

## CURRICULUM VITAE



**Name:** Arvydas LAURINAVICIUS  
**Place of Birth:** Vilnius, Lithuania  
**Date of Birth:** October 14, 1963

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### Education:

1992      Ph.D. Moscow Medical Academy (Medicine)  
1987      M.D. Vilnius University, Faculty of Medicine (Medicine)

### Postdoctoral Training:

01/99-4/99      Fellowship in Renal Pathology, Brigham and Women's Hospital, Harvard Medical School, USA  
01/96-06/97      Fellowship in Renal Pathology, Brigham and Women's Hospital, Harvard Medical School, USA  
11/94-03/95      Visiting Scientist, Renal Division, Brigham and Women's Hospital, Harvard Medical School, USA  
09/94-10/94      Training in Renal Pathology, Department of Pathology, Lutheran General Hospital, University of Chicago, 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 Santariskiu Clinics, 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

### Awards and Honours:

1995, 1999      International Fellowship Training Award, International Society of Nephrology

1993	Travel Grant for the XIIth International Congress of Nephrology, International Society of Nephrology
1987	Graduation from Vilnius University "With Distinction"
1981	Graduation from Vilnius 21st Secondary School "With Gold Medal"

### Major Committee Assignments:

2015-	Member, Editorial Board, "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 Law, 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, s. SNOMED SDO).
2006-2007	Chair, Work 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 Licensing 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 Licence 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 Valey
2008-	Vice-President, Association of Innovative Medicine Technologies and Biopharmacy
2003-	President, Association of the Santariskes Medical Institutions
2003-	Vice-Chairman, Lithuanian Society of Pathology
2001-2007	Vice-President, Lithuanian Nephrology, Dialysis and Transplant Association
1998-	Affiliate Member, College of American Pathologists
1998-	Chairman, Vilnius Society of Pathology
1996-	Member, International Society of Nephrology
1995-1997, 2013-	Member, European Society of Pathology
1994-1996	Member, EDTA/ERA
1993-1995, 1999-	Advisor, Students' Scientific Society, Faculty of Medicine, Vilnius University
1993-1997	Vice-Chair, Vilnius Society of Pathology
1992-	Member, Lithuanian Association of Nephrology, Dialysis and Transplantation
1987-	Member, Lithuanian Society of Pathology

## PRESENTATIONS:

1. "Pathology online - the benefits to go for", 29th Congress of the European Society of Pathology, Amsterdam, Netherlands, 2017.
2. "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.
3. "Digital Pathology - Getting Online", 24<sup>th</sup> German Baltic Symposium and IAP Baltic Division meeting, Riga Latvia, 2017.
4. "HPV and cancer". New Vision University, Tbilisi (Georgia), 2016, IncoNet EaP Twinning Grants Project).
5. "Pathology Online - Ready To Use?", Leeds University Hospital Department of Pathology, UK, 2017.
6. "Pathology Online - Ready To Use?", 4<sup>th</sup> Nordic Symposium on Digital Pathology, Linköping, Sweden, 2016.
7. "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.
8. "Comprehensive Immunohistochemistry: Digital, Analytical, Integrated", AstraZeneca, Cambridge, UK, 2016.
9. "Comprehensive Immunohistochemistry: Digital, Analytical, Integrated", Brigham and Women's Hospital Department of Pathology, MA, USA, 2016.
10. "Automated Image Analysis of HER2 FISH Enables New Definitions of Genetic Heterogeneity in Breast Cancer Tissue A-221", 13<sup>th</sup> European Congress on Digital Pathology, Berlin, Germany, 2016 (AIDPATH).
11. Poster and oral presentation "Automated Image Analysis of HER2 FISH in Breast Cancer Tissue to Support Cell Heterogeneity", 3<sup>rd</sup> Nordic Symposium on Digital Pathology, Linköping, Sweden, 2015 (AIDPATH).
12. "Challenging case of Nephrotic Syndrome", International Scientific Conference "Lysosomal Storage Diseases", Vilnius, 2015.
13. Poster "Comprehensive Ki67 Immunohistochemistry in Breast Cancer Based on Hexagonal Tiling of Digital Image Analysis Data", 22<sup>nd</sup> International Molecular Medicine Tri-Conference, San Francisco, USA, 2015 (Global Grant).
14. "Digital Immunohistochemistry for Tissue-Based Diagnosis and Research: What Could and Should be Done?", Digital Pathology Congress, London, UK, 2014 (Global Grant).
15. "Digital Immunohistochemistry to Retrieve Novel Information on Biomarker Expression", 26<sup>th</sup> European Congress of Pathology, London, UK, 2014 (Global Grant).
16. "Digital Immunohistochemistry Platform for the Staining Variation Monitoring Based on Integration of Image and Statistical Analyses with Laboratory Information System", 12<sup>th</sup> European Congress on Digital Pathology, Paris (France), 2014 m. (Global Grant).
17. "Digital Immunohistochemistry Wizard: Image Analysis-Assisted Stereology Tool to Produce Reference Data Set for Calibration and Quality Control", 12<sup>th</sup> European Congress on Digital Pathology, Paris (France), 2014 m. (Global Grant).
18. "Automated Image Analysis Enables Accurate Enumeration of the Ki-67 Labeling Index of Breast Cancer", 25<sup>th</sup> European Congress of Pathology, Lisbon (Portugal), 2013 m. (Global Grant).
19. 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 Diego, California, 2013 (Global Grant).
20. "Digital Image Analysis for Better Accuracy in Pathology". XXIX Congress of International Academy of Pathology, Cape Town, South African Republic, 2012.
21. "Perspectives of Routine Tissue-Based Diagnosis: Lean and Digital", 24th European Congress of Pathology, Prague, Czech Republic, 2012.
22. "Digital Immunohistochemistry: New Horizons and Practical Solutions in Breast Cancer Pathology", 11<sup>th</sup> European Congress on Telepathology and Virtual Microscopy, Venice, Italy, 2012;
23. "Inter-Observer Variability and Evaluation of Automated Image Analysis Tools". 23<sup>rd</sup> European Congress of Pathology, Helsinki, Finland, 2011.
24. "Digital Pathology Comes of Age", 1<sup>st</sup> Congress of International Academy of Digital Pathology, Quebec, Canada, 2011.

## **SELF REPORT OF TEACHING:**

### **Vilnius University, Faculty of Medicine:**

2007-	Pathology for Medical, Odontology, Medical Biology, and Public Health Students, Professor and Course Leader, 200 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
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### **Harvard Medical School:**

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

### **Projects, participation / leadership:**

2015-2018	Project Leader, “Novel biomarkers for individualized therapy of colon cancer: proteomics, microRNomics and clinics”, Lithuanian Research Council (Grant: 199,990 Eur)
2013-2017	Participant, Academia and Industry Collaboration for Digital Pathology (AIDPATH), FP7-PEOPLE-2013-IAPP, Marie Curie Actions— Industry-Academia Partnerships and Pathways (IAPP) (Grant: 3,021,689 Eur)
2013-2015	Project leader, “Comprehensive Biomarker Intra-Tumour Heterogeneity Evaluation By Digital Immunohistochemistry Image Analysis“, Lithuanian Research Council/European Social Fund, Global Grant (Grant: 264,739 Eur).
2012-2014	Senior researcher, “Complex Molecular Biomarkers for Prostate Cancer“, Lithuanian Research Council (Grant: 222,515 Eur)
2010	Project leader, “Human Biological Resource Center“ (produced a comprehensive description of the infrastructure for the Lithuanian Research Council) (Grant: 6,371 Eur).
2010–2011	“National Centre of Pathology Building Renovation, Increasing Energy Efficiency“, project funded by European Union structural funds (Grant: 988,744 Eur).
2009–2011	“Santariškes Medical Staff Training“, project funded by European Union structural funds, SMĪA (Grant:
2009–2012	Santara Valley Education Program (establishment of Joint Innovative Medicine Centre) (Total Grant: 14,770,620 Eur, NCP – 810,936 Eur)
2009–2010	“Development of Merkel Cell Polyoma Virus Diagnostic Tools“, Lithuanian Research Council (Grant: 23,169 Eur)
2008–2010	Project leader, “SNOMED CT Technological Platform Creation for Lithuania“, Ministry Of Health Of The Republic Of Lithuania, state 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, The Oslo University Hospital (Grant: 426,067 Eur).
2007-2010	“Telepathology Network in Europe“ (COST IC0604), with KTU (Department of Computer Science), 20 countries, 37 partners (Grant: 28,962 Eur)
2007–2009	“Analysis of Prognostic Factors of Precancerous Cervical Pathology Using Microarray Technologies“ (Grant: 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 (Grant: 11,584 Eur)
2008	“New Diagnostic Techniques: Instrumental, Serological and Tissue Markers in Patients with Systemic Vascular search ”
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“ and “ Medical Optical Technology and Nanophotonics Education and Distance Learning Center ”, 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 GMF, 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“

## BIBLIOGRAPHY

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<https://scholar.google.com/citations?hl=en&user=MXmMg0AAAAJ>

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- Juozapaite S, Cerkauskienė R, Laurinavicius A, Jankauskienė A: The impact of IgM deposits on the outcome of Nephrotic syndrome in children. *BMC Nephrology*, 2017, 18(260).
- Demidenko R, Daniunaite K, Bakavicius A, Sabaliauskaitė R, Skeberlyte A, Petroska D, **Laurinavicius A**, Jankevicius F, Lazutka J R, Jarmalaite S: Decreased Expression of MT1E is a Potential Biomarker of Prostate Cancer Progression. *Oncotarget*, 2017, 8(37): 61709-61718.
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- Radziuvienė G, Rasmusson A, Augulis R, Lesciute-Krilaviciene D, Laurinaviciene A, Clim E, **Laurinavicius A**: Automated Image Analysis of HER2 Fluorescence In Situ Hybridization to Refine Definitions of Genetic Heterogeneity in Breast Cancer Tissue. *BioMed Research International*, 2017.
- Barisoni L, Gimpel Ch, Kain R, **Laurinavicius A**, Bueno G, Zeng C, Liu Zh, Schaefer F, Kretzler M, Holzman LB, Hewitt SM: Digital pathology imaging as a novel platform for standardization and globalization of quantitative nephropathology. *Clin Kidney J* 2017, 10(2): 176-187.
- Besusparis J, Plancoulaine B, Rasmusson A, Augulis R, Green AR, Ellis IO, Laurinaviciene A, Herlin P, **Laurinavicius A**: Impact of tissue sampling on accuracy of Ki67 immunohistochemistry evaluation in breast cancer. *Diagn Pathol* 2016, 11(1):82.
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- Laurinavicius A**, Plancoulaine B, Rasmusson A, Besusparis J, Augulis R, Meskauskas R, Herlin P, Laurinaviciene A, Abdelhadi Muftah AA, Miligy I, Aleskandarany MA, Rakha EA, Green AR, Ellis IO. Bimodality of intratumor Ki67 expression is an independent prognostic factor of overall survival in patients with invasive breast carcinoma. *Virchows Archiv* 2016, 1-10.
- Plancoulaine B, Laurinaviciene A, Herlin P, Besusparis J, Meskauskas R, Baltrusaityte I, Iqbal Y, **Laurinavicius A**: A methodology for comprehensive breast cancer ki67 labeling index with intra-tumor heterogeneity appraisal based on hexagonal tiling of digital image analysis data. *Virchows Arch* 2015.
- Laurinavicius A**, Green AR, Laurinaviciene A, Smailyte G, Ostapenko V, Meskauskas R, Ellis IO. Ki67/SATB1 ratio is an independent prognostic factor of overall survival in patients with early hormone receptor-positive invasive ductal breast carcinoma. *Oncotarget* 2015.
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15. Serenaite I, Daniunaite K, Jankevicius F, **Laurinavicius A**, Petroska D, Lazutka JR, Jarmalaite S: Heterogeneity of DNA methylation in multifocal prostate cancer. *Virchows Arch* 2015, 466(1):53-59.
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22. Daunoravicius D, Besusparis J, Zurauskas E, Laurinaviciene A, Bironaite D, Grabauskiene V, **Laurinavicius A**. Quantification of myocardial fibrosis by digital image analysis methods and pathologist visual scoring versus digital stereology. *European Journal of Heart Failure*, 2014, 16: 222-222, ISSN: 1388-9842, eISSN: 1879-0844.
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