



Curriculum Vitae

Oluf Dimitri Røe, MD&PhD



Current affiliations

1.Clinical Associate Professor
Clinical Cancer Research Center
Department of Clinical Medicine
Aalborg University Hospital
Hobrovej 18-22
DK-9100 Aalborg
Denmark

3.Consultant Oncologist
Cancer Clinic
Department of Surgery,
Levanger Hospital
Nord-Trøndelag Hospital Trust
Kirkegata 2, N-7600 Levanger
Norway

Contact information

Telephone

Private +47 73 90 06 50
Cellular +47 95 43 24 96
Levanger +47 74 09 80 00
NTNU +47 72 82 52 63
Fax +47 72 57 64 00

4.Post-doc

Department of Cancer Research and
Molecular Medicine
Faculty of Medicine
Norwegian University of Science and
Technology (NTNU)
Prinsesse Kristinsgt. 1, N-7491 Trondheim
Norway

Email

olufdroe@yahoo.no
oluf.roe@ntnu.no

Website

http://www.mensxmachina.org/cancer_bio_marker_hunt/

Personal

Born: Jan 13th 1962 in Namsos, Norway.

Civil status: Married, two children.

Languages: Fluent; English, Norwegian, Greek Conversation; Spanish, German

Research interests

My main research interests have been a combination of clinical and basic cancer research (translational), including biomarkers for early detection of cancer, predictive and prognostic biomarkers, genome-wide analysis and mechanisms of treatment resistance.

The research has been focused on mesothelioma, an asbestos-related cancer, but recently also lung and gastric cancer. I have published papers on biomarkers in serum and tissue of mesothelioma and gastric cancer in international peer-reviewed journals as Lung Cancer, PlosOne, Clinical Cancer Research and Gut. Specifically in mesothelioma my research experience includes clinical research where I initiated and completed studies on early detection of mesothelioma in pre-clinical serum in collaboration with the Cancer Registry and the Janus Biobank, with a fruitful collaboration with prof. Jeanette Creaney at the National Centre for Asbestos Related Diseases, University of Western Australia, Perth, Australia. At our research department I conducted three gene expression studies at the FUGE (Functional Genomics) core facility with Affymetrix U133 Plus 2 and Illumina HumanHT-12 v3 Expression BeadChip on human mesothelioma and normal pleural samples. The recent years a collaborative work on novel bioinformatics methods with bioinformaticians at Vanderbilt-USA/University of Crete-Greece has resulted in exciting results and new publications.

Since November 2010 a collaboration with Nanjing Medical University, China was initiated on mesothelioma, lung and gastric cancer. Current work in progress includes:

- 1) prospective collection of high quality biological material of lung cancer and mesothelioma to do high-throughput analyses such as microRNA and mRNA expression to identify novel biomarkers with clinical relevance.
- 2) cell-line experiments on mesothelioma, lung and gastric cancer on improving the effect of cisplatin by inhibition of homologous recombination (HR) and non-homologous end joining (NHEJ) and analyse DNA repair, gene and protein expression before and after treatment.

The HUNT biobank in Levanger, Norway, is one of the largest biobanks in Scandinavia with serum and clinical data from approximately 78 000 subjects. Since May 2011 collaboration with the HUNT was initiated, aiming at tumour-specific microRNA discovery in pre-diagnostic serum. The Cancer-Biomarker-HUNT Project aims at discovery of biomarkers in serum for detection of lung cancer and mesothelioma in an early stage.

http://www.mensxmachina.org/cancer_biomarker_hunt/

Since 2013- appointed as Clinical Associate Professor (20%) at the Aalborg University Hospital. Aalborg, the major and capital city in the Northern Jutland Region has hosted the only asbestos factory (Eternit) in Denmark and processed 80% of all asbestos imported to Denmark. The long term effects of the asbestos use is that the age-standardised incidence rate for men with mesothelioma in the Region of Northern Jutland in 2008-2009 is approximately 3-fold higher than in the other four Danish Regions. Currently I hold a position as Clinical

Associate Professor at the Department of Oncology in Aalborg, and heading a multidisciplinary group formed to do mesothelioma research.

Novel projects on biomarker discovery and innovative treatment of cancer have been initiated and in part funded by SINTEF

1. Sensitization of cancer cells with nano-encapsulated natural compounds (with Y. Mørch)
2. Biomarker discovery in unconventional biological materials (with H.F. Kvittang)

Funding

2012 Norwegian Research Council for collaborative project with China, 310 000 NOK

2012 Liaison Committee between the Central Norway Regional Health Authority (RHA) and the NTNU, post-doc position 60% for 5 years

2014 Liaison Committee between the Central Norway Regional Health Authority (RHA) and the NTNU, 5,7 mill. NOK for 4 years

2015 Levanger Hospital, Nord-Trøndelag Hospital Trust, 300 000 Nok

2016 BONNIE J. ADDARIO LUNG CANCER FOUNDATION AND INTERNATIONAL ASSOCIATION FOR THE STUDY OF LUNG CANCER (IASLC) JOINT AWARD 2016. 2,7 mill. NOK (300 000 USD) for two years, see

<https://www.iaslc.org/news/bonnie-j-addario-lung-cancer-foundation-and-international-association-study-lung-cancer>

National collaborations

Several collaborators at the NTNU, among them Prof. Pål Sætrom, Prof. Hans Krokan, Prof Duan Chen and Prof. Steinar Lundgren, post-doc Robin Mjelle.

Prof Kristian Hveem and Prof Arnulf Langhammer, HUNT Research Center

Hans Fredrik Kvittang PhD, Dept. of Mass Spectrometry (MS), SINTEF Research Center, Trondheim

Yrr Mørch PhD, Group of Polymer Particles and Surface Chemistry Nanolab, SINTEF Research Center, Trondheim

International collaborations

Prof. Ioannis Tsamardinos, Vanderbilt University, USA/University of Crete, Greece

Prof. Erik Larsson, Uppsala University, Sweden

Ass Prof Katalin Dobra, Department of Pathology, Karolinska, Stockholm, Sweden

Prof. Jianwei Zhou, Nanjing Medical University & Prof. Yijiang Chen, Thoracic Surgery Department, 1st Affiliated University Hospital, Nanjing, China

Dr. Gao Zhibin, MD PhD, Department of Pathology, Yuyao People's Hospital, Yuyao, Ningbo, China

Prof. Kenzo Hiroshima, Department of Pathology, Tokyo Women's Medical University Yachiyo Medical Center, Yachiyo, Japan

Kenji Morinaga, MD PhD, Department of Asbestos-related Health Damage Relief, Environmental Restoration and Conservation Agency of Japan, Saiwai-Ku, Kawasaki-Shi, Kanagawa, Japan

Prof. Mogens Vyberg, Prof. Øyvind Omland, Prof. Ursula Falkmer, Aalborg University Senior Researcher Kristina Kjærheim, Norwegian Cancer Registry, Oslo

Prof. Bruce Robinson, Prof. Jeanette Creaney, National Center for Asbestos Related Diseases (NCARD), University of Western Australia, Perth, Australia

Paolo Boffetta, IARC, Lyon, France /Mount Sinai, NY, USA

Prof. Michael Pawlita, Research Program Infection and Cancer, German Cancer Research Center (DKFZ), Heidelberg, Germany

Mark Ladanyi, Memorial Sloan Kettering Cancer Center, NY, USA

Education

Medical School Univ. of Bergen and Univ. of Trondheim (currently named Faculty of Medicine, Norwegian University of Science and Technology (NTNU), Norway 1983-89

Cand. Med. 1989 MD - licenced physician 1991

Oncology specialization, Dept. of Oncology, St. Olavs University Hospital, Trondheim, Norway 2001-07

Certified Specialist in Medical and Radiation Oncology Dec. 2007

PhD student in Clinical Medicine 2003-2008, Dissertation Oct. 2008 at the Faculty of Medicine, NTNU

Title of Thesis:

Malignant mesothelioma: Virus, Biomarkers and Genes. A Translational Approach

Passed course in GCP, 2010

Positions

Internship Gjøvik County Hospital and Kautokeino Commune 1990-91

General Practitioner in Kautokeino, Finnmark, Norway 1992-94

General Practitioner in Mykonos, Greece (Norwegian/Greek MD licence) 1994-2001

MD, Departments of Oncology/Haematology/Lung Diseases, St. Olavs University Hospital, Trondheim, Norway 2001-10

Assistant Consultant in Clinical Oncology, Department of Oncology, St. Olavs University Hospital, Trondheim, Norway 2004-06

Consultant Oncologist for Thoracic and CNS cancer for Mid- Norway Aug. 2008- Nov. 2010
Research fellow Nanjing Medical University, translational research in mesothelioma and lung cancer, Nov.2010- May 2011-Feb /Nov/Dec 2012

Consultant Oncologist, Cancer Clinic, Department of Surgery, Levanger Hospital, Levanger, Norway May 2011- present

Research Oncologist, Department of Cancer Research and Molecular Medicine, Norwegian University of Science and Technology (NTNU) Trondheim, Norway Sept. 2010-present

Post-doc, Department of Cancer Research and Molecular Medicine,
Norwegian University of Science and Technology (NTNU) Trondheim, Norway

Jan 2012- present

Associate Professor, Department of Oncology, Aalborg University Hospital, July 2013-present

Produced conferences

Initiating and arranging the **1st International NTNU Symposium on Current and Future Clinical Biomarkers of Cancer: Innovation and Implementation**
June 16th-17th 2016, Trondheim, Norway

<https://biomarkerstrondheim.wordpress.com/>

The Symposium attracted approximately 100 attendees and invited speakers from 12 countries and 4 continents, including top researchers from Memorial Sloan Kettering Cancer Center, MD Anderson, National Cancer Institute, USA as well as one of the discoverers of PD1 immunotherapy from the University of Kyoto, Japan.. In this Symposium original research and overviews on diagnostic, predictive and prognostic cancer biomarkers in serum, plasma, urine, pleural fluid and tumor, circulating tumor cells and bioinformatics as well as how to implement biomarkers in clinical trials were presented. Senior researchers and young investigators presented, reviewed and vividly discussed important new developments in the field of clinical biomarkers of cancer, with the goal of accelerating biomarker research and implementation.

The excerpts of this symposium are now published in the Journal of Translational Medicine and aim to give a cutting-edge overview and insight on some highly important aspects of

clinical cancer biomarkers to-date to connect molecular innovation with clinical implementation to eventually improve patient care.

Teaching and Supervising

Consultant oncologist and Leader of the Education Board (since 2015), responsible for the supervision and education of oncologists at the Cancer Clinic, Sykehuset Levanger, Norway. Censor for master students, medical students and elected board member for one PhD student at the IKM NTNU.

Clinical Associate Professorship at the Aalborg University Hospital since July 2013, where initiation and supervision of oncology research is the main focus:

1. Medical student thesis Initiated and supervised one medical student thesis at the Aalborg University Hospital *Treatment and survival of patients with malignant pleura mesothelioma in North Jutland in the period 2002-2013, a retrospective analysis (also accepted as abstract at ASCO 2016)* Candidate: Stud med Ida Nielsen (passed examination the 20th of January 2016).

2. PhD thesis Main supervisor for three PhD-students at the Aalborg University Hospital
Vasiliki Panou, MD, *Prognostic and predictive biomarkers for Malignant Pleural Mesothelioma, MESO-HUNT-AALBORG*, one published paper, one manuscript, six abstract published (see below). Department of Pulmonary Medicine, Aalborg University Hospital
Weronika Sezniuk, MD, *Non-coding RNAs as predictive biomarkers for adjuvant chemotherapy in non-small cell lung carcinoma. Discovery and Validation Study*. Department of Oncology, Aalborg University Hospital (just started)

Co-supervisor for two PhD-students

Nikolaj Aarøre Jensen, MD, *Nutritional Care Pathway for patients with Non-small-cell lung cancer; Identification of risk factors*, Department of Oncology, Aalborg University Hospital (started)

Karen Sofie Bunemann Dalsgaard, MD, Title: *Environmental asbestos exposure in four primary schools in Aalborg, Denmark and cancer in adulthood*. Department of Occupational Medicine, Aalborg University Hospital

All protocols have been developed together with the PhD candidates.

We have regular 2-day PhD-courses at Klitgaarden, Skagen, Denmark where I am co-organizing as supervisor and speaker.

I also was a collaborating/visiting researcher periodically at the Nanjing Medical University, Nanjing China since Nov 2010, and co-authored 13 peer-reviewed papers, including high-impact journals as Cell Death and Disease, Gut, Clinical Cancer Research, Scientific Reports and Oncotarget.

Through this work I was a co-mentor and co-writer for two PhD students, Drs. Yensu Chen and Wenxia Xu, both successfully obtaining their PhD degree in 2014.
(The published papers are below with the initials of the students)
The title of their PhD was:

Yensu Chen: "The mechanism of JWA inhibiting tumor angiogenesis in gastric cancer."
Wenxia Xu: "The molecular mechanisms of resistance and reversal of resistance to cisplatin in human gastric cancer cells."

Moreover, I co-mentored Shouyu Wang, PhD on some of his publications (see below). Currently I supervise post-doc Robin Mjelle in our Cancer Biomarkers in HUNT project. See attestation from Prof. Jianwei Zhou attached and see our website.

http://www.mensxmachina.org/cancer_biomarker_hunt/

13. J Qian, W Zhu, K Wang, L Ma, J Xu, T Xu, OD Røe, A Li, J Zhou, Y Shu, JWA LOSS PROMOTES CELL MIGRATION AND CYTOSKELETAL REARRANGEMENT BY AFFECTING HER2 EXPRESSION AND IDENTIFIES A HIGH-RISK SUBGROUP OF HER2-POSITIVE GASTRIC CARCINOMA PATIENTS.

Oncotarget 2016 May 6. Epub 2016 May 6.

12. Q Li, X Zhi, J Zhou, R Tao, OD Røe, J Zhang, P Chen, L Sun, L Ma
Circulating Tumor Cells as a prognostic and predictive marker in Gastrointestinal Stromal Tumors: a Prospective Study,
Oncotarget. 2016 May 2. doi: 10.18632/oncotarget.9128.

11. Chen XF, Qian J, Pei D, Zhou C, Røe OD, Zhu F, He SH, Qian YY, Zhou Y, Xu J, Xu J, Li X, Ping GQ, Liu YQ, Wang P, Guo RH, Shu YQ.
Prognostic value of peri-operative leukocyte count in resectable gastric cancer.
World J Gastroenterol. Mar 7, 2016; 22(9): 2818-2827 doi: 10.3748/wjg.v22.i9.2818

10. Qian J, Qian Y, Wang J, Gu B, Pei D, He S, Zhu F, Røe OD, Xu J, Liu L, Gu Y, Guo R, Yin Y, Shu Y, Chen X
A clinical prognostic scoring system for resectable gastric cancer to predict survival and benefit from paclitaxel- or oxaliplatin-based adjuvant chemotherapy
Drug Design, Development and Therapy, 2016 Feb Volume 2016:10 Pages 241—258

9. Zhi X, Jiang B, Yu J, Røe OD, Qin J, Ni Q, Sun L, Xu M, Zhu J, Ma L
Prognostic role of microscopically positive margins for primary gastrointestinal stromal tumors: a systematic review and meta-analysis.
Sci Rep. 2016 Feb 19;6:21541. doi: 10.1038/srep21541.

8. Z Gao, K Hiroshima, X Wu, J Zhang, D Shao, H Shao, H Yang, T Yusa, T Kiyokawa, M Kobayashi, Y Shinohara, OD Røe, X Zhang, K Morinaga
Asbestos textile production linked to malignant peritoneal and pleural mesothelioma in women: Analysis of 28 cases in Southeast China
American Journal of Industrial Medicine, 29 May 2015 doi 10.1002/ajim.22494

7. W Xu, Q Chen, Q Wang, Y Sun, S Wang, A Li, S Xu, OD Røe, M Wang, R Zhang, L Yang, J Zhou. JWA reverses cisplatin resistance via the CK2—XRCC1 pathway in human gastric cancer cells *Cell Death and Disease* (2014) 5, e1551;

6. J Zhou, W Xu, S Wang, Q Chen, Y Zhang, P Ni, X Wu, J Zhang, F Qiang, A Li, OD Røe, S Xu, M Wang, and R Zhang. TXNL1-XRCC1 pathway regulates cisplatin induced cell death and contributes to resistance in human gastric cancer *Cell Death Dis.* 2014 Feb 13;5:e1055.

5. Ye Y, Li X, Yang J, Miao S, Wang S, Chen Y, Xia X, Wu X, Zhang J, Zhou Y, He S, Tan Y, Qiang F, Li G, Røe OD, Zhou J. MDM2 is a useful prognostic biomarker for resectable gastric cancer. *Cancer Sci.* 2013 May;104(5):590-8.

4. Chen Y, Xia X, Wang S, Wu X, Zhang J, Zhou Y, Tan Y, He S, Qiang F, Li A, Røe OD, Zhou J. High FAK combined with low JWA expression: clinical prognostic and predictive role for adjuvant fluorouracil–leucovorin–oxaliplatin treatment in resectable gastric cancer patients *J Gastroenterol.* 2013 Sep;48(9):1034-44.

3. Liu X, Wang S, Xia X, Chen Y, Zhou Y, Wu X, Zhang J, He S, Tan Y, Qiang F, Røe OD, Li G, Zhou J. Synergistic Role between p53 and JWA: Prognostic and Predictive Biomarkers in Gastric Cancer. *PLoS One*. 2012;7(12):e52348.

2. S Wang, X Wu, J Zhang, Y Chen, J Xu, X Xia, S He, F Qiang, A Li, Y Shu, OD Røe, Ga Li, and Jianwei Zhou: CHIP functions as a novel suppressor of tumor angiogenesis with prognostic significance in human gastric cancer. *Gut*. 2013 Apr;62(4):496-508.

1. Wang S, Wu X, Chen Y, Zhang J, Ding J, Zhou Y, He S, Tan Y, Qiang F, Bai J, Zeng J, Gong Z, Li A, Li G, Røe OD, Zhou J. Prognostic and predictive role of JWA and XRCC1 expression in gastric cancer *Clin Cancer Res*. 2012 May 15;18(10):2987-96.

Reviewer

Journals: "Plos One", "Lung Cancer", "BMC Cancer", "BMJ Open", "DNA Repair", "Current Cancer Therapy Reviews", "Current Medicinal Chemistry", "Differentiation", "Journal of Experimental and Clinical Cancer Research", "British Journal of Pharmacology", "Oncology Reports"

Foundations: British Lung Foundation, Commission for Cancer Research Zurich, Fondation Contre le Cancer, Belgium

Invited speaker

1. Pathology Spring Meeting 2008, Uppsala, Sweden
**Genprofiling av mesotheliom och normal pleura;
överuttryck av vissa gener kan förklara strålnings och cytostatikaresistens.**
2. Hellenic Oncological Society 2009, Heraklion, University of Crete, Greece
**Malignant mesothelioma, chemo-and radio- resistance
related to gene expression**
3. MOLMED 2010, Shanghai, China
Mesothelioma and treatment resistance: What can we learn from gene expression?
4. Nanjing Medical University, 15. Nov. 2010, Nanjing, China
Mesothelioma- a forgotten epidemic
5. Nanjing Medical University, Dec. 2012, Nanjing, China
MicroRNA in Cancer
6. CancerScience/Biomarker meeting, Nov. 2013, San Francisco, USA
Biomarker HUNT in asbestos related diseases
7. 2rd "Symposium on Thoracic and Upper Aerodigestive Malignancies" , 2013, Athens, Greece
Mesothelioma, pathophysiology and epidemiology
8. Springmeeting Lungcancer 15th May 2014, Oslo, Norway
Mesothelioma- New research of a forgotten epidemic

9. "MicroRNAs/Noncoding RNAs Europe 2014, November 3 - 4, 2014 University of Cambridge, Cambridge, United Kingdom
MicroRNAs in serum for early diagnosis of cancer. Where are we?
10. 3rd "Symposium on Thoracic and Upper Aerodigestive Malignancies" February 5-7, 2015 Athens, Greece
Biomarkers for early diagnosis of lung cancer and mesothelioma
11. 2nd NordiQC Conference on Applied Immunohistochemistry June 9th - 12th 2015 Aalborg, Denmark
Malignant mesothelioma – epidemiology and molecular biology
12. "MicroRNAs/Noncoding RNAs & Genome Editing Europe 2015" meeting, Cambridge, UK, 2 -3. November 2015.
Early diagnosis of lung cancer and mesothelioma by multi-omics, techniques and feasibility

Awards

BI Cancer Research Award 2014

For best Norwegian poster on lung cancer (Norwegian Lung Cancer Group);
R Mjelle, T Andreassen, V Lagani, K Kerkentes, I Tsamardinos, TF Bathen, E Larsson, **OD Røe**, "Hunting" for lung-cancer / mesothelioma early diagnostic biomarkers: results of a pilot analysis from the Cancer-Biomarker-HUNT study.
IMIG 2014, Cape Town

Oluf Dimitri Røe, peer-reviewed articles 2007-2016

2016

41. Ana I. Robles, Karina Standahl Olsen, Dana W.T. Tsui, Vassilis Georgoulias, Jenette Creaney, Katalin Dobra, Mogens Vyberg, Nagahiro Minato, Robert A. Anders, Anne-Lise Børresen-Dale, Jianwei Zhou, Pål Sætrom, Boye Schnack Nielsen, Michaela B. Kirschner, Hans E. Krokan, Vassiliki Papadimitrakopoulou, Ioannis Tsamardinos and **Oluf D. Røe**
Excerpts from the 1st international NTNU symposium on current and future clinical biomarkers of cancer: innovation and implementation, June 16th and 17th 2016, Trondheim, Norway
Journal of Translational Medicine 2016 14:295 DOI: 10.1186/s12967-016-1059-6

40. J Qian, W Zhu, K Wang, L Ma, J Xu, T Xu, **OD Røe**, A Li, J Zhou, Y Shu, JWA LOSS PROMOTES CELL MIGRATION AND CYTOSKELETAL REARRANGEMENT BY AFFECTING HER2 EXPRESSION AND IDENTIFIES A HIGH-RISK SUBGROUP OF HER2-POSITIVE GASTRIC CARCINOMA PATIENTS.
Oncotarget 2016 May 6. Epub 2016 May 6.

39. Q Li, X Zhi, J Zhou, R Tao, **OD Røe**, J Zhang, P Chen, L Sun, L Ma
Circulating Tumor Cells as a prognostic and predictive marker in Gastrointestinal Stromal Tumors: a Prospective Study,

Oncotarget. 2016 May 2. doi: 10.18632/oncotarget.9128.

38. Chen XF, Qian J, Pei D, Zhou C, **Røe OD**, Zhu F, He SH, Qian YY, Zhou Y, Xu J, Xu J, Li X, Ping GQ, Liu YQ, Wang P, Guo RH, Shu YQ.

Prognostic value of peri-operative leukocyte count in resectable gastric cancer.

World J Gastroenterol. Mar 7, 2016; 22(9): 2818-2827 doi: 10.3748/wjg.v22.i9.2818

37. Qian J, Qian Y, Wang J, Gu B, Pei D, He S, Zhu F, **Røe OD**, Xu J, Liu L, Gu Y, Guo R, Yin Y, Shu Y, Chen X

A clinical prognostic scoring system for resectable gastric cancer to predict survival and benefit from paclitaxel- or oxaliplatin-based adjuvant chemotherapy

Drug Design, Development and Therapy, 2016 Feb Volume 2016:10 Pages 241—258

36. Zhi X, Jiang B, Yu J, **Røe OD**, Qin J, Ni Q, Sun L, Xu M, Zhu J, Ma L

Prognostic role of microscopically positive margins for primary gastrointestinal stromal tumors: a systematic review and meta-analysis.

Sci Rep. 2016 Feb 19;6:21541. doi: 10.1038/srep21541.

2015

35. Z Gao, K Hiroshima, X Wu, J Zhang, D Shao, H Shao, H Yang, T Yusa, T Kiyokawa, M Kobayashi, Y Shinohara, **OD Røe**, X Zhang, K Morinaga

Asbestos textile production linked to malignant peritoneal and pleural mesothelioma in women: Analysis of 28 cases in Southeast China

American Journal of Industrial Medicine, 29 May 2015 doi 10.1002/ajim.22494

34. V Panou, M Vyberg, U M Weinreich, C Meristoudis, U Falkmer, **O D Røe**

The established and future biomarkers of malignant pleural mesothelioma

Cancer Treatment Reviews, May 2015, doi <http://dx.doi.org/10.1016/j.ctrv.2015.05.001>

33. OD Røe, GM Stella Malignant pleural mesothelioma- history, controversy, and future of a man-made epidemic; review.

Eur Respir Rev. 2015 Mar;24(135):115-131.

32. Zhu W, **Røe OD**, Wu C, Li W, Guo R, Gu Y, Liu Y, Shu Y, Chen X.

Pemetrexed-platinum regimen as first-line chemotherapy for adenocarcinoma of the lung with asymptomatic and inoperable brain metastasis: a retrospective study

J Chemother. 2015 Mar 3:1973947815Y0000000005. [Epub ahead of print]

2014

31. W Xu, Q Chen, Q Wang, Y Sun, S Wang, A Li, S Xu, **OD Røe**, M Wang, R Zhang, L Yang, J Zhou. JWA reverses cisplatin resistance via the CK2—XRCC1 pathway in human gastric cancer cells

Cell Death and Disease (2014) 5, e1551; doi:10.1038/cddis.2014.517

30. H Cao, Q Zhou, R Lan, **OD Røe**, X Chen, Y Chen, D Wang

A functional polymorphism C-509T in TGF β -1 promoter contributes to susceptibility and prognosis of lone atrial fibrillation in Chinese population.

PLoS One. 2014 Nov 17;9(11):e112912. doi: 10.1371/journal.pone.0112912.

29. Røe OD, Oppegaard PA, Revheim ME, Svindland A

Adrenocortical cancer mimicking lung cancer and responding to vinorelbine, pemetrexed and carboplatin- a case report

BMJ Case Rep. 2014 Nov 12;2014. pii: bcr2014206225. doi: 10.1136/bcr-2014-206225.

28. K Kerkentzes, V Lagani, M Vyberg, I Tsamardinos, **OD Røe**

Hidden treasures in “ancient” microarrays: Gene expression portrays biology and potential resistance pathways of major lung cancer subtypes and normal tissue.
Front. Oncol. 4:251. doi:10.3389/fonc.2014.00251

27. Szejniuk WM, McCulloch T, Røe OD

Effective ultra-low doses of erlotinib in patients with EGFR sensitizing mutation.
BMJ Case Rep. 2014 Jul 23;2014. pii: bcr2014204809. doi: 10.1136/bcr-2014-204809.

26. X Chen, Q Zhu, Y Liu, P Liu, YYin, R Guo, K Lu , Y Gu , L Liu, J Wang, Z Wang, OD Røe, Y Shu, L Zhu

Icotinib is an active treatment of non-small-cell lung cancer: a retrospective study
PLoS One. 2014 May 16;9(5):e95897. doi: 10.1371/journal.pone.0095897. eCollection 2014.

25. J Zhou, W Xu, S Wang, Q Chen, Y Zhang, P Ni, X Wu, J Zhang, F Qiang, A Li, OD Røe, S Xu, M Wang, and R Zhang. TXNL1-XRCC1 pathway regulates cisplatin induced cell death and contributes to resistance in human gastric cancer"

Cell Death Dis. 2014 Feb 13;5:e1055. doi: 10.1038/cddis.2014.27

24. Cao H, Zhu J, Xi L, Røe OD, Chen Y, Wang D. Preoperative Serum Receptor Activator of Nuclear Factor-κB Ligand/Osteoprotegerin Predict Stabilization of Spontaneously Restored Sinus Rhythm in Persistent Atrial Fibrillation Patients after Mitral Valve Surgery.

Cardiology. 2014 Jan 14;127(3):183-189. PMID: 24434592

23. Cao H, Wu Y, Li Q, Wu Y, Zhou Q, Røe OD, Chen Y, Wang R, Wang D.

Serum sRANKL/OPG predict recurrence after radiofrequency catheter ablation of lone atrial fibrillation.

Int J Cardiol. 2014 Jan 1;170(3):298-302. doi: 10.1016/j.ijcard. PMID:24326209

2013

22. Huang Y, Wang W, Chen Y, Huang Y, Zhang J, He S, Tan Y, Qiang F, Li A, Røe OD, Wang S, Zhou Y, Zhou J.

The opposite prognostic significance of nuclear and cytoplasmic p21 expression in resectable gastric cancer patients.

J Gastroenterol. 2014 Nov;49(11):1441-52. doi: 10.1007/s00535-013-0900-4. Epub 2013 Oct 15.

21. C Xu, C Wu, Y Xia, Z Zhong, [SEP]X Liu, J Xu,[SEP] F Cui, B Chen, [SEP]OD Røe,[SEP]A Li, Y Chen WT1 Promotes Cell Proliferation in Non-Small Cell Lung Cancer Cell Lines through Up-Regulating Cyclin D1 and p-pRb In Vitro and In Vivo,

PLoS One. 2013 Aug 1;8(8):e68837. doi: 10.1371/journal.pone.0068837. Print 2013.

20. Cao H, Zhou Q, Wu Y, Li Q, Røe OD, Chen Y, Wu Z, Wang D.

Preoperative Serum Soluble Receptor Activator of Nuclear Factor-κB Ligand and Osteoprotegerin Predict Postoperative Atrial Fibrillation in Patients Undergoing Cardiac Valve Surgery.

Ann Thorac Surg. 2013 Jul 16. doi:pii: S0003-4975(13)00855

19. XF Chen, YQ Liu, O.D. Røe, YY Qian, RH Guo, LJ Zhu, YM Yin, YQ Shu

Gefitinib or erlotinib as maintenance therapy in patients with advanced stage non-small cell lung cancer: A systematic review.

PLoS One. 2013;8(3):e59314. doi: 10.1371/journal.pone.0059314. Epub 2013 Mar 21

18. Ye Y, Li X, Yang J, Miao S, Wang S, Chen Y, Xia X, Wu X, Zhang J, Zhou Y, He S, Tan Y, Qiang F, Li G, Røe OD, Zhou J.

MDM2 is a useful prognostic biomarker for resectable gastric cancer.
Cancer Sci. 2013 May;104(5):590-8. doi: 10.1111/cas.12111. Epub 2013 Mar 5

17. Chen Y, Xia X, Wang S, Wu X, Zhang J, Zhou Y, Tan Y, He S, Qiang F, Li A, **Røe OD**, Zhou J. High FAK combined with low JWA expression: clinical prognostic and predictive role for adjuvant fluorouracil–leucovorin–oxaliplatin treatment in resectable gastric cancer patients
J Gastroenterol. 2013 Sep;48(9):1034-44. doi: 10.1007/s00535-012-0724-7

2012

16. Xi L, Cao H, Zhu J, **Røe OD**, Li M, Wu Y, Wang D, Chen Y. OPG/RANK/RANKL Axis in Stabilization of Spontaneously Restored Sinus Rhythm in Permanent Atrial Fibrillation Patients after Mitral Valve Surgery.
Cardiology. 2013;124(1):18-24. doi: 10.1159/000342784. Epub 2012 Dec 28.

15. Liu X, Wang S, Xia X, Chen Y, Zhou Y, Wu X, Zhang J, He S, Tan Y, Qiang F, **Røe OD**, Li G, Zhou J. Synergistic Role between p53 and JWA: Prognostic and Predictive Biomarkers in Gastric Cancer.
PLoS One. 2012;7(12):e52348. doi: 10.1371/journal.pone.0052348.

14. X Chen, X Zha, W Chen, T Zhu, J Qiu, **OD Røe**, J Li, Z Wang , Y Yin Leptin attenuates the anti-estrogen effect of tamoxifen in breast cancer,
Biomed Pharmacother. 2013 Feb;67(1):22-30. doi: 10.1016/j.biopha.2012.10.001

13. X Chen, G Ping, S Jin, R Wang, K Yan, **ODRøe**, Y Shu, R Guo, Case report: Recombinant human endostatin (endostar) decreased recurrent ascites, pleural fluid and ascitic VEGF in a case of advanced mesothelioma,
J Chemother. 2012 Aug;24(4):231-6. doi: 10.1179/1973947812Y.0000000023.

12. **O Røe**, AD Szulkin, H Sandeck, E Anderssen, T Amundsen, SE Erlandsen, K Dobra, SH Sundstrøm, Molecular Resistance Fingerprint of Pemetrexed and Platinum in a Long-Term Survivor of Mesothelioma.
PLoS One. 2012;7(8):e40521. doi: 10.1371/journal.pone.0040521. Epub 2012 Aug 8.

11. S Wang, X Wu, J Zhang, Y Chen, J Xu, X Xia, S He, F Qiang, A Li, Y Shu, **OD Røe**, Ga Li, and Jianwei Zhou: CHIP functions as a novel suppressor of tumor angiogenesis with prognostic significance in human gastric cancer.
Gut. 2013 Apr;62(4):496-508. doi: 10.1136/gutjnl-2011-301522.

10. Wang S, Wu X, Chen Y, Zhang J, Ding J, Zhou Y, He S, Tan Y, Qiang F, Bai J, Zeng J, Gong Z, Li A, Li G, **Røe OD**, Zhou J. Prognostic and predictive role of JWA and XRCC1 expression in gastric cancer
Clin Cancer Res. 2012 May 15;18(10):2987-96. doi: 10.1158/1078-0432.CCR-11-2863

9. Chen XF, Wang R, Yin YM, **Røe OD**, Li J, Zhu LJ, Guo RH, Wu T, Shu YQ. The effect of monosialotetrahexosylganglioside (GM1) in prevention of oxaliplatin induced neurotoxicity: A retrospective study.
Biomed Pharmacother. 2012 Jun;66(4):279-84. doi: 10.1016/j.biopha.2012.01.002.

2011

8. H Cao, Q Li, M Li, **Røe OD**, Z Wu, Q Zhou, B Cao, B Chen, Y Chen, D Wang[†] Osteoprotegerin/RANK/RANKL axis and atrial remodeling in mitral valvular patients with atrial fibrillation: *Int J Cardiol.* 2013 Jul 1;166(3):702-8. doi: 10.1016/j.ijcard.2011.11.099

7. Cao H, Wang J, Xi L, **Røe OD**, Chen Y, Wang D: Dysregulated atrial gene expression of

osteoprotegerin/receptor activator of nuclear factor- κ B (RANK)/RANK ligand axis in the development and progression of atrial fibrillation.
Circ J. 2011;75(12):2781-8. *Epub 2011 Oct 15.*

6. I. Tsamardinos, G. Borboudakis, E. G. Christodoulou, O. D. Røe:

Chemosensitivity Prediction of Tumours Based on Expression, miRNA, and Proteomics Data
Computational Intelligence Applications in Bioinformatics Workshop (12th EANN(IEEE) /7th AIAI (IFIP), April 2011)

2010

5. Sandeck HP, Røe OD, Kjærheim K, Willén H, Larsson E. Re-evaluation of histological diagnoses of malignant mesothelioma by immunohistochemistry.
Diagn Pathol. 2010 Jul 6;5:47. doi: 10.1186/1746-1596-5-47.

4. Røe OD, Anderssen E, Sandeck H, Christensen T, Larsson E, Lundgren S.

Malignant pleural mesothelioma: Genome-wide expression patterns reflecting general resistance mechanisms and a proposal of novel targets.

Lung Cancer. 2010 Jan;67(1):57-68. doi: 10.1016/j.lungcan.2009.03.016.

2009

3. OD Røe, E Anderssen, E Helge, CH Pettersen, KS Olsen, H Sandeck, R Haaverstad, S Lundgren, E Larsson, Genome-wide profile of pleural mesothelioma versus parietal and visceral pleura: The emerging gene portrait of the mesothelioma phenotype.
PLoS One. 2009 Aug 7;4(8):e6554. doi: 10.1371/journal.pone.0006554.

2008

2. Røe OD, Creaney J, Lundgren S, Larsson E, Sandeck H, Boffetta P, Nilsen TI, Robinson B, Kjaerheim K. Mesothelin-related predictive and prognostic factors in malignant mesothelioma: A nested case-control study.

Lung Cancer. 2008 Aug;61(2):235-43. doi: 10.1016/j.lungcan.2007.12.025

2007

1. Kjaerheim K, Røe OD, Waterboer T, Sehr P, Rizk R, Dai HY, Sandeck H, Larsson E, Anderssen A, Boffetta P, Pawlita M. Absence of SV40 antibodies or DNA fragments in prediagnostic mesothelioma serum samples.

Int J Cancer. 2007 Jun 1;120(11):2459-65.

Proceedings (full-paper reviewed)

1. Christodoulou, E. G., Røe, O. D., Folarin, A., & Tsamardinos, I. (2011). Information-Preserving Techniques Improve Chemosensitivity Prediction of Tumours Based on Expression Profiles. 12th Engineering Applications of Neural Networks (EANN) / 7th Artificial Intelligence Applications and Innovations (AIAI) joint conferences, Workshop on Computational Intelligence Applications in Bioinformatics (CIAB 2011). 15-18 September, Corfu, Greece. (pp. 453-462). Springer Boston

2. Tsamardinos, I., Røe, O. D., & Lagani, V. (2011). Introducing Integrative Causal Analysis for Co-Analyzing Heterogeneous Studies with an Application to Methylation and Gene Expression Mesothelioma Cancer Data. 6th Conference of the Hellenic Society for Computational Biology and Bioinformatics (HSCBB11). October, Patras, Greece.

Thesis

Røe OD, Malignant Mesothelioma: Virus, Biomarkers and Genes - a Translational Approach. PhD Thesis. Norwegian University of Science and Technology, Faculty of

Medicine, Institute of Cancer Research and Molecular Medicine & Institute of Laboratory Medicine, Children's and Women's Health, Trondheim 2008. Dissertations at the Faculty of Medicine, ISSN 0805-7680; 370 ISBN 978-82-471-1248-9

Dissemination-popularized

7. Røe OD, På vei mot en klassedelt kreftomsorg? Presentation at HUNT 27.05.16
file:///Users/olufdimitriroe/Downloads/20160527_inv_klassedelt-kreftomsorg.pdf

6. Røe OD, Kan ha funnet nøkkel-molekyl til lungekreft, Interview, Trønder-Avisa, 2015

5. Røe OD, Tror fire ganger flere vil overleve lungekreft, Interview, Adressa, 2015

4. Røe OD, Malignant pleural mesothelioma- history, controversy, and future of a man-made epidemic Book chapter to be published by Springer Verlag, "The Asbestos Legacy" edited by Joseph Testa, Fox Chase Cancer Center, USA.

3. Røe, OD; Falkmer, U.

Asbestos : Lessons learnt. Pan European Networks: Science and Technology, Vol. 17, 2015,
s. 226-227.

2. K Kerkentzes, V Lagani, M Vyberg, I Tsamardinos, OD Røe

Skjulte skatter i "gamle" microarrays - Genprofiling portretterer biologi og resistensmekanismer i lungekreft og normalvev.

Best Practice, August 2015

1.Røe OD,

Reisebrev fra Kina: **Felles forskning på asbest-relatert kreft**

<http://www.universitetsavisa.no/leserbrev/article38141.ece>

Manuscripts

1. Chen Wu, Xiaofei Zhi, Yansu Chen, Yijiang Chen, Shu Yongqiang , Xu Zekuan, Jianwei Zhou, Oluf D. Røe

Non-toxic suppression of two DNA repair pathways sensitizes lung cancer and mesothelioma cell lines to cisplatin.

2. BE Røe, OD Røe Asbestos, Architecture and Cancer: Innovative marketing of asbestos-cement products 1956-79.

Abstracts

20. Panou V, Nielsen I, Sørensen JB, Røe OD,
Pemetrexed as first or second line in 112 Danish patients. ASCO, Chicago, USA June 2016, J Clin Oncol 34, 2016 (suppl; abstr e20084)

19. OD Røe, Robin Mjelle, Maria Markaki, Trygve Andreassen, Vincenzo Lagani, Ioannis Tsamardinos, Tone Bathen, Pål Sætrom, Kristian Hveem

Serum microRNAs/enriched pathways in lung cancer 1-4 years before diagnosis: A pilot study from the HUNT Biobank, Norway.
ASCO, Chicago, USA June 2016, J Clin Oncol 34, 2016 (suppl; abstr 11539)

18. Robin Mjelle, Maria Markaki, Trygve Andreassen, Vincenzo Lagani, Ioannis Tsamardinos, Tone Bathen, Pål Sætrom, Kristian Hveem, **OD Røe**
Serum biomarkers in mesothelioma 1-3 years before diagnosis
-a pilot study IMIG Birmingham, UK May 2016

17. Kerkentzes K, Mjelle R, **Røe OD**
MicroRNA miR-615-3p and let-7b targets multiple key pathways overexpressed in lung adenocarcinoma
IASLC, Sept. 2015, Denver, USA

16. Zhibin G, Hiroshima K, **Røe OD**, Morinaga K
Asbestos textile production linked to malignant peritoneal and pleural mesothelioma in women: Analysis of 28 cases in Southeast China
IMIG 2014, Cape Town

15. Panou V, Omland Ø, Vyberg M, **Røe OD**
Overrepresentation of malignant peritoneal mesothelioma among females in a cohort of 296 danish patients
IMIG 2014, Cape Town

14. R Mjelle, T Andreassen, V Lagani, K Kerkentzes, I Tsamardinos, TF Bathen, E Larsson, **OD Røe**, “Hunting” for lung-cancer / mesothelioma early diagnostic biomarkers: results of a pilot analysis from the Cancer-Biomarker-HUNT study.
IMIG 2014, Cape Town

13. Oluf Dimitri Røe, Bjørn Edin Røe
AC- International Asbestos Cement Review 1955-78: The asbestos industry using world-renowned architects to showcase and increase popularity of asbestos construction materials.
IMIG 2014, Cape Town

12. Panou Vasiliki, Meristoudis Christos, **Røe Oluf Dimitri**
Malignant mesothelioma in Aalborg, North Denmark. Pathology records of the Aalborg University Hospital reveal 562 cases and a 13-fold increase in four decades (European Congress of Pathology).

11. Xiaofeng Chen, **Oluf D. Røe**
Postoperative leukopenia is an independent prognostic factor in resectable gastric cancer patients (ASCO, 2014).

10. Wu Chen, Xiaofei Zhi, Duan Chen, Yijiang Chen, **Oluf Dimitri Røe**
DNA repair suppression and effect of cisplatin in mesothelioma and lung cancer cell lines.
ASCO, J Clin Oncol 31, 2013 (suppl; abstr e13542)

9. Dimitris Vainas, **Oluf Dimitri Røe**, Vincenzo Lagani
Comparative evaluation of Affymetrix and Illumina genome-wide expression data in Pleural Mesothelioma, Proceedings of the 7th conference of the Hellenic Society for Computational Biology & Bioinformatics - HSCBB12 FORTH, Heraklion, Crete, Greece, 4-6/10/2012

8. Oluf Dimitri Røe, Kostas Kerkentzes
Differentially expressed genes of major lung tumour subtypes and normal lung tissue.
Proceedings of the 7th conference of the Hellenic Society for Computational Biology &

Bioinformatics - HSCBB12
FORTH, Heraklion, Crete, Greece, 4-6/10/2012

7. Gao Zhibin, Oluf Dimitri Røe

Mesothelioma cluster in a medium sized hospital in South-East China: Relations to asbestos exposure and clinicopathological findings, IMIG, Boston, USA, 2012

6. Helmut Paul Sandeck, Oluf Dimitri Røe, Kristina Kjærheim, Helena Willén, Erik Larsson
Re-evaluation of malignant mesothelioma: similar results in a Norwegian and a Japanese study despite of different approaches IMIG 2010, Kyoto, Japan

5. Oluf Dimitri Røe, Endre Anderssen, Helmut Sandeck, Erik Larsson, Mark Ladanyi
Genome-Wide Profile of Pleural Mesothelioma versus Parietal Pleura: Confirmation of the Gene Portrait of the Mesothelioma Phenotype. IMIG 2010, Kyoto, Japan

4. Røe OD, Anderssen E, Amundsen T, Sandeck H, Sundstrøm S
Acquired Chemo-resistance in mesothelioma: a case report of a long-term survivor and gene expression findings related to acquired resistance. IMIG 2010, Kyoto, Japan

3. O. D. Roe, E. Anderssen, E. Helge, C. H. Pettersen, H. Sandeck, E. Larsson, S. Lundgren
Overexpression of a set of genes in mesothelioma versus parietal pleura may explain its chemo- and radio-resistance. ASCO 2008, Chicago, USA Abstract No: 13506 J Clin Oncol 26: 2008 (May 20 suppl; abstr 13506)

2. Oluf D. Røe, Endre Anderssen, Helmut Sandeck, Erik Larsson, Steinar Lundgren.
Gene expression reflecting resistance and targets in mesothelioma: a general model of tumour resistance? IMIG 2008, Amsterdam, Holland

1. OD Røe, J Creaney, S Lundgren, E Larsson, H Sandeck, P Boffetta, TI Nilsen, B Robinson, K Kjaerheim
Pre-diagnostic Soluble Mesothelin Related Protein (SMRP), CA125, CYFRA 21-and risk of mesothelioma: a case-control study. IMIG 2006, Chicago, USA

Oral presentations

12. Panou V, Mogens V, Meristoudis C, Røe OD

BAP-1 cancer syndrome associated malignancies were not detected among 558 Danish patients with malignant mesothelioma,
IMIG, May 2016, UK

11. Panou V, Omland Ø, Meristoudis C, Hoffmann L, Røe OD

Degree of asbestos exposure predisposes to pleural or peritoneal disease in women: Malignant mesothelioma in a female population in North Jutland, Denmark
IASLC, sept. 2015, Denver, USA

10. Panou V, Omland Ø, Langhoff MD, Meristoudis C, Weinreich UM¹, Røe OD

Malignant mesothelioma in women in the Region of North Jutland, Denmark;
Non-Occupational asbestos exposure in more than 50% of the cases.
IMIG 2014, Cape Town, South Africa

9. 3rd World Congress on Cancer Science and Therapy, San Francisco, October 2013
Asbestos Cancer and Biomarker HUNT

8. IMIG2012, Boston, USA

Cell cycle checkpoint genes and homologous recombinational repair are overexpressed in malignant pleural mesothelioma

7. The 3rd Erling Seeberg symposium, June 2012 in Trondheim and Ørland, Norway
Fanconi anemia genes, RHINO and other cell cycle checkpoint genes are overexpressed in malignant pleural mesothelioma

6. IMIG 2010, Kyoto, Japan

Genome-Wide Profile of Pleural Mesothelioma versus Parietal Pleura: Confirmation of the Gene Portrait of the Mesothelioma Phenotype.

5. IMIG 2008, Amsterdam, Holland

Malignant pleural mesothelioma: Genome-wide expression patterns reflecting general resistance mechanisms and a proposal of novel targets

4. IMIG 2008, Amsterdam, Holland

Identification of new targets by genome wide profiling

3. IMIG 2006, Chicago, USA

Microarray of normal mesothelium and mesothelioma—visceral and parietal pleura has distinct gene expression profile—consequences for oncogenesis of mesothelioma?

2. IMES-TR, 2005, Antalya, Turkey

SMRP (Soluble Mesothelin Related Protein), CYFRA 21-1 and CA125 in serum 1-30 years before mesothelioma diagnosis: a case-control study.

1. Nordisk Lungekongress 2005, Trondheim, Norway

Risk of mesothelioma is not associated with the presence of SV40 antibodies or genomic fragments of SV40 in pre-diagnostic serum samples in Norway.