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Research profile

ACADEMIC DEGREES AND EDUCATION

- 2017 Board certification in Clinical Pathology
- 2013 PhD, Aarhus University and Department of Pathology, Aarhus University Hospital. Title: *"The biological and prognostic implications of mutations and altered protein expression in malignant melanoma"*
- 2008 B-authorisation
- 2006 Medical Doctor, Aarhus University, A-authorisation
- 2004 Research diploma, Aarhus University and Department of Pulmonary Medicine, Aarhus University Hospital.

Title: *"Characterization and culture of immunocompetent regulatory T cells in bronchial tissue"*

PUBLICATIONS

- 2004- H-index 9 (Web of Science, apr.2025), 24 papers (5 as first author and 3 as last author) in international peer reviewed journals

SCIENTIFIC FOCUS AREAS

- 2017- Lung cancer pathology (prognostic, predictive, and diagnostic biomarkers)
- 2010- Melanoma pathology (prognostic, predictive, and diagnostic biomarkers)
- 2003-2004 Immunology, regulatory T-cells, culturing T-cells, flowcytometry

EDITORIAL WORK

- 2014- Peer reviewer in international journals: Modern Pathology (IF 7.9), Journal of the European Academy of Dermatology and Venereology (IF 9.2), Journal of Clinical Pathology (IF 2.5), Clinical Chemistry and Laboratory Medicine (IF 3.8)
- 2020- Chair of three national guidelines about the pathological melanoma diagnostics

UDDANNELSE

- 2004 Forskningsårsdiplom, Aarhus Universitet
- 2006 Cand.Med., Aarhus Universitet
- 2013 Ph.d., Aarhus Universitet
- 2017 Speciallæge I patologi

NUVÆRENDE ANSÆTTELSER

- 2023- Klinisk lektor, Institut for Klinisk Medicin, Aalborg Universitet
- 2023- Overlæge, Patologifdelingen, Aalborg Universitetshospital

VIDENSKABELIGE KVALIFIKATIONER

PUBLIKATIONER: H-index 9 (Web of science), 22 artikler (4 som førsteforfatter og 3 som sidsteforfatter) i internationale peer review tidsskrifter. EDITORIALT ARBEJDE: Peer reviewer i 4+ internationale tidsskrifter inklusive Modern Pathology og Journal of Clinical Pathology. UNDERVISNING: Ekstensiv undervisning af prægraduate medicinstuderende,

tandlægestuderende og molekylærmedicin-studerende. Undervisning af postgraduate læger under specialisering til patologi og retsmedicin. VEJLEDNING: Supervisor for 2 Ph.d.-studerende. Tidligere hovedvejleder for 2 prægraduate forskningsår, 4 prægraduate specialeopgaver og 2 postgraduate forskningstræningsopgaver.

ORGANISATORISK OG LEDELSESMÆSSIG ERFARING

FORSKNING OG UNDERVISNING: 2010- Igangsætter og leder af diverse forskningsprojekter med udgangspunkt i patologi, 2011-2012 Deltagelse i planlægning af patologikurser (herunder pensumafgrænsning og eksamensopgaver) for tandlægestuderende (4.semester), 2019-2023
Leder af specialespecifikt forskningstræningskursus. FAGLIGE SELSKABER: 2014-2016 Medlem og sekretær i bestyrelsen for Foreningen af Yngre Patologer (FYPA), 2021- 2024 Formand for uddannelsesudvalget under Dansk Patologiselskab (DPAS). SYGEHUSAFDELING: 2015-2016 MED-udvalg medlem, Patologisk Institut, Regionshospitalet Randers, 2015-2016 Uddannelses Koordinator Yngre Læge, Patologisk Institut, Regionshospitalet Randers, 2021 Medlem af forskningsråd, Patologi, AUH, 2022-2023 Faglig leder af teamet for neoplastisk hudpatologi, Patologi, AUH (7 speciallæger), 2023- Medlem af forskningsråd, Patologifdelingen, AAUH. DANSKE MULTIDISCIPLINÆRE CANCERGRUPPER (DMCG): 2020- Medlem (udpeget af fagligt selskab) af forretningsudvalget og styregruppen for Dansk Melanom Database (DMD) og Dansk Melanomgruppe (DMG), hvor der bl.a. udarbejdes nationale retningslinjer indenfor modermærkekræft og hvor DMD styres og udvikles. Fra maj 2023 formand for patologigruppen under DMG. ANDET: 2024- Formand for et fagligt udvalg under Behandlingsrådet

Research outputs

Modermærkekræft

Mogensen, M., von Knorring, T., Hölmich, L. R., Steiniche, T., Lade-Keller, J., Karmisholt, K. & Omland, S. H., 31 Mar 2025, In: Ugeskrift for Læger. 187, 14, 11 p., V10240698.

Digital quantification of PRAME for distinguishing melanoma from nevi compared to manual assessment

Enevoldsen, J., Brogård, M. B., Lade-Keller, J., Christensen, K. B., Georgsen, J. B., Nielsen, P. S. & Steiniche, T., Oct 2024, In: Pathology - Research and Practice. 262, 8 p., 155543.

Reducing workload in malignant melanoma sentinel node examination: a national study of pathology reports from 507 melanoma patients

Mellemgaard, C., Christensen, I. J., Salkus, G., Wirenfeldt Staun, P., Korsgaard, N., Hein Lindahl, K., Skaarup Larsen, M., Klausen, S. & Lade-Keller, J., May 2024, In: Journal of Clinical Pathology. 77, 5, p. 312-317 6 p., 208743.

Immunohistochemical double nuclear staining for cell-specific automated quantification of the proliferation index - A promising diagnostic aid for melanocytic lesions

Brogård, M. B., Nielsen, P. S., Christensen, K. B., Georgsen, J. B., Wandler, A., Lade-Keller, J. & Steiniche, T., Mar 2024, In: Pathology - Research and Practice. 255, 9 p., 155177.

Examination of the Functional Relationship between PD-L1 DNA Methylation and mRNA Expression in Non-Small-Cell Lung Cancer

Larsen, T. V., Dybdal, N., Daugaard, T. F., Lade-Keller, J., Lin, L., Sorensen, B. S. & Nielsen, A. L., Mar 2023, In: Cancers. 15, 6, 1909.

Pulmonary cystic echinococcosis acquired during a short-term tourist travel

Svensgaard, S. N. H., Jokelainen, P., Stensvold, C. R., Lausch, K. R., Højsgaard, A., Keller, J. L., Nielsen, H. V. & Larsen, C. S., Jan 2023, In: IDCases. 33, e01833.

Prognostic value of KRAS mutations, TP53 mutations and PD-L1 expression among lung adenocarcinomas treated with immunotherapy.

Tønnesen, E. M. T., Stougaard, M., Meldgaard, P. & Lade-Keller, J., 21 Nov 2022, (E-pub ahead of print) In: Journal of Clinical Pathology.

An Extended PD-L2 Cytoplasmic Domain Results From Alternative Splicing in NSCLC Cells.

Dietz, L. L., Furman, N. T., Larsen, T. V., Daugaard, T. F., Thomsen, E. A., Lade Keller, J., Aagaard, L., Sorensen, B. S. & Nielsen, A. L., 30 Aug 2022, In: Journal of immunotherapy (Hagerstown, Md. : 1997).

A targeted expression panel for classification, gene fusion detection and PD-L1 measurements – Can molecular profiling replace immunohistochemistry in non-small cell lung cancer?
Simonsen, A. T., Utke, A., Lade-Keller, J., Thomsen, L. W., Steiniche, T. & Stougaard, M., Apr 2022, In: Experimental and Molecular Pathology. 125, 104749.

Can evaluation of mismatch repair defect and TILs increase the number of triple-negative breast cancer patients eligible for immunotherapy?
Özcan, D., Lade-Keller, J. & Tramm, T., Oct 2021, In: Pathology Research and Practice. 226, 153606.

Frequently used quantitative polymerase chain reaction–based methods overlook potential clinically relevant genetic alterations in epidermal growth factor receptor compared with next-generation sequencing: a retrospective clinical comparison of 1839 lung adenocarcinomas
Tønnesen, E., Lade-Keller, J. & Stougaard, M., Sept 2021, In: Human Pathology. 115, p. 67-75 9 p.

Telomerase reverse transcriptase promoter mutations and solar elastosis in cutaneous melanoma.
Lade-Keller, J., Yuusufi, S., Riber-Hansen, R., Steiniche, T. & Stougaard, M., Oct 2018, In: Melanoma Research.

Concordance in BRAF V600E status over time in malignant melanoma and corresponding metastases.
Nielsen, L., Dabrosin, N., Sloth, K., Bønnelykke-Behrndtz, M., Steiniche, T. & Lade-Keller, J., Feb 2018, In: Histopathology. 72, 5, p. 814-825

BRAF mutations in conjunctival melanoma: investigation of incidence, clinicopathological features, prognosis and paired premalignant lesions.
Larsen, A.-C., Dahl, C., Dahmcke, C., Lade-Keller, J., Siersma, V., Toft, P. B., Coupland, S., Prause, J., Guldberg, P. & Heegaard, S., Mar 2016, In: Acta Ophthalmologica.

KIT is a frequent target for epigenetic silencing in cutaneous melanoma.
Dahl, C., Abildgaard, C., Riber-Hansen, R., Steiniche, T., Lade-Keller, J. & Guldberg, P., Sept 2014, In: The Journal of Investigative Dermatology.

Immunohistochemical analysis of molecular drivers in melanoma identifies p16 as an independent prognostic biomarker.
Lade-Keller, J., Riber-Hansen, R., Guldberg, P., Schmidt, H., Hamilton-Dutoit, S. & Steiniche, T., Mar 2014, In: Journal of Clinical Pathology.

E- to N-cadherin switch in melanoma is associated with decreased expression of phosphatase and tensin homolog and cancer progression.
Lade-Keller, J., Riber-Hansen, R., Guldberg, P., Schmidt, H., Hamilton-Dutoit, S. & Steiniche, T., Sept 2013, In: The British journal of dermatology.

TGF- β 1 and TNF- α differentially regulate Twist1 mediated resistance towards BRAF/MEK inhibition in melanoma.
Menon, D., Wels, C., Bonyadi, R. E., Joshi, S., Knausz, H., Lade-Keller, J., Brandner, J. & Schaidt, H., Aug 2013, In: Pigment Cell & Melanoma Research.

Author's reply: To PMID 23159593.
Kristensen, L., Hansen, L., Lade-Keller, J., Riber-Hansen, R., Steiniche, T., Hager, H. & Guldberg, P., Jul 2013, In: The Journal of molecular diagnostics : JMD.

A role for immunohistochemical detection of BRAF V600E prior to BRAF-inhibitor treatment of malignant melanoma?
Lade-Keller, J., Kristensen, L., Riber-Hansen, R., Guldberg, P., Hansen, L., Steiniche, T. & Hager, H., Mar 2013, In: Journal of Clinical Pathology.

Evaluation of BRAF mutation testing methodologies in formalin-fixed, paraffin-embedded cutaneous melanomas.
Lade-Keller, J., Rømer, K., Guldberg, P., Riber-Hansen, R., Hansen, L., Steiniche, T., Hager, H. & Kristensen, L., Nov 2012, In: The Journal of molecular diagnostics : JMD.

FoxP3(+)CD4(+)CD25(+) T cells with regulatory properties can be cultured from colonic mucosa of patients with Crohn's disease

Kelsen, J., Agnholt, J., Hoffmann, H. J., Rømer, J. L., Hvas, C. L. & Dahlerup, J. F., 2005, In: Clinical and Experimental Immunology. 141, 3, p. 549-579 p.

Indium-labelled human gut-derived T cells from healthy subjects with strong in vitro adhesion to MAdCAM-1 show no detectable homing to the gut in vivo

Kelsen, J., Agnholt, J., Falborg, L., Nielsen, J. T., Rømer, J. L., Hoffmann, H. J. & Dahlerup, J. F., Oct 2004, In: Clinical and Experimental Immunology. 138, 1, p. 66-749 p.