

Curriculum Vitae Vilde Drageset Haakensen

Persona data

Name	Vilde Drageset Haakensen
Birth	21.06.73, Oslo
Nationality	Norwegian
Marital status	Married
Children	2 (Born 2005, 2008)
Adress	Gustav Vigelandsv 36, 0274 Oslo, Norway
Current position	Senior consultant lung cancer, Dept of Oncology and post.doc Dept of Cancer Genetics, Institute for Cancer Research, Oslo University Hospital (OUH)

Education, certification and courses

2000	MD, Norwegian University of Science and Technology, Trondheim
2011	PhD, University of Oslo

Professional Employment

2000-2001	Internship, Vest-Agder hospital, surgical and medical ward
July-Dec 2001	Internship, Mandal medical center.
2002-2004	Physician, oncologic ward, The Norwegian Radium hospital.
2004-2011	PhD student, Dept of Genetics, Inst for Cancer Research, OUH Radiumhospitalet and Institute of Clinical Medicine, University of Oslo (including two maternity leaves)
2005	Research stay, Cold Spring Harbor Laboratory, USA (7 weeks)
2011-2016	Physician, Dept of Oncology and Dept of Hematology (6 months), part time post.doc. Dept of Cancer Genetics, Institute for Cancer Research, Oslo University Hospital.
Dec 2014	Expert evaluator Horizon 2020.
Jan 2017-	Permanent position senior consultant lung cancer, OUH and 50% post.doc. Inst for Cancer Research, OUH.

Supervision/teaching

1996-1998	PBL-supervisor for medical students, Norwegian University of Science and Technology, Trondheim
2003-2010	Teaching oncology nurses and radiotherapy students in tumor biology in Diakonova University College and Oslo University College.
2011-2012	Co-supervising Ivan Potapenko (medical student research program) UiO
2012-13	Teaching course for specialization in Endocrine Surgery (The Norwegian Medical Association)
2012	Teaching pathology course for bioengineers (NITO)
2015 -2017	Co-supervising PhD-student Ann-Rita Halvorsen
2015	Main supervisor Andreas Nydal (medical student) UiO

Research projects

2004-2018	Mammographic Density and Genetics. Explore molecular biology of normal breast tissue and the relation to mammographic density and risk of developing breast cancer. Including PhD and further projects. Inclusion of patients, recruitment of collaborating hospitals, lab, bioinformatics
2011-2017	GlycoHit (EU-project within FP7) N-glycome analyses of serum from breast cancer patients and healthy controls
2012-2018	The EuroCan Platform (EU-project within FP7) Collection of molecular datasets for validation large-scale analysis
2015-2019	“Quantification of Pathway analysis”
2016-	“Molecular characterisation as basis for stratified personalised treatment of lung cancer patients”
2017-	Local PI for NARLAL2 radiotherapy clinical study (Odense University Hospital)
2018-	PI and initiator of “Adaptive radiotherapy study” at OUH
2018-	Local PI for clinical study “CINC280X2105c” (Novartis)
2019-	Local PI for PACIFIC-Real World (Astra Zeneca) Local PI for KeyNote 867 (MSD)
2020-	National PI for clinical study “MS200647_0005” (Merck) National PI for clinical study “MK7339-012” (MSD)

Presentations in scientific meetings

2011: Idéfestivalen 200-års jubileet, UiO, Oslo

2012: NITO Bioingeniørfaglig Institutt Kurs i Patologi, Oslo
 2010, 2012, 2013, 2014: Presentations for the EU-project GlycoHIT
 (Madrid 2010, China 2012, Tel Aviv and Ireland 2013, Oslo 2014)
 2013: Glycankonferanse, UiO, Oslo
 2013: Glycoscience Ireland Conference, Westport, Irland
 2014: SocBin Bioinformatics conference, UiO, Oslo
 2015: GAP Young Investigators Workshop, OUH, Oslo
 2018: Invited speaker 13th Nordic Lung Cancer Symposium, Wasa, Finland.

Other experience

2007- Editor of the popular science magazine Dyade
 2016 Student thesis grader for medical student Thor-Martin Strand
 2017 2nd opponent University of Tromsø, MD Erna Elise Paulsen
 2018 Committee for evaluation of outstanding research papers, OUH
 2018 Career development course as part of the Postdoctoral Programme, UiO
 2018-2019 Leader working group for strategic advice on how to increase research time
 for physicians, Comprehensive Cancer Center, OUH
 2019 Student thesis grader for medical student Therese Omdahl
 2019 2nd opponent University of Bergen, MD Øystein Fløtten

Complete list of publications in scientific papers

2006

Vilde Drageset, Jahn M. Nesland, Bjorn Erikstein, Eva Skovlund, Hilde Sommer, Gunn Anker, Erik Wist, Steinar Lundgren, Jonas Bergh and Gunnar Kvalheim. Remaining Minimal Residual Disease After Adjuvant High Dose Chemotherapy in High Risk Stadium II Breast Cancer Significantly Predicts Outcome. Int J Cancer. 2006 Jun 1;118(11):2877-81.

2009

Ivan O. Potapenko, Vilde D. Haakensen, Aslaug Aamodt Muggerud, Torben Lüders, Åslaug Helland, Ida Bukholm, Therese Sørli, Vessela N. Kristensen, Ole C. Lingjærde, Anne-Lise Børresen-Dale. Glycan gene expression signatures distinguish normal and malignant breast tissue; possible role in diagnosis and progression. Mol Onc. 2009 Dec 11.

2010

Vilde D Haakensen, Margarethe Biong, Ole Christian Lingjærde, Marit Muri Holmen, Jan Ole Frantzen, Ying Chen, Dina Navjord, Linda Romundstad, Torben Lüders, Ida K Bukholm, Hiroko K Solvang, Vessela N Kristensen, Giske Ursin, Anne-Lise Børresen-Dale, Åslaug Helland. Expression levels of UGT genes in breast tissue are associated with mammographic density in healthy women. Br Ca Res, 2010, Aug.

2011

Vilde D Haakensen, Trine Bjørø, Torben Lüders, Margit Riis, Ida K Bukholm, Vessela N Kristensen, Melissa A Troester, Giske Ursin, Anne-Lise Børresen-Dale, Åslaug Helland. Influence of serum estrogen on gene expression in normal breast tissue; possible relations to breast cancer risk. BMC Cancer. 2011 Aug 3;11(1):332

Vilde D Haakensen, Ole Christian Lingjærde, Torben Lüders, Margit Riis, Aleix Prat, Melissa A Troester, Marit Muri Holmen, Jan Ole Frantzen, Linda Romundstad, Dina Navjord, Ida K Bukholm, Tom Johansen, Charles M Perou, Giske Ursin, Vessela N Kristensen, Anne-Lise Børresen-Dale, Åslaug Helland. Gene expression profiles of breast biopsies from healthy women identify a group with claudin-low features. BMC Med Genomics. Nov 1;4:77

2012

Kristensen VN, Vaske CJ, Ursini-Siegel J, Van Loo P, Nordgard SH, Sachidanandam R, Sørлие T, Wärnberg F, Haakensen VD, Helland Å, Naume B, Perou CM, Haussler D, Troyanskaya OG, Børresen-Dale AL. Integrated molecular profiles of invasive breast tumors and ductal carcinoma in situ (DCIS) reveal differential vascular and interleukin signaling. Proc Natl Acad Sci U S A. 2012 Feb 21;109(8):2802-7.

Riis ML, Lüders T, Markert EK, Haakensen VD, Nesbakken AJ, Kristensen VN, Bukholm IR. Molecular profiles of pre- and postoperative breast cancer tumours reveal differentially expressed genes. ISRN Oncol, 2012.

Vilde D Haakensen, Åslaug Helland. Mammografitetthet og hormoner. Best Practice. 2012 March, 6: 46.

2013

Choudhury S, Almendro V, Merino VF, Wu Z, Maruyama R, Su Y, Martins FC, Fackler MJ, Bessarabova M, Kowalczyk A, Conway T, Beresford-Smith B, Macintyre G, Cheng YK, Lopez-Bujanda Z, Kaspi A, Hu R, Robens J, Nikolskaya T, Haakensen VD, Schnitt SJ, Argani P, Ethington G, Panos L, Grant M, Clark J, Herlihy W, Lin SJ, Chew G, Thompson EW, Greene-Colozzi A, Richardson AL, Rosson GD, Pike M, Garber JE, Nikolsky Y, Blum JL, Au A, Hwang ES, Tamimi RM, Michor F, Haviv I, Liu XS, Sukumar S, Polyak K. Molecular Profiling of Human Mammary Gland Links Breast Cancer Risk to a p27(+) Cell Population with Progenitor Characteristics. Cell Stem Cell. 2013 Jul 3;13(1):117-30

2014

Radka Saldova*, Akram Asadi Shehni*, Vilde D. Haakensen*, Israel Steinfield, Mark Hilliard, Ilona Kifer, Åslaug Helland, Zohar Yakhini, Anne-Lise Børresen-Dale, Pauline M Rudd. Association of N-glycosylation with breast carcinoma and systemic features using high resolution quantitative UPLC. J Proteome Res. 2014 Mar 27

Thomas Fleischer, Arnoldo Frigessi, Kevin C. Johnson, Hege Edvardsen, Nizar Touleimat, Jovana Klajic, Margit L.H. Riis, Vilde D. Haakensen, Fredrik Warnberg, Bjorn Naume, Aslaug Helland, Anne-Lise Borresen-Dale, Jorg Tost6, Brock C. Christensen and Vessela N. Kristensen. Genome-wide DNA methylation profiles in progression to in situ and invasive carcinoma of the breast with impact on gene transcription and prognosis. Genome Biology. Aug 2014.

2015

Potapenko IO, Lüders T, Russnes HG, Helland Å, Sørлие T, Kristensen VN4, Nord S, Lingjærde OC, Børresen-Dale AL, Haakensen VD. Glycan-related gene expression signatures in breast cancer subtypes; relation to survival. Mol Oncol. 2015 Jan 14; 1574-7891.

Hatef Darabi, Karen McCue, [...] Vilde Haakensen, [...], Anne-Lise Borresen-Dale, Vessela Kristensen, Juliet D. French, Stacey L. Edwards, Alison M. Dunning, Douglas F. Easton, Per Hall,1

and Georgia Chenevix-Trench. Polymorphisms in a Putative Enhancer at the 10q21.2 Breast Cancer Risk Locus Regulate NRBF2 Expression. *The American Journal of Human Genetics* (2015).

Michailidou K, Beesley J[...], Pharoah PP, Kraft P, Dunning AM, Chenevix-Trench G, Hall P, Easton DF. with Collaborators : including Haakensen V. Genome-wide association analysis of more than 120,000 individuals identifies 15 new susceptibility loci for breast cancer. *Nat Genet.* 2015 Apr; 47(4):373-80.

Vilde D. Haakensen, Israel Steinfeld, Radka Saldova, Akram Asadi Shehni, Ilona Kifer, Bjørn Naume, Pauline M. Rudd, Anne-Lise Børresen-Dale, Zohar Yakhini. Serum N-glycan analysis in breast cancer patients – Relation to tumour biology and clinical outcome. *MolOnc.* 2015 Aug.

2016

Alison M. Dunning^{1,198}, Kyriaki Michailidou^{2,198}, Karoline B. Kuchenbaecker^{2,198}, Deborah [...] Vilde Haakensen [...] Thompson^{2,198}, Juliet D. French^{3,198}, Jonathan Beesley^{3,198}, Catherine S. Healey Douglas F. Easton, Stacey L. Edwards. Breast cancer risk variants at 6q25 display different phenotype associations and regulate ESR1, RMND1 and CCDC170. *Nature Genetics*, 2016.

Vilde D Haakensen*, Vegard Nygaard*, Liliana Gregers *, Miriam R Aure, Bastian Fromm, Ida R K Bukholm, Torben Lüders, Suet-Feung Chin, Anna Git, Carlos Caldas, Vessela N Kristensen, Alvis Brazma, Anne-Lise Børresen-Dale, Eivind Hovig, Åslaug Helland. Micro-RNA expression signatures in breast cancer progression: a meta-analysis. *Int J Cancer*, April 15, 2016.

Espinoza JA, Jabeen S, Batra R, Papaleo E, Haakensen V, Timmermans Wielenga V, Møller Talman ML, Brunner N, Børresen-Dale AL, Gromov P, Helland Å, Kristensen VN, Gromova I. Cytokine profiling of tumor interstitial fluid of the breast and its relationship with lymphocyte infiltration and clinicopathological characteristics. *Oncoimmunology*. 2016 Oct

Eide HA, Halvorsen AR, Sandhu V, Fåne A, Berg J, Haakensen VD, Kure EH, Brustugun OT, Kiserud CE, Kyte JA, Helland Å. Non-small cell lung cancer is characterised by a distinct inflammatory signature in serum compared with chronic obstructive pulmonary disease. *Clin Transl Immunology*. 2016 Nov 2

2017

Ann Rita Halvorsen, Åslaug Helland, Pavel Gromov, Vera Timmermans Wielenga, Maj-Lis Møller Talman, Nils Brunner, Vandana Sandhu, Anne-Lise Børresen-Dale, Irina Gromova, Vilde D. Haakensen. Profiling of microRNAs in tumor interstitial fluid of breast cancer patients- a novel resource for biomarker with impact on survival. Manuscript for submission in *Cancer Research*. *MolOnc*, Feb, 2017.

Saldova R, Haakensen VD, Rødland E, Walsh I, Stöckmann H, Engebraaten O, Børresen-Dale AL, Rudd PM. Serum N-glycome alterations in breast cancer during multimodal treatment and follow-up. *MolOnc*, June, 2017.

Dannenfelser R, Nome M, Tahiri A, Ursini-Siegel J, Vollan HKM, Haakensen VD, Helland Å, Naume B, Caldas C, Børresen-Dale AL, Kristensen VN, Troyanskaya OG. Data-driven analysis of immune infiltrate in a large cohort of breast cancer and its association with disease progression, ER activity, and genomic complexity. *Oncotarget*, July, 2017.

2018

Terkelsen T, Haakensen VD, Saldova R, Gromov P, Hansen MK, Stöckmann H, Lingjaerde OC, Børresen-Dale AL, Papaleo E, Helland Å, Rudd PM, Gromova I.

N-glycan signatures identified in tumor interstitial fluid and serum of breast cancer patients: association with tumor biology and clinical outcome. *Mol Oncol*. 2018 Jun;12(6):972-990.

Shakila Jabeen, Jaime A. Espinoza, Lilly Anne Torland, Manuela Zucknick, Surendra Kumar, Vilde D. Haakensen, Torben Lüders, Olav Engebraaten, Anne-Lise Børresen-Dale, Jon Amund Kyte, Pavel Gromov, Bjørn Naume, Vessela Kristensen, Irina Gromova & Xavier Tekpli. Noninvasive profiling of serum cytokines in breast cancer patients and clinicopathological characteristics. *Oncoimmunology*. Nov 2018.

2019

Helga Bergholtz, Tonje Gulbrandsen Lien, Giske Ursin, Marit Muri Holmen, Åslaug Helland, Therese Sørli, Vilde Drageset Haakensen. A longitudinal study of the association between mammographic density and gene expression in normal breast tissue. *Journal of Mammary Gland Biology and Neoplasia*, Jan 2019.

Dörk, T., Peterlongo, P., Mannermaa, A.[...] ABCTB Investigators, NBCS Collaborators (V.D. Haakensen) et al. Two truncating variants in FANCC and breast cancer risk. *Scientific Reports*, Aug 2019

Ståle Nygård, Ole Christian Lingjærde, Carlos Caldas, Eivind Hovig, Anne-Lise Børresen-Dale, Åslaug Helland, Vilde D Haakensen. PathTracer: High-sensitivity detection of differential pathway activity in tumours. *Scientific Reports* Oct 2019.

2020

Vilde D Haakensen, Anand Khadse, Vandana Sandhu, Ann Rita Halvorsen, Lars Jørgensen, Steinar Solberg, Odd Terje Brustugun, Elin Kure, Åslaug Helland. Molecular characterisation of subgroups of lung squamous cell carcinomas to identify putative targets for therapy. *Int J Cancer*.

Thilde Terkelsen, Maria Pernemalm, Pavel Gromov, Anna-Lise Børresen-Dale, Anders Krogh, Vilde D. Haakensen, Janne Lethiö, Elena Papaleo, Irina Gromova. High throughput proteomics of breast cancer interstitial fluid: identification of tumor subtype-specific serologically relevant biomarkers. *Molecular Oncology*.

Manuscripts:

Vilde Drageset Haakensen, Solfrid M H Thunold, Geeta Gulati. Immunotherapy-induced severe myocarditis and myositis requires awareness and rapid treatment. To be submitted to *Lung Cancer*

Maria Moksnes Bjaanæs, Erlend Peter Skaug Sande, Øyvind Loe, Christina Ramberg, Tove Mette Næss, Andreas Ottestad, Lotte V. Rogg, Jørund Graadal Svestad, Vilde Drageset Haakensen. Adaptive radiotherapy for locally advanced lung cancer – quality improvement and case presentations. To be submitted to *Annals of Oncology*

Book chapters

Vilde D. Haakensen, Tone Ikdahl, Åslaug Helland, Anne-Lise Børresen-Dale. Tumorbiologi. Kreftsykammer. Red: Eirik Wist og Rolf Kåresen. Gyldendal forlag. Oslo, 2012.

Popular science papers

Vilde Drageset Haakensen. En ny tid for lungekreftbehandling. PUST. 2018

Vilde D Haakensen og Erlend P S Sande. Adaptiv strålebehandling - tilpasning til endringer underveis. HMT-magasinet (Helse | Medisin | Teknologi). Sept 2019.

Maria M Bjaanæs and Vilde D Haakensen. Strålebehandling av lungemetastaser. Des 2019.