

CURRICULUM VITAE

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Date of Birth: October 14, 1963, Vilnius, Lithuania
Nationality: Lithuania



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Education:

1987 M.D. Vilnius University, Faculty of Medicine
1992 Ph.D. Moscow Medical Academy
1997 Fellowship in Renal Pathology, Brigham and Women's Hospital, Harvard Medical School

Postdoctoral Training / Mobility:

09/94-10/94 Training in Renal Pathology, Department of Pathology, Lutheran General Hospital, University of Chicago, USA
11/94-03/95 Visiting Scientist, Renal Division, Brigham and Women's Hospital, Harvard Medical School, USA
01/99-4/99 Visiting Scientist, Brigham and Women's Hospital, Harvard Medical School, USA
01/99-4/99 Visiting Scientist, Brigham and Women's Hospital, Harvard Medical School, USA
3/11 Visiting Scientist, Francois Baclesse Cancer Centre, Caen, France
7/15-8/15 Visiting Scientist, TissueGnostics, Vienna, Austria
3/16 Visiting Scientist, Brigham and Women's Hospital, Harvard Medical School, USA
7/16 Visiting Scientist, AstraZeneca, Cambridge, UK
3/17-4/17 Visiting Scientist, AstraZeneca, Cambridge, UK
3/18 Visiting Scientist, UC Davis, Sacramento, CA, USA
8/18 Visiting Scientist, Marine Biological Laboratory, Woods Hole, MA, USA
8/19 Visiting Scientist, Marine Biological Laboratory, Woods Hole, MA, USA

Licensures and Certificates:

Licensed to practice pathology in Lithuania

Academic Appointments:

2016 - Head of Pathology, Forensic Medicine and Pharmacology Department, Vilnius University Faculty of Medicine
2007- Professor in Pathology, Vilnius University
2003-2006 Associate Professor in Pathology, Vilnius University
1997- Course Leader of Pathology, Vilnius University
1992-2003 Lecturer in Pathology, Vilnius University
1990-1991 Instructor in Pathology, Moscow Medical Academy
1987-1989 Instructor in Pathology, Vilnius University

Clinical Appointments:

2011- Director and Consultant Pathologist, National Center of Pathology, affiliate of Vilnius University Hospital Santaros Klinikos, Lithuania
 1993-2011 Director and Consultant Pathologist, National Center of Pathology, Ministry of Health, Lithuania

Other Professional Positions:

1993-2005 Consultant for Pathology, Ministry of Health, Lithuania

Major Committee Assignments:

2015- Member, Editorial Board, *Journal of Pathology Informatics*.
 2013-2014 Member, Working Group on Biomedical Research and Biobanking Law, Ministry of Health.
 2011-2012 Member, Working Group on Biomedical Research and Biobanking Regulation, Lithuanian Parliament.
 2010- Member, Editorial Board, *Diagnostic Pathology*.
 2009- Vice-Chair, Coordinating Committee for National Cervical Cancer Screening at the Ministry of Health.
 2007-2008 Chair, Committee on Laboratory Test Data Storage and Exchange, Ministry of Health.
 2007-2012 Member, Management Board, International Health Terminology Standards Development Organisation (IHTSDO, s. SNOMED SDO).
 2007-2009 Chair, Research and Innovation Committee, International Health Terminology Standards Development Organisation (IHTSDO, SNOMED International).
 2006-2007 Chair, Working Group for the Establishment of the SNOMED Standards Development Organization, Ministry of Health, Lithuania.
 2006-2011 Member, Coordinating Committee for the National E.Health Project.
 2005-2006 Member, Supervisory Committee for the National E.Health Project.
 2005-2007 Chair, Committee on Review of Pathologist Licencing Regulations.
 2004-2008 Member, Coordinating Committee for National Cervical Cancer Screening.
 2004-2009 Chair, Coordinating Council on Pathology Services Investment Program, Lithuania, Ministry of Health
 2003 Chair, Committee on Revision of Deceased Patient's Post-mortem Examination Authorisation Act, Ministry of Health
 2003 Member, Committee on Organization of Forensic Medicine Services, Ministry of Health together with other government institutions
 2002 Member, Committee on Healthcare Information Systems Development, Ministry of Health
 2001 Chair, Committee on Licensing Regulations for Pathology Services, Ministry of Health
 2001 Member, Committee on Pathology Services Reimbursement System, Ministry of Health
 2000-2001 Member, Academic Commission of the Medical Faculty of Vilnius University
 1999-2000 Chair, Committee on Development of the National Quality Requirements for Pathology Services, Ministry of Health
 1999-2000 Chair, Committee on Development of Pathology Reimbursement System, Ministry of Health
 1999-2003 Chair, Coordinating council on Pathology Equipment Renovation Program, Ministry of Health
 1998 Chair, Committee on Death Certificate Regulations, Ministry of Health
 1998 Member, Committee on Pathologist Licensure Regulation, Ministry of Health
 1994-1995 Chair, Committee on Pathology Reimbursement, Ministry of Health

Memberships, Offices, Committee Assignments in Professional Societies:

2014- Chair, Biobank-LT – Lithuanian Research Biobank Consortium.
 2013- Chair, SVIBI.LT – Lithuanian Association of Health Informatics and Bioinformatics.
 2011- Board Member, International Academy of Digital Pathology.
 2011- Board Member, Association of Santara Valley
 2010 Chair of the Organizing Committee, 10th European Congress of Digital Pathology, Vilnius, Lithuania
 2008- Board Member, Association of Innovative Medicine Technologies and Biopharmacy
 2003-2018 President, Association of the Santariskes Medical Institutions
 2003- Vice-Chairman, Lithuanian Society of Pathology
 2001-2007 Vice-President, Lithuanian Nephrology, Dialysis ant Transplant Association

1998-2008	Affiliate Member, College of American Pathologists
1998-2000	Chairman, Vilnius Society of Pathology
1996-2003	Member, International Society of Nephrology
2018-	Member, European Society for Digital & Integrative Pathology
1995-1997, 2013-	European Society of Pathology
1994-1996	Member, EDTA/ERA
1993-1995, 1999-	Advisor, Students' Scientific Society, Faculty of Medicine, Vilnius University
1992-	Member, Lithuanian Association of Nephrology, Dialysis and Transplantation
1987-	Member, Lithuanian Society of Pathology

Presentations:

1. *Immunogradient: lymphocyte density profiles across the tumour-host interface*. Spatial Biology: Revolutionizing Tissue Imaging and Analysis using Spatial profiling (*webinar*), 2021.
2. *Intratumoral heterogeneity and immune response in breast carcinoma*. 17th European Congress on Digital Pathology (ECDP), 2021.
3. *Pathology image analytics: going beyond visual*. Image Analysis Training School (IATS), Vienna, Austria, 2020.
4. *Mining HALO for advanced spatial analytic*. 6th Digital Pathology & AI Congress, London, JK, 2019.
5. *Histological findings in Fabry patients: interesting cases*. 1st Baltics Fabry Multidisciplinary Team (MDT) meeting, Vilnius, Lithuania, 2019.
6. *The Immunogradient of CD8+ cell density in the tumour-stroma interface zone predicts overall survival of patients with hormone receptor-positive invasive ductal breast carcinoma*. 31st European Congress of Pathology, Nice, France, 2019.
7. *Prognostic value of CD8 Immunogradient indicators in tumour-stroma interface zone of colorectal cancer*. 31st European Congress of Pathology, Nice, France, 2019.
8. *Deep Context Pathology for Precision Medicine*. 4th International Conference on Digital Pathology, Zurich, Switzerland, 2019.
9. *Automated tumour-stroma interface zone CD8+ Immunogradient indicators predict overall survival of the patients with breast and colorectal carcinoma*. Immuno-Oncology Summit, Boston, USA, 2019.
10. *Benefits of digital pathology*. 15th International Congress for Stereology and Image Analysis, Aarhus, Denmark, 2019.
11. *Pathology image analytics: going beyond visual*. Image Analysis Training School (IATS), Vienna, Austria, 2019.
12. *Deciphering tissue microenvironment with imaging and analytics*. 15th European Congress on Digital Pathology, Warwick, UK, 2019.
13. *Digital Pathology Analytics for Biomarker Assessment*. Cancer Immunotherapy Workshop, Riga, Latvia, 2018.
14. *Tissue Pathology, Mining Deeper with Imaging and Analytics*. 162nd ICB Seminar, Warsaw, Poland, 2018.
15. *Getting Pathology Pixels to Work*. 14th European Congress of Digital Pathology, Helsinki, Finland, 2018.
16. *Tissue Pathology Analytics: Digging Out More*. UC Davis, Pathology Department, Sacramento CA, USA, 2018
17. *Reading IHC Slides: Can Machines Do Better Than Humans?* 10th Joint Meeting of the British Division of the International Academy of Pathology and the Pathological Society of Great Britain & Ireland, Belfast, UK, 2017.
18. *Digital Pathology - Getting Online*. 24th German Baltic Symposium and IAP Baltic Division meeting, Riga, Latvia, 2017.
19. *HPV and cancer*. IncoNet EaP Twinning Grants Project, New Vision University, Tbilisi, Georgia, 2016.
20. *Pathology Online - Ready To Use?* Leeds University Hospital, Department of Pathology, UK, 2017.
21. *Pathology Online - Ready To Use?* 4th Nordic Symposium on Digital Pathology, Linkoping, Sweden, 2016.
22. *Comprehensive Immunohistochemistry: Digital, Analytical and Integrated*. XXXI International Congress of the International Academy of Pathology and 28th Congress of the European Society of Pathology, Cologne, Germany, 2016.
23. *Comprehensive Immunohistochemistry: Digital, Analytical, Integrated*. AstraZeneca, Cambridge, UK, 2016.
24. *Comprehensive Immunohistochemistry: Digital, Analytical, Integrated*. Brigham and Women's Hospital, Department of Pathology, MA, USA, 2016.
25. *Automated Image Analysis of HER2 FISH Enables New Definitions of Genetic Heterogeneity in Breast Cancer Tissue*. 13th European Congress on Digital Pathology, Berlin, Germany, 2016.

26. Poster: *Automated Image Analysis of HER2 FISH in Breast Cancer Tissue to Support Cell Heterogeneity*, 3rd Nordic Symposium on Digital Pathology, Linköping, Sweden, 2015.
27. Poster: *Comprehensive Ki67 Immunohistochemistry in Breast Cancer Based on Hexagonal Tiling of Digital Image Analysis Data*. 22nd International Molecular Medicine Tri-Conference, San Francisco, USA, 2015.
28. *Digital Immunohistochemistry for Tissue-Based Diagnosis and Research: What Could and Should be Done?* Digital Pathology Congress, London, UK, 2014.
29. *Digital Immunohistochemistry to Retrieve Novel Information on Biomarker Expression*. 26th European Congress of Pathology, London, UK, 2014.
30. *Digital Immunohistochemistry Platform for the Staining Variation Monitoring Based on Integration of Image and Statistical Analyses with Laboratory Information System*. 12th European Congress on Digital Pathology, Paris France, 2014.
31. *Digital Immunohistochemistry Wizard: Image Analysis-Assisted Stereology Tool to Produce Reference Data Set for Calibration and Quality Control*. 12th European Congress on Digital Pathology), Paris, France, 2014.
32. *Automated Image Analysis Enables Accurate Enumeration of the Ki-67 Labeling Index of Breast Cancer*. 25th European Congress of Pathology, Lisbon, Portugal, 2013.
33. Poster: *A methodology to ensure and improve accuracy of Ki67 digital immunohistochemistry analysis in breast cancer tissue*. Advances in Breast Cancer Research: Genetics, Biology, and Clinical Application, San Antonio, CA, USA, 2013.
34. *Digital Image Analysis for Better Accuracy in Pathology*. XXIX Congress of International Academy of Pathology, Cape Town, South African Republic, 2012.
35. *Perspectives of Routine Tissue-Based Diagnosis: Lean and Digital*. 24th European Congress of Pathology, Prague, Czech Republic, 2012.
36. *Digital Immunohistochemistry: New Horizons and Practical Solutions in Breast Cancer Pathology*. 11th European Congress on Telepathology and Virtual Microscopy, Venice, Italy, 2012.
37. *Inter-Observer Variability and Evaluation of Automated Image Analysis Tools*. 23rd European Congress of Pathology, Helsinki, Finland, 2011.
38. *Digital Image Analysis in Pathology: Benefits and Obligations*, 1st Congress of International Academy of Digital Pathology, Quebec, Canada, 2011.
39. *The Results of Automated Image Analysis Workshop at the 10th European Congress on Telepathology and 4th International Congress on Virtual Microscopy*, Pathology Visions, San Diego, CA, USA 2010.

Projects, participation / leadership:

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| 2021-2021 | Participant, <i>Artificial intelligence-driven prediction of BCG immunotherapy response in patients with non-muscle invasive papillary urothelial carcinoma</i> , Lithuanian Research Council, grant P-MIP-21-249. |
| 2018-2021 | Project leader, <i>Deep-Context Tissue Analytics for Integrated Pathology Modeling in Tumors and Kidney Allografts</i> , Lithuanian Research Council/European Social Fund, Global Grant (598,348 Eur) |
| 2015-2018 | Project Leader, <i>Novel Biomarkers for Individualized Therapy of Colon Cancer: Proteomics, microRNomics and Clinics</i> , Lithuanian Research Council (199,990 Eur) |
| 2013-2017 | Participant, <i>Academia and Industry Collaboration for Digital Pathology (AIDPATH)</i> , FP7-PEOPLE-2013-IAPP, Marie Curie Actions-Industry-Academia Partnerships and Pathways (IAPP) (Total the consortium: 3,021,689 Eur) |
| 2013-2015 | Project leader, <i>Comprehensive Biomarker Intra-Tumour Heterogeneity Evaluation by Digital Immunohistochemistry Image Analysis</i> , Lithuanian Research Council/European Social Fund, Global Grant (264,739 Eur). |
| 2012-2014 | Senior researcher, <i>Complex Molecular Biomarkers for Prostate Cancer</i> , Lithuanian Research Council (222,515 Eur) |
| 2010 | Project leader, <i>Human Biological Resource Center</i> (a comprehensive description of the infrastructure for the Lithuanian Research Council) (6,371 Eur). |
| 2010–2011 | Project leader, <i>National Centre of Pathology Building Renovation, Increasing Energy Efficiency</i> , project funded by European Union structural funds (988,744 Eur). |

- 2009–2011 *Santariškes Medical Staff Training*, funded by European Union structural funds, SMĪA (Grant: 2009–2012 Santara Valley Education Program (establishment of Joint Innovative Medicine Centre) (Total - 14,770,620 Eur, NCP – 810,936 Eur)
- 2009–2010 *Development of Merkel Cell Polyoma Virus Diagnostic Tools*, Lithuanian Research Council (23,169 Eur)
- 2008–2010 Project leader, *SNOMED CT Technology Platform Development for Lithuania*, National investment program (724,050 Eur)
- 2008-2010 Project leader, *National Centre of Pathology Capacity Building in Early Cancer Diagnostics*, European Economic Area and Norwegian Financial Mechanisms, Oslo University Hospital (426,067 Eur).
- 2007-2010 *Telepathology Network in Europe* (COST IC0604), with KTU (Department of Computer Science), 20 countries, 37 partners (28,962 Eur)
- 2007–2009 *Analysis of Prognostic Factors of Precancerous Cervical Pathology Using Microarray Technologies* (10,426 Eur)
- 2007–2009 *European Pathology Assessment & Learning System* (EUROPALS) 15 countries, 30 partners (European Pathology Departments and Institutes). Development of European Pathologists Certification and Learning System (11,584 Eur)
- 2007-2009 *Molecular Breast and Prostate Cancer Markers in Determining the Value of the Disease Process and Treatment Characteristics*, Lithuanian Research Council (Grant: 66,033 Eur)
- 2005–2008 *Medical Technologies Physical and Nanophotonics Research and Studies Centre*, VUOI, VUEKMI, VU, VU MF, VU FF, BMTI, VULSK, VU IMI, KMU, KMUK, KMU BTC (Grant: 1,894,939 Eur)
- 2005-2007 *Creation of Intracranial Aneurysms Models Angiographic Studies*
- 2005-2007 *Fabry Disease on Dialysis, Lithuania Sample Survey Among Men*, LNDTA
- 2007–2009 *Creation of Prostate and Breast Cancer Molecular Markers System*, VU, VUOI, VULSK, JSC Fermentas, Toronto Mental Health Epigenetics Laboratory, Canada
- 2006–2009 *Detection of Cervical Precancerous Changes by PAPSPIN Method*, VUOI, “ThermoShandon“ Ltd.
- 1998-2000 *Convergence of European Renal Transplant Pathology Assessment Procedures*, CERTPAP, EU

Self-report of teaching:

Vilnius University, Faculty of Medicine:

- 2007- Pathology for Medical, Odontology, Medical Biology, and Public Health Students, Professor and Course Leader, 300 Students
- 1997- Pathology for Medical, Odontology, Medical Biology, and Public Health Students, Lecturer and Course Leader, 150 Students,
- 1993 Kidney Biopsy Diagnosis Course, Leader, 5-6 Pathologists, 90 hours/year
- 1992- Autopsy and Biopsy Course, Section Leader, 36 5th Year Medical Students, 54 hours/year
- 1992-1995 Pathology of Kidney Diseases, Lecturer, 150 Medical Students, 2 hours/year
- 1992- Pathology, Instructor, 60 Medical Students (sections), 48 hours/year
- 1987-1989 Pathology, Instructor, 12 Medical Students (section), 48 hours/year

Moscow Medical Academy:

- 1990-1991 Pathology, Instructor, 14 Medical Students (section), 48 hours/year

Harvard Medical School:

Seminars in Renal Pathology for medical students, pathology residents, nephrology residents and fellows, house officers

BIBLIOGRAPHY

- <https://publons.com/researcher/1423794/arvydas-laurinavicius/>
<https://orcid.org/0000-0001-9232-1730>
https://www.researchgate.net/profile/Arvydas_Laurinavicius

1. Yousif, Mustafa; van Diest, Paul J; **Laurinavičius, Arvydas**; Rimm, David; van der Laak, Jeroen; Madabhushi, Anant; Schnitt, Stuart; Pantanowitz, Liron. Artificial intelligence applied to breast pathology // *Virchows archiv : an international journal of pathology*. New York : Springer. ISSN 0945-6317. eISSN 1432-2307. 2022, vol. 480, iss. 1, p. 191-209. DOI: [10.1007/s00428-021-03213-3](https://doi.org/10.1007/s00428-021-03213-3). [DB: PubMed, Scopus, Science Citation Index Expanded (Web of Science)]
2. Čerkauskaitė, Agnė; Savige, Judy; Janonytė, Karolina; Jeremičiūtė, Ieva; Miglinas, Marius; Kazėnaitė, Edita; **Laurinavičius, Arvydas**; Strupaitė-Šileikienė, Rasa; Vainutienė, Vija; Burnytė, Birutė; Jankauskienė, Augustina; Rolfs, Arndt; Bauer, Peter; Schröder, Sabine; Čerkauskienė, Rimantė. Identification of 27 novel variants in genes COL4A3, COL4A4, and COL4A5 in Lithuanian families with Alport syndrome // *Frontiers in medicine*. Lausanne : Frontiers Media SA. eISSN 2296-858X. 2022, vol. 9, art. no. 859521, p. [1-12]. DOI: [10.3389/fmed.2022.859521](https://doi.org/10.3389/fmed.2022.859521). [DB: Embase, Scopus, Science Citation Index Expanded (Web of Science)]
3. **Laurinavičius, Arvydas**; Rasmusson, Allan; Nestarenkaitė, Aušrinė; Žilėnaitė, Dovilė; Augulis, Renaldas. Automated tumour-stroma interface zone detection for anti-tumour response assessment by immunogradient indicators. EP3953899A1. 2022-02-16. [1] p. Prieiga per internetą: <https://worldwide.espacenet.com/patent/search?q=pn%3DEP3953899A1>.
4. Ažukaitis, Karolis; Besusparis, Justinas; **Laurinavičius, Arvydas**; Jankauskienė, Augustina. Case report: SARS-CoV-2 associated acute interstitial nephritis in an adolescent // *Frontiers in pediatrics*. Lausanne : Frontiers Media SA. ISSN 2296-2360. 2022, first published online, p. [1-6]. DOI: [10.3389/fped.2022.861539.s001](https://doi.org/10.3389/fped.2022.861539.s001). [DB: PubMed, Scopus, Science Citation Index Expanded (Web of Science)]
5. Acs, Balazs; Leung, Samuel C. Y.; Kidwell, Kelley M.; Arun, Indu; Augulis, Renaldas; Badve, Sunil S.; Bai, Yalai; Bane, Anita L.; Bartlett, John M. S.; Bayani, Jane; Bigras, Gilbert; Blank, Annika; Buikema, Henk; Chang, Martin C.; Dietz, Robin L.; Dodson, Andrew; Fineberg, Susan; Focke, Cornelia M.; Gao, Dongxia; Gown, Allen M.; Gutierrez, Carolina; Hartman, Johan; Kos, Zuzana; Lænkholm, Anne-Vibeke; **Laurinavičius, Arvydas**; Levenson, Richard M.; Mahboubi-Ardakani, Rustin; Mastropasqua, Mauro G.; Nofech-Mozes, Sharon; Osborne, C. Kent; Penault-Llorca, Frédérique M.; Piper, Tammy; Quintayo, Mary Anne; Rau, Tilman T.; Reinhard, Stefan; Robertson, Stephanie; Salgado, Roberto; Sugie, Tomoharu; van der Vegt, Bert; Viale, Giuseppe; Zabaglo, Lila A.; Hayes, Daniel F.; Dowsett, Mitch; Nielsen, Torsten O.; Rimm, David L.; McShane, Lisa M.; Nielsen, Torsten; Leung, Samuel; Borgquist, Signe; Chan, Angela; Denkert, Carsten; Ehinger, Anna; Ellis, Matthew; Flowers, Margaret; Galderisi, Chad; Gholap, Abhi; Hartman, Douglas J.; Hugh, Judith C.; Jadhav, Anagha; Kornaga, Elizabeth N.; Kreipe, Hans; Levenson, Richard; Mastropasqua, Mauro; Moriya, Takuya; Pan, Hongchao; Pantanowitz, Liron; Neri, Ernesta Paola; Polley, Mei-Yin; Ruan, Jason; Sakatani, Takashi; Shepherd, Lois; Smith, Ian; Sparano, Joseph; Spears, Melanie; Srinivasan, Malini; Starczynski, Jane; Todd, Austin; Virk, Shakeel; Wang, Yihong; Yang, Hua; Zhang, Zhiwei; Zlobec, Inti. Systematically higher Ki67 scores on core biopsy samples compared to corresponding resection specimen in breast cancer: a multi-operator and multi-institutional study // *Modern pathology*. London : Springer Science and Business Media LLC. ISSN 0893-3952. eISSN 1530-0285. 2022, first published online, p. [1-8]. DOI: [10.1038/s41379-022-01104-9](https://doi.org/10.1038/s41379-022-01104-9). [DB: MEDLINE, Embase, Scopus, Science Citation Index Expanded (Web of Science)]
6. Radziuvienė G, Rasmusson A, Augulis R, Grineviciute RB, Zilenaite D, Laurinaviciene A, Ostapenko V and **Laurinavicius A** (2021) Intratumoral Heterogeneity and Immune Response Indicators to Predict Overall Survival in a Retrospective Study of HER2-Borderline (IHC 2+) Breast Cancer Patients. *Front. Oncol.* 11:774088. doi: 10.3389/fonc.2021.774088
7. **Laurinavicius A**, Rasmusson A, Plancoulaine B, Shribak M, Levenson R. Machine-Learning-Based Evaluation of Intratumoral Heterogeneity and Tumor-Stroma Interface for Clinical Guidance. *Am J Pathol.* 2021 Apr 22:S0002-9440(21)00165-6. doi: 10.1016/j.ajpath.2021.04.008. Epub ahead of print. PMID: 33895120.
8. Vitkunaite A, Laurinaviciene A, Plancoulaine B, Rasmusson A, Levenson R, Shribak M, Laurinavicius A: Intranuclear birefringent inclusions in paraffin sections by polychromatic polarization Microscopy. *Scientific Reports* 2021 Mar 18;11(1):6275, doi: 10.1038/s41598-021-85667-8.
9. Morkūnas M, Žilėnaitė D, Laurinavičienė A, Treigys P, **Laurinavičius A**: Tumor collagen framework from bright-field histology images predicts overall survival of breast carcinoma patients. *Scientific reports*, 2021, 11(1):1-13. DOI: [10.1038/s41598-021-94862-6](https://doi.org/10.1038/s41598-021-94862-6).
10. Baušys A, Senina V, Lukšta M, Anglickienė G, Molnikaitė G, Baušys B, Rybakovas A, Baltruškevičienė E, **Laurinavičius A**, Poškus T, Baušys R, Šeinin D, Strupas K: Histologic lymph nodes regression after preoperative

- chemotherapy as prognostic factor in non-metastatic advanced gastric adenocarcinoma. *Journal of cancer*, 2021, 12(6):1669-1677. DOI: [10.7150/jca.49673](https://doi.org/10.7150/jca.49673).
11. Mastavičiūtė A, Kilaitė J, Petroška D, Laurinavičius A, Tamulaitienė M, Alekna V: Associations between physical function, bone density, muscle mass and muscle morphology in older men with sarcopenia: a pilot study. *Medicina*, 2021, 57(2):1-10, DOI: [10.3390/medicina57020156](https://doi.org/10.3390/medicina57020156).
 12. Dulskas A, Poškus T, Kildušienė I, Patašius A, Stulpinas R, Laurinavičius A, Mašalaitė L, Milaknytė G, Stundienė I, Vencevičienė L, Strupas K, Samalavičius NE, Smailytė G: National colorectal cancer screening program in Lithuania: description of the 5-year performance on population level. *Cancers*, 2021, 13(5):1-9, DOI: [10.3390/cancers13051129](https://doi.org/10.3390/cancers13051129).
 13. Vitkunaite A, Laurinaviciene A, Plancoulaine B, Rasmusson A, Levenson R, Shribak M, **Laurinavicius A**. Intranuclear birefringent inclusions in paraffin sections by polychromatic polarization microscopy. *Sci Rep*. 2021 Mar 18;11(1):6275. doi: 10.1038/s41598-021-85667-8. PMID: 33737593; PMCID: PMC7973427.
 14. Budginaitė E, Morkūnas M, **Laurinavičius A**, Treigys P: Deep learning model for cell nuclei segmentation and lymphocyte identification in whole slide histology images//*Informatika*. Vilnius: Vilniaus universiteto leidykla. ISSN 0868-4952. eISSN 1822-8844. 2021, 0(0):1-18, DOI: 10.15388/20-INFOR442
 15. Nestarenkaite A, Fadhil W, Rasmusson A, Susanti S, Hadjimichael E, Laurinaviciene A, Ilyas M, **Laurinavicius A**. Immuno-Interface Score to Predict Outcome in Colorectal Cancer Independent of Microsatellite Instability Status. *Cancers (Basel)*. 2020 Oct 9;12(10):2902.
 16. Sablinskas V, Bandzeviciute R, Velicka M, Ceponkus J, Urboniene V, Jankevicius F, **Laurinavicius A**, Dasevicius D, Steiner G: Fiber attenuated total reflection infrared spectroscopy of kidney tissue during live surgery. *Journal of biophotonics*, 2020, 13(7):1-14, DOI: [10.1002/jbio.202000018](https://doi.org/10.1002/jbio.202000018).
 17. A. Gryguc, J. Maciulaitis, L. Mickevicius, **A. Laurinavicius**, N. Sutkeviciene, I.A. Bumblyte, R. Maciulaitis. Placenta derived stem cells for acute kidney injury treatment in a xenogeneic preclinical model. *Cytotherapy*, Volume 22, Issue 5, Supplement, 2020, Page S203,ISSN 1465-3249
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 19. Rasmusson, A., Zilenaite, D., Nestarenkaite, A., Augulis, R., Laurinaviciene, A., Ostapenko, V., Poskus, T., & **Laurinavicius, A.** (2020). Immunogradient Indicators for Antitumor Response Assessment by Automated Tumor-Stroma Interface Zone Detection. *The American journal of pathology*, S0002-9440(20)30126-7 ;
 20. Gasiule S, Dreize N, Kaupinis A, Razanskas R, Ciupas L, Stankevicius V, Kapustina Z, **Laurinavicius A**, Valius M, Vilkaitis G: Molecular Insights into miRNA-Driven Resistance to 5-Fluorouracil and Oxaliplatin Chemotherapy: miR-23b Modulates the Epithelial-Mesenchymal Transition of Colorectal Cancer Cells. *Journal of Clinical Medicine*, 2019, 8(12), 2115.
 21. Joseph J, Roudier MP, Narayanan PL, Augulis R, Ros VR, Pritchard A, Gerrard J, **Laurinavicius A**, Harrington EA, Barrett JC, Howat WJ: Proliferation Tumour Marker Network (PTM-NET) for the identification of tumour region in Ki67 stained breast cancer whole slide images. *Sci Rep*. 2019 Sep 6;9(1):12845. doi: 10.1038/s41598-019-49139-4.
 22. Abdelsamea MM, Grineviciute RB, Besusparis J, Cham S, Pitiot A, **Laurinavicius A**, Ilyas M: Tumour Parcellation and Quantification (TuPaQ): a tool for refining biomarker analysis through rapid and automated segmentation of tumour epithelium. *Histopathology*, 2019,doi: 10.1111/his.13838.
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