF: 1.6 (2022)
Virga, I., Páyer, E., Barna, S., Bedekovics, J., Váróczy, L., Virga, B., Nagy, Z., Illés, Á., Magyari, F.: Ritka lokalizációjú plasmocytoma autológ hemopoetikus őssejtátültetést követően.
Hematol. Trasnzfuziol. 56 (2), 93-98, 2023.

2022

Csoma, S., Bedekovics, J., Veres, G., Árokszállási, A., András, C., Méhes, G., Mokánszki, A.: A perifériás vérben keringő szabad DNS molekuláris vizsgálata epeúti malignitásokban.
Orv. hetil. 163 (50), 1982-1991, 2022.

Csoma, S., Bedekovics, J., Veres, G., Árokszállási, A., András, C., Méhes, G., Mokánszki, A.: Circulating Cell-Free DNA-Based Comprehensive Molecular Analysis of Biliary Tract Cancers Using Next-Generation Sequencing.
Cancers (Basel). 14 (1), 1-13, 2022.
Q2 Cancer Research
Q1 Oncology
IF: 5.2

Madarász, K., Mótyán, J., Bedekovics, J., Miltényi, Z., Ujfalusi, A., Méhes, G., Mokánszki, A.: Deep Molecular and In Silico Protein Analysis of p53 Alteration in Myelodysplastic Neoplasia and Acute Myeloid Leukemia.
Cells. 11 (21), 1-23, 2022.
Q1 Biochemistry, Genetics and Molecular Biology (miscellaneous)
IF: 6

Kurdi, N., Mokánszki, A., Méhes, G., Bedekovics, J.: Histone H3 K27 alterations in central nervous system tumours: challenges and alternative diagnostic approaches.
Mol. Cell. Probes. 66 1-8, 2022.
Q3 Cell Biology
Q3 Molecular Biology
IF: 3.3

2021

Magyari, F., Kracskó, B., Bedekovics, J., Bereczky, Z., Illés, Á., Schlammadinger, Á.: Differential diagnostic and treatment difficulties in a patient with acquired von Willebrand syndrome.
Hematology. 26 (1), 301-304, 2021.
Folyóirat-mutatók:
Q3 Hematology
IF: 2.264

2020

Pinczés, L., Magyari, F., Reményi, G., Pfliegler, G., Barna, S., Bedekovics, J., Illés, Á.: Intravascular Occlusion by Leukemic Blast Cells Causing Multiplex Hand Necrosis in a Patient with Acute Myeloid Leukemia.
Pathol. Oncol. Res. 26 (2), 1349-1351, 2020.
Q3 Cancer Research
Q2 Medicine (miscellaneous)
Q3 Oncology
Q2 Pathology and Forensic Medicine
IF: 3.201

Bedekovics, J., Beke, L., Mokánszki, A., Szilágyi, S., Méhes, G.: Programmed Death-ligand 1 (PD-L1) Expression in Thymic Epithelial Tumors.
Appl. Immunohistochem. Mol. Morphol. 28 (1), 1-9, 2020.
Q2 Histology
Q1 Medical Laboratory Technology
Q2 Pathology and Forensic Medicine
IF: 2.085

2019

Győry, F., Fedor, R., Andrási, M., Barna, S., Bedekovics, J., Erdei, A., Damjanovich, L., Kovács, D.: A Basedow-kór és differenciált pajzsmirigy-carcinoma onkológiai-sebészeti vonatkozásai tapasztalataink alapján.
Magyar Seb. 72 (3), 118-119, 2019.

Méhes, G., Matolay, O., Beke, L., Czenke, M., Jóna, Á., Miltényi, Z., Illés, Á., Bedekovics, J.: Hypoxia related carbonic anhydrase IX expression is associated with unfavourable response to first-line therapy in classical Hodgkin's lymphoma.
Histopathology. 74 (5), 699-708, 2019.
Q1 Histology
Q1 Medicine (miscellaneous)
Q1 Pathology and Forensic Medicine
IF: 3.626

Pinczés, L., Magyari, F., Reményi, G., Pfliegler, G., Barna, S., Bedekovics, J., Illés, Á.: Intravaszkuláris blasztos okkluzió által okozott multiplex bőrnekrózis egy akut myeloid leukémiás betegünk esete kapcsán.
In: A Magyar Hematológiai és Transzfúziológiai Társaság XXVII. Kongresszusa, Magyar Hematológiai és Transzfúziológiai Társaság, Pécs, 117-118, 2019.

Matolay, O., Beke, L., Gyurkovics, A., Francz, M., Varjasi, G., Rejtő, L., Illés, Á., Bedekovics, J., Méhes, G.: Quantitative Analysis of Carbonic Anhydrase IX Uncovers Hypoxia-Related Functional Differences in Classical Hodgkin Lymphoma Subtypes.
Int. J. Mol. Sci. 20 (14), 1-12, 2019.
Q2 Catalysis
Q1 Computer Science Applications
Q1 Inorganic Chemistry
Q1 Medicine (miscellaneous)
Q2 Molecular Biology
Q1 Organic Chemistry
Q1 Physical and Theoretical Chemistry
Q1 Spectroscopy
IF: 4.556

Sarang, Z., Sághy, T., Budai, Z., Ujlaky-Nagy, L., Bedekovics, J., Beke, L., Méhes, G., Nagy, G., Rühl, R., Moise, A., Palczewski, K., Szondy, Z.: Retinol Saturase Knock-Out Mice are Characterized by Impaired Clearance of Apoptotic Cells and Develop Mild Autoimmunity.
Biomolecules. 9 (11), 737, 2019.
Q1 Biochemistry
Q2 Molecular Biology
IF: 4.082

Molnár, C., Molnár, S., Bedekovics, J., Mokánszki, A., Győry, F., Nagy, E., Méhes, G.: Thyroid Carcinoma Coexisting with Hashimoto's Thyreoiditis: clinicopathological and Molecular Characteristics Clue up Pathogenesis.
Pathol. Oncol. Res. 25 (3), 1191-1197, 2019.
Q3 Cancer Research
Q2 Medicine (miscellaneous)
Q3 Oncology
Q2 Pathology and Forensic Medicine
IF: 2.826

2018

Magyari, F., Bedekovics, J., Décsy, J., Ilonczai, P., Illés, Á., Simon, Z.: A korai/praefibroticus primer myelofibrosis kivizsgálása és kezelése egy eset kapcsán.
Orvosi Hetilap. 159 (15), 603-609, 2018
Q3 Medicine (miscellaneous)
IF: 0.564

Szánthó, E., Kárai, B., Ivády, G., Bedekovics, J., Szegedi, I., Petrás, M., Ujj, G., Ujfalusi, A., Kiss, C., Kappelmayer, J., Hevessy, Z.: Comparative Analysis of Multicolor Flow Cytometry and Immunohistochemistry for the Detection of Disseminated Tumor Cells.
Appl. Immunohistochem. 26 (5), 305-315, 2018.
Q2 Histology
Q1 Medical Laboratory Technology
Q2 Pathology and Forensic Medicine
IF: 1.863

Bedekovics, J., Irsai, G., Dull, K., Beke, L., Krenács, L., Gergely, L., Méhes, G.: Mitotic Index Determined by Phosphohistone H3 Immunohistochemistry for Precise Grading in Follicular Lymphoma.
Appl. Immunohistochem Mol. Morphol. 26 (8), 579-585, 2018
Q2 Histology
Q1 Medical Laboratory Technology
Q2 Pathology and Forensic Medicine
IF: 1.863

Juhász, M., Pálóczi, B., Végh, T., Bedekovics, J., Bán, M., Fülesdi, B.: Tüdőreszekciót követő tüdővérzés ritka esete.
Orv. hetil. 159 (28), 1158-1162, 2018.
Q3 Medicine (miscellaneous)
IF: 0.564

2017

Kárai, B., Bedekovics, J., Miltényi, Z., Gergely, L., Szerafin, L., Ujfalusi, A., Kappelmayer, J., Hevessy, Z.: A single-tube flow cytometric procedure for enhancing the diagnosis and prognostic classification of patients with myelodysplastic syndromes.
Int. J. Lab. Hematol. 39 (6), 577-584, 2017
Q2 Biochemistry (medical)
Q2 Clinical Biochemistry
Q2 Hematology
Q2 Medicine (miscellaneous)
IF: 1.919

Méhes, G., Dull, K., Jobanputra, R., Beke, L., Vereb, G., Bedekovics, J.: Distinct Dynamics of Mitotic Transition in B-Cell Lymphoma and Reactive B-Cell Lymphoproliferations Determined by H3S10 Phosphohistone Immunolabeling.
Pathobiology. 84 (5), 243-250, 2017.

Q3 Cell Biology
Q2 Medicine (miscellaneous)
Q3 Molecular Biology
Q2 Pathology and Forensic Medicine
IF: 1.592

Dócs, O., Dull, K., Mokánszki, A., Mónus, A., Beke, L., András, C., Bedekovics, J., Méhes, G.: Mutant KRAS Status Is Associated with Increased KRAS Copy Number Imbalance: a Potential Mechanism of Molecular Heterogeneity.
Pathol. Oncol. Res. 23 (2), 417-423, 2017.
Q3 Cancer Research
Q2 Medicine (miscellaneous)
Q3 Oncology
Q2 Pathology and Forensic Medicine
IF: 1.935

Székely, B., Simon, Z., Gergely, L., Magyari, F., Bedekovics, J., Barna, S., Illés, Á.: Sikeres siltuximabkezelés multicentrikus Castleman-betegségben.
Hematol. Trasnzfuziol. 50 (2), 67-72, 2017.

2015

Nyilas, R., Bedekovics, J., Kárai, B., Hevessy, Z., Selmeczi, A., Ilonczai, P., Illés, Á., Gergely, L.: Autoimmun haemolyticus anaemia és súlyos csontvelő-aplasia - a háttérben álló ok néha meglepetés a kezelőorvos számára.
Hematol. Trasnzfuziol. 48 (2), 102-107, 2015.

Dull, K., Bedekovics, J., Dócs, O., Irsai, G., Gergely, L., Beke, L., Méhes, G.: Mitotic Kinase Aurora B is Frequently Overexpressed in Aggressive B-Cell Lymphoma.
World Journal of Pathology. 4 (4), 14-24, 2015.

Krenács, D., Borbényi, Z., Bedekovics, J., Méhes, G., Bagdi, E., Krenács, L.: Pattern of MEF2B expression in lymphoid tissues and in malignant lymphomas.
Virchows Arch. 467 (3), 345-355, 2015.
Q3 Cell Biology
Q1 Medicine (miscellaneous)
Q2 Molecular Biology
Q1 Pathology and Forensic Medicine
IF: 2.627

Méhes, G., Tzankov, A., Hebeda, K., Anagnostopoulos, I., Krenács, L., Bedekovics, J.: Platelet-derived growth factor receptor [béta] (PDGFR[béta]) immunohistochemistry highlights activated bone marrow stroma and is potentially predictive for fibrosis progression in prefibrotic myeloproliferative neoplasia.
Histopathology. 67 (5), 617-624, 2015
Q1 Histology
Q1 Medicine (miscellaneous)
Q1 Pathology and Forensic Medicine
IF: 3.425

2014

Méhes, G., Irsai, G., Bedekovics, J., Beke, L., Fazakas, F., Rózsa, T., Kiss, C.: Activating BRAF V600E mutation in aggressive pediatric Langerhans cell histiocytosis: demonstration by Allele-specific PCR/Direct sequencing and immunohistochemistry.
Am. J. Surg. Pathol. 38 (12), 1644-1648, 2014.
D1 Anatomy
D1 Pathology and Forensic Medicine
D1 Surgery
IF: 5.145

Méhes, G., Irsai, G., Bedekovics, J., Beke, L., Fazakas, F., Rózsa, T., Kiss, C.: Activating B-Raf V600E mutation in aggressive pediatric Langerhans cell histiocytosis: demonstration by Allele-specific PCR/Direct sequencing and immunohistochemistry.
Virchows Arch. 465 (Suppl.), 325, 2014.

Bedekovics, J., Méhes, G.: A csontvelőfibrosis patomechanizmusa és előfordulása neoplasticus kórképekben.
Orvosi Hetilap. 155 (10), 367-375, 2014.
Q3 Medicine (miscellaneous)

Méhes, G., Irsai, G., Bedekovics, J., Beke, L., Fazakas, F., Rózsa, T., Kiss, C.: BRAF V6O0E mutáció gyakorisága és prognosztikai szerepe gyermekkori Langerhans-sejtes histiocytosisban: vizsgálatok allélspecifikus PCR/direkt szekvenálással és immunhisztokémiával.
Hematológia-Transzfuziológia. Suppl. 47 (Suppl.), 31-32, 2014.

Kenyeres, A., Kovács, G., Barna, S., Bedekovics, J., Méhes, G., Illés, Á., Miltényi, Z.: Four malignancies: one patient.
Ann. Hematol. Oncol. 1 (3), 1-3, 2014.

Nyilas, R., Kiss, A., Reményi, G., Udvardy, M., Hevessy, Z., Bedekovics, J., Gergely, L., Illés, Á.: Hajas sejtes leukaemia hosszú története és kezelései.
Hematol. Transzfuziol. 47 (1), 36-37, 2014.

Selmeczi, A., Udvardy, M., Illés, Á., Telek, B., Kiss, A., Batár, P., Reményi, G., Szász, R., Ujj, Z., Márton, A., Ujfalusi, A., Hevessy, Z., Pinczés, L., Bedekovics, J., Rejtő, L.: Heveny myeloid leukaemiás betegeink kezelésével szerzett tapasztalataink (2007-2013).
Orv. Hetil. 155 (17), 653-658, 2014
Q3 Medicine (miscellaneous)

Bedekovics, J., Szeghalmy, S., Beke, L., Fazekas, A., Méhes, G.: Image analysis of platelet derived growth factor receptor-beta (PDGFRβ) expression to determine the grade and dynamics of myelofibrosis in bone marrow biopsy samples.

Cytometry B Clin. Cytom. 86 (5), 319-328, 2014.
Q3 Cell Biology
Q2 Histology
Q2 Pathology and Forensic Medicine
IF: 2.398

2013

Szeghalmy, S., Bedekovics, J., Méhes, G., Fazekas, A.: Digital Measurement of Myelofibrosis Associated Platelet Derived Growth Factor Receptor [Beta] (PDGFR [Beta]) Expression in Bone Marrow Biopsies.
J. Comput. Inform. Tech. 21 (1), 47-56, 2013.
Q4 Computer Science (miscellaneous)

Bedekovics, J., Rejtő, L., Telek, B., Kiss, A., Hevessy, Z., Ujfalusi, A., Méhes, G.: Identification of NPMc+ Acute Myeloid Leukemia in Bone Marrow Smears.
Appl. Immunohistochem. Mol. Morphol. 21 (1), 73-78, 2013.

Bedekovics, J., Kiss, A., Beke, L., Károlyi, K., Méhes, G.: Platelet derived growth factor receptor-beta (PDGFRβ) expression is limited to activated stromal cells in the bone marrow and shows a strong correlation with the grade of myelofibrosis.
Virchows Arch. 463 (1), 57-65, 2013.
Q3 Cell Biology
Q1 Medicine (miscellaneous)
Q2 Molecular Biology
Q1 Pathology and Forensic Medicine
IF: 2.56

2012

Szánthó, E., Bedekovics, J., Méhes, G., Kappelmayer, J., Hevessy, Z.: Nyirokcsomó-sejtszuszpenzió és perifériás vér párhuzamos vizsgálata nyolcszínű áramlási citometriával: esetbemutatás.
Hematol. Transzfuziol. 45 (Suppl.1), 45, 2012.

2011

Bedekovics, J., Rejtő, L., Telek, B., Kiss, A., Hevessy, Z., Ujfalusi, A., Méhes, G.: Az NPMc+ AML kimutatása és klinikai jellemzői.
Hematol. Transzfuziol. 44 23, 2011.

2010

Bedekovics, J., Hevessy, Z., Kappelmayer, J., Kiss, C., Csáthy, L.: Sejtfelszíni antigének expressziójának változása a gyermekkori akut lymphoblastos leukaemia kezelése alatt-négyszínű MRD-detektálással szerzett tapasztalataink.
Hematológia-Transzfuziológia. 43 (3), 215-224, 2010.

2009

Bedekovics, J., Rejtő, L., Udvardy, M., Ujfalusi, A., Hevessy, Z., Kappelmayer, J., Méhes, G.: Az NPMc+ akut myeloid leukaemia előfordulása és biológiai jellemzői.
Hematológia-Transzfuziológia. Suppl. 42 (Suppl.), 30, 2009.

Méhes, G., Bedekovics, J., Rejtő, L., Hevessy, Z., Kappelmayer, J., Ujfalusi, A., Kajtár, B., Udvardy, M.: Immunohistochemical demonstration of NPMc+ acute myeloid leukemia: biological and clinical features related to cytoplasmic nucleophosmin expression.
Virchows Arch. 455 (Suppl.), S260-S261, 2009.

Bedekovics, J., Rejtő, L., Telek, B., Udvardy, M., Ujfalusi, A., Oláh, É., Hevessy, Z., Kappelmayer, J., Kajtár, B., Méhes, G.: Mutáns nucleophosmin fehérje kimutatása akut myeloid leukaemiában: az NPMc+ AML biológiai és klinikai jellemzői.
Orv. Hetil. 150 (22), 1031-1035, 2009
Q3 Medicine (miscellaneous)

Projects

Memberships

2014- present European Society of Pathology - member

Hungarian delegate of ESP Trainees Subcomittee (2015-2017)

2011-present Hungarian Society of Pathology - member

2015-2017 founder and co-ordinator of Trainees Working Group of the Hungarian Society of Pathology

2021-present International Academy of Pathology Hungarian Division – member of board

Other Relevant Information

Scholarships and prizes:

12 months scholarship in the TÁMOP 4.2.4. A/2-11-1-2012-0001 „National Excellence Program – Elaborating and operating an inland student and researcher personal support system.” 2013/2014.

Jellinek Harry medallion for young researchers. A prize from the Hungarian Society of Pathology. 2013. October.

Award of the National Excellence Program. 2015 May.

Giordano Fellowship of the European Society of Pathology – 2019 (3 months in Hematopathology and Oncology Diagnostic Service at Addenbrooke's Hospital, Cambridge, United Kingdom)