

Vanessa Dumeaux, PharmD, PhD

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SUMMARY

Data science and molecular biology expert with over 20 years' experience in combining basic molecular biology, novel technology and statistical / computational approaches to health-related research. Proven track record for working in multi-disciplinary teams. Solution-focused leader capable of translating complex problems into executable plans. Dedicated and accountable professional with a passion for translating biological discoveries to human health impact.

PROFESSIONAL EXPERIENCE

Concordia University

Montreal, QC

Affiliate Assistant Professor, Department of Biology

June 2019 – Present

Research Scientist, PERFORM Center, Concordia University

Nov 2017 – Present

- Lab webpage: <https://lab-dumeaux.science/>
- Research lead of the microbiome2brain project: an exercise intervention trial to identify changes in the gut microbiome associated with improved brain health
- Identification of molecular processes predictive of response to therapy in breast cancer: collaborative effort investigating response to radiotherapy treatment of in-situ tumors (CIHR funded, one paper) ; lead researcher in the identification of systemic immune responses predictive of response to therapy in Her2+ breast cancer
- Establishment of a cost-effective single-cell profiling platform providing a quantitative and ultrahigh-resolution snapshot of cell and molecular states composing a human tissue or other biosystem (eg C. albicans, one preprint). Further tailoring of the platform to perform multi-modal measurements in single cells including simultaneous RNA and immune receptor sequencing or chromatin accessibility profiles to cater to the needs of ongoing projects.
- Identification of molecular markers of infertility in sperm (one patent ; three publications)
- Lead researcher for bioinformatics analysis in diverse collaborative projects: investigation of epigenetic regulation of brain or placental cell development (2 papers) ; transcriptional changes involved in C. albicans functions (2 papers)

Dumeaux Data Science

Montreal, QC

Research and Data Consultant

Jan 2017 – Present

- Web: <https://dumeaux.science/>
- Provide pragmatic sound bioinformatics, biostatistical and project management assistance with all stages of research projects.
- Current projects involved analyses of next-generation sequencing data, project management, and mentoring of students to improve their technical skills in bioinformatics.

Concordia University

Montreal, QC

Senior Researcher, Computational Biology Laboratory

Jan 2017 – Oct 2017

- Development of software packages that contain the computational and statistical methods for identifying and exploring associations between sets of genes or molecular processes across matched tissues (MIxT: <https://github.com/vdumeaux/mixtR>) and provide a framework for building web applications that allow users to view and explore these results, and to submit queries of gene, gene sets, and pathway of interest (<https://github.com/vdumeaux/mixtApp>).

- Creation of two resources websites to explore blood-tumour interactions (<http://mixt-blood-tumor.bci.mcgill.ca/>) and tumor-stroma interactions in breast cancer (<https://mixt-tumor-stroma.bci.mcgill.ca/>).
- Consulting scientist for Genomic Health Inc, Redwood City, CA.

McGill university

Montreal, QC

Senior Researcher, Breast Cancer Informatics Laboratory

November 2014 – 2017

- Research lead for the Matched Interaction Across Tissues Program: Development of a novel computational methodology for identifying and exploring associations between sets of genes or molecular processes across tissues. Successfully identified genes and pathways in the primary breast tumor that are tightly linked to genes and pathways in the patient systemic response. Resulted in a web application, publication and several invited oral presentations.
- Co-supervision and mentoring of undergraduate and graduate students resulted in several publications.
- Continued development of a blood-based diagnostic test for breast cancer. Assist in the design of a Norwegian trial that compares our diagnostic test to standard of care.

Affiliate Assistant Professor, Department of Oncology

2011 – 2014

- R&D lead of a blood-based diagnostic test for breast cancer in collaboration with Norinova Technology Transfer AS and Zacco IP firm in Norway: resulted in a grant funding (Proof of Concept grant, European Research Council, PI: Lund)
- Regional academic collaboration (Michael Hallett, McGill University), resulted in a grant funding from Canadian Cancer Society Research Institute and several publications. Established that the prognosis of about 20% of breast cancers are difficult to assess using only molecular properties of the tumor.
- International collaboration with the Norwegian Women and Cancer study (NOWAC). Lead researcher for bioinformatics analysis for NOWAC. Mentoring of graduate students and post-doctoral fellows to improve their technical skills in bioinformatics.
- Collaboration with international academic consortium: The European Prospective Investigation into Cancer and Nutrition and the Public Population Project in Genomics and society. Resulted in several publications.
- Development of a 40-hour lecture course providing fundamental aspects of epidemiology and biostatistics, and genomics especially with respect to large epidemiological cohorts, and bioinformatics analysis techniques relevant to such studies.
- Guest lecturer for the Computational Cancer Biology course (McGill) and for the Molecular and Clinical aspects of Cancer (Tromso).
- Member of Advisory Board in McGill Systems Biology Training Program.
- Reviewer and member of research advisory PhD thesis committees (Université de Montreal, McGill)

Associate Member, Department of Epidemiology, Biostatistics and Occupational Health

2013 – 2014

- Member of the MSc Epidemiology Admissions Committee
- Small group teaching for the undergraduate medical program in clinical epidemiology
- Research mentor in the McGill MD,CM curriculum

Visiting Research Scientist, The Goodman Cancer Center

2010 – 2011

- Research lead for a blood-based diagnostic test for breast cancer: successful identification of a robust and reproducible diagnostic signal specific to breast cancer reflecting an overall systemic immunosuppression of the patient. Resulted in a patent and a publication
- Peer review for EU-CORDIS Cooperation agency: Translational research in cancer: from basic to clinical research.

Maternity leave

2009 – 2010

Paris V University*Visiting post-doctoral fellow, Department of Applied Mathematics*

Development of a novel statistical methodology for the sensitive detection of low amplitude changes in blood profiles across healthy individuals. Determined the inter-individual variability in blood gene expression profiles and established the feasibility of blood gene expression profiling for disease diagnosis or prognosis.

Paris, France*Fall 2008 – 2009***Princeton University***Visiting post-doctoral fellow, Lewis-Sigler Institute for Integrative Genomics*

Establishment of a tissue-specific knowledge database to build context-specific functional relationship networks. Resulted in a publication.

Princeton, NJ*2008 – Fall 2008***Oslo University***Visiting post-doctoral fellow, Department of Genetics*

Sustained effort to investigate hormonal carcinogenesis using prospective observational data or as part of the European Prospective Investigation into Cancer and Nutrition (EPIC) collaboration. Identify blood-based gene expression signatures in response to diverse exposures and health status including breast cancer. Co-supervision and mentoring of graduate students: identification of systemic biological processes deregulated in breast cancer survivors experiencing late side-effects of radiotherapy including chronic fatigue and fibrosis. Resulted in several publications

Oslo, Norway*2005 – 2008***ACSO preparatory school of pharmacy***Teacher*

Small group teaching and exams practice in physiology-embryology and botany for the pharmacy entrance exams.

Poitiers, France*1997 – 2000***Pharmacie des Arcades***Pharmacy assistant***La Rochelle, France***Summer 1999***EDUCATION**

PARIS XI UNIVERSITY AND THE ARCTIC UNIVERSITY OF NORWAY**France & Norway***PhD Molecular epidemiology**2002 – 2005*

PhD Thesis: Exposure to exogenous hormones in women: risk factors for breast cancer and molecular signature

First Class Honors

Successfully identified breast cancer risks specific to different types of oral contraceptives and menopausal treatments. Established a large blood and tumor biobank within a nation-wide Norwegian Women and Cancer (NOWAC) cohort study to integrate the molecular aspects of the disease within the context of the patient and the population. Developed several proofs of concept studies and evaluated laboratory protocols to sensitively investigate molecular changes in circulating blood cells for biomarker discovery. Resulted in several publications.

VICTOR-SEGALEN UNIVERSITY**Bordeaux, France***MSc Epidemiology and Intervention in Public Health**2002*

MSc Thesis: Breast cancer and specific types of oral contraceptives: a large Norwegian cohort study.

First Class Honors

POITIERS UNIVERSITY**Poitiers, France***Doctorate in Pharmacy**1995 – 2002*

PhamD Thesis : Contraceptifs oraux et cancer du sein : le risque est-il le même avec les estrogènes et les progestagènes ?

First Class Honors

PATENTS

Methods for identifying epigenetic modifications in sperm diagnosing infertility and identifying treatment strategies (inventor 30%, US 63/091,084 filed Oct 13, 2020)

Gene expression profile in diagnostics (inventor 50%, PCT/NO2013/050203, US Patent 14/646,010)

SELECTED ORAL PRESENTATIONS (INVITED) & SERVICES

Doctoral committee member, Institute for Research in Immunology and Cancer, 2019

Seminar, Department of Health, Kinesiology and Applied Physiology, Concordia, 2019

Talk, Workshop “Systems Genetics of Cancer”, Oregon Health & Science University, Portland, 2018

Seminar, MSc tumor immunology, Radboud University Medical Center, The Netherlands, 2018

Talk, CRCHUM, Montreal, 2018

Talk, Genomic Health Inc, Redwood City, CA, 2017

Talk, 16th Annual McGill Workshop on Bioinformatics, Holetown, Barbados 2017

Talk, Molecular Interception of Disease Symposium, Doha, Qatar, 2016

Talk, v15th Annual McGill Workshop on Bioinformatics, Holetown, Barbados 2016

Talk, Workshop ”Systems Genetics of Cancer”, Cambridge, UK, 2015

Flash talk, Canadian Cancer Research Conference, Toronto, ON, 2013

RESEARCH AWARDS AND FUNDING

Under review[n=3]

Principal Applicant Testing a novel exercise regimen that modifies the microbiota towards improved cognitive function in elderly individuals, Grant, Operating

Funding Source:

2021/02-2024/02 Weston Brain Foundation
Total Funding – 1,500,000 (Canadian dollar)

Other Applicants : Simon Bacon, Linda Booij, Tamara Cohen, Thien Thanh Dang-Vu, Najmeh Khalili-Mahani, Michael Hallett, Tom Hazell

Co-applicant The heterogeneous behavior of individual bacteria and fungi cells, Grant, Team

Funding Source:

2021/02 - 2024/02 Fonds Nature et Technologies
Total Funding –230,000 (Canadian dollar)

Other Applicants : Michael Hallett, Malcolm Whiteway, Brandon Findlay

Collaborator Dissecting drug tolerance in the opportunistic human pathogen *Candida albicans*: a novel approach to combinatorial therapies targeting population heterogeneity, Grant, Operating

Funding Source:

2021/02 - 2026/03 CIHR Project Grant

Total Funding – 1,185,000 (Canadian dollar)
Principal Applicants : Michael Hallett, Malcolm Whiteway

Awarded [n=2]

Co-applicant High-resolution mapping of cancer immunity for HER2+ breast cancer patients, Grant, Operating
Funding Source:
2020/04-2022/03 Concordia University OVPGRS, Team Accelerator Program
Total Funding - 40,000 (Canadian dollar)
Other Applicants : Michael Hallett, Peter Darlington

Co-applicant DCIS-Precise: A Genomics-Driven Model for Predicting DCIS Response to Radiation, Grant, Operating
Funding Source:
2018/4 - 2022/3 CIHR Project Grant
Total Funding - 910,352 (Canadian dollar)
Portion of Funding Received - 1 (Canadian dollar)
Principal Applicants : Eileen Rakovitch; Michael Hallett

Completed [n=7]

Principal Applicant Enhancing molecular biology research in human health at the PERFORM Centre, Grant, Equipment
Funding Source:
2019/03-2020/03 PERFORM Centre, Equipment
Total Funding – 75,000 (Canadian dollar)
Other Applicants: Thien Thanh Dang-Vu, Peter Darlington, Tamara Cohen, Jean-Philippe Gouin, Michael Hallett, Marie-Eve Rivard, Sylvia Santosa

Principal Applicant Contribution of the brain-gut-microbiota axis in health benefits associated with exercise, Grant, Operating
Funding Source:
2019/03-2020/03 PERFORM Centre, Starting Project Funds
Total Funding – 25,000 (+25,000 in-kind) (Canadian dollar)
Other Applicants: Simon Bacon, Linda Booij, Tamara Cohen, Najmeh Khalili-Mahani, Michael Hallett, Tom Hazell

Co-applicant High-resolution mapping of cancer immunity for HER2+ breast cancer patients, Grant, Operating
Funding Source:
2020/03-2021/03 Concordia University OVPGRS, Team Start-Up Program
Total Funding - 20,000 (Canadian dollar)
Other Applicants : Michael Hallett, Peter Darlington

Collaborator Next generation predictive signatures for breast cancer, Grant, Operating
Funding Source:
2010/7 - 2013/7 Genome Quebec, Genomics Research in Human Health
Total Funding - 1,449,560 (Canadian dollar)
Portion of Funding Received - 1 (Canadian dollar)
Principal Applicant : Michael Hallett

Principal Applicant Interactions between the tumour-microenvironment and the systemic response of breast cancer patients, Grant, Operating

Funding Source:

2014/8 - 2017/8 Canadian Cancer Society Research Institute (CCSRI)
Total Funding - 199,860 (Canadian dollar)
Portion of Funding Received - 199,860 (Canadian dollar)

Co-Applicant : Michael Hallett

Co-applicant

A gene expression test in blood for breast cancer, Contract

Funding Source:

2015/4 - 2016/9 European Research Council (ERC), Proof of concept
Total Funding - 150,000 (Euro)
Portion of Funding Received - 40,000 (Euro)

Principal Applicant: Eiliv Lund

Co-applicant

Transcriptomics in cancer epidemiology, Contract

Funding Source:

2009/9 - 2014/9 European Research Council (ERC), IDEAS
Total Funding - 2,900,000 (Canadian dollar)
Portion of Funding Received - 450,000 (Canadian dollar)

Principal Applicant : Eiliv Lund

PUBLICATIONS

Names of (co-)supervised student are underlined

Lambrot R, Chan D, Shao X, Aarabi M, Moskovtsev S, Librach C, Trasler J, **Dumeaux V***, Kimmins S*. Whole genome sequencing of H3 lysine 4 tri-methylation and DNA methylation in human sperm reveals regions of overlap and exclusion linked to fertility, development and epigenetic inheritance. Cell Reports (under review) - *co-corresponding author

Costa ACBP, Omran RP, Law C, **Dumeaux V**, Whiteway M. The *Candida albicans* MEKK Ste11 has both structural and enzymatic functions in opaque cells under pheromone stimulation. Genetics (under review)

Lismer A, Lafleur C, Siklenka K, Lambrot R, Brind'Amour J, Lorincz M, **Dumeaux V**, Kimmins S. Histone H3 lysine 4 trimethylation in sperm is transmitted to the embryo and implicated in diet-induced phenotypes in offspring. Developmental Cell (major revisions)

Lismer A, Siklenka K, Lafleur C, **Dumeaux V***, Kimmins S*. Sperm histone H3 lysine 4 trimethylation is altered in a genetic mouse model of transgenerational epigenetic inheritance. Nucleic Acid Research (in press) - *co-corresponding author

Tamming RJ, **Dumeaux V**, Jiang Y, Shafiq S, Langlois L, Ellegood J, Qiu LR, Lerch JP, Bérubé NG. Atrx deletion in neurons leads to sexually-dimorphic dysregulation of miR-137 and spatial learning and memory deficits. Cell Reports 2020; 31:e107838.

Bhattad GJ, Jeyarajah MJ, McGill MG, **Dumeaux V**, Okae H, Arima T, Lajoie P, Bérubé NG, Renaud S. Histone deacetylase 1 and 2 drive differentiation and fusion of progenitor cells in human placental trophoblasts. Cell Death and Disease 2020;11:311.

Bettauer V, Massahi S, Khurdia S, Costa ACBP, Omran RP, Khosravi N, Simpson S, Harb M, **Dumeaux V**, Whiteway M, Hallett MT. *Candida albicans* exhibits distinct cytoprotective responses to anti-fungal drugs that facilitate the evolution of drug resistance. Biorxiv 2020.

Rakovitch E, Sutradhar R, Hallett M, Thompson AM, Gu S, **Dumeaux V**, Whelan TJ, Paszat L. The time-varying effect of radiotherapy after breast-conserving surgery for DCIS. *Breast cancer research and treatment* 2019; 178: 221–230.

Costa ACBP, Omran RP, Correia-Mesquita TO, **Dumeaux V**, Whiteway M. Screening of *Candida albicans* GRACE library revealed a unique pattern of biofilm formation under repression of the essential gene ILS1. *Scientific reports* 2019; 9:918

Islam A, Tebbji F, Mallick J, Regan H, **Dumeaux V**, Omran RP, Whiteway M. Mms21: A Putative SUMO E3 Ligase in *Candida albicans* That Negatively Regulates Invasiveness and Filamentation, and Is Required for the Genotoxic and Cellular Stress Response. *Genetics* 2019;211:579-95.

Fjukstad B, **Dumeaux V**, Hallett M, Bongo LA. Reproducible Data Analysis Pipelines for Precision Medicine. *Biorxiv* 2018

Traboulsi T, El Ezzy M, **Dumeaux V**, Audemard E, Mader S. Role of SUMOylation in differential ER α transcriptional repression by SERMs and pure antiestrogens in breast cancer cells. *Oncogene* 2018 (Epub ahead of print).

Dumeaux V, Fjukstad B, Fjosne HE, Frantzen JO, Holmen MM, Rodegerdts E, Schlichting E, Bongo LA, Lund E, Hallett M. Interactions between the tumor and the blood systemic response of breast cancer patients. *PloS Computational Biology* 2017 2017;13(9): e1005680.

Fjukstad B, **Dumeaux V**, Olsen KS, Lund E, Hallett M, and Bongo LA (2017). Building Applications for Interactive Data Exploration in Systems Biology. In *Proceedings of the 8th ACM International Conference on Bioinformatics, Computational Biology, and Health Informatics (Boston, Massachusetts, USA: ACM)*, pp. 556-561.

Paquet ER, Lesurf R, Tofigh A, **Dumeaux V**, Hallett M. Detecting pathway activation in breast cancer in an absolute, single patient manner. *Breast Cancer Research* 2017 (Epub ahead of print)

Dumeaux V, Ursini-Siegel J, Flatberg A, Fjosnes HE, Frantzen JO, Holmen MM, Rodegerdts E, Schlichting E, Lund E. Gene expression changes in circulating blood cells informs on the host's response to the presence of breast cancer. *International Journal of Cancer* 2015;1:656-67.

Tofigh A*, Suderman M*, Paquet E, Livingstone J, Bertos N, Saleh S, Zhao H, Souleimanova M, Cory S, Lesurf R, Shahalizadeh S, Garcia Lopez N, Riazalhosseim Y, Omeroglu A, Ursini-Siegel J, Park M, **Dumeaux V**, Hallett M. The prognostic ease and difficulty of invasive breast carcinoma. *Cell Reports* 2014;9:129-41.

Gavrilyuk O, Braaten T, Weiderpass E, Skeie G, **Dumeaux V**, Lund E. High coffee consumption and different brewing methods in relation to postmenopausal endometrial cancer risk in the Norwegian Women and Cancer Study. *BMC Women's Health* 2014;14-48.

Ritte R, Tikk K, Lukanova A, Tjønneland A, Olsen A, Overvad K, Dossus L, Fournier A, Clavel-Chapelon F, Grote V, Boeing H, Aleksandrova K, Trichopoulou A, Lagiou P, Trichopoulos D, Palli D, Berrino F, Mattiello A, Tumino R, Sacerdote C, Quirós JR, Buckland G, Molina-Monte E, Chirlaque MD, Ardanaz E, Amiano P, Bueno-de-Mesquita HB, van Gils CH, Peeters PHM, Wareham N, Khaw KT, Key TJ, Travis RC, Weiderpass E, **Dumeaux V**, Lund E, Sund M, Andersson A, Romieu I, Rinaldi S, Vineis P, Merritt MA, Riboli E and Kaaks R. Reproductive factors and risk of hormone receptor positive and negative breast cancer: A cohort study. *BMC Cancer* 2013;13:584.

Landmark-Høyvik H, **Dumeaux V**, Nebdal D, Lund E, Tost J, Kamatani Y, Renault V, Børresen-Dale AL, Kristensen V, Edvardsen H. Genome-wide association study in breast cancer survivors reveals SNPs

associated with gene expression of genes belonging to MHC class I and II. *Genomics* 2013;102:278-87.

González CA, Megraud F, Buissonniere A, Lujan Barroso L, Agudo A, Duell EJ, Boutron-Ruault MC, Clavel-Chapelon F, Palli D, Krogh V, Mattiello A, Tumino R, Sacerdote C, Quirós JR, Sanchez-Cantalejo E, Navarro C, Barricarte A, Dorronsoro M, Khaw KT, Wareham N, Allen NE, Tsilidis KK, Bas Bueno-de-Mesquita H, Jeurnink SM, Numans ME, Peeters PH, Lagiou P, Valanou E, Trichopoulou A, Kaaks R, Lukanova-McGregor A, Bergman MM, Boeing H, Manjer J, Lindkvist B, Stenling R, Hallmans G, Mortensen LM, Overvad K, Olsen A, Tjønneland A, Bakken K, Dumeaux V, Lund E, Jenab M, Romieu I, Michaud D, Mouw T, Carneiro F, Fenge C, Riboli E. Helicobacter pylori infection assessed by ELISA and by immunoblot and noncardia gastric cancer risk in a prospective study: the Eurgast-EPIC project. *Ann Oncol* 2012;23:1320-4.

Rylander C, **Dumeaux V**, Olsen KS, Waaseth M, Sandanger TM, Lund E. Using blood gene signatures for assessing effects of exposure to perfluoroalkyl acids (PFAAs) in humans: the NOWAC postgenome study. *Int J Mol Epidemiol Genet* 2011;2:207-16.

Fortier I, Doiron D, Little J, Ferretti V, L'Heureux F, Stolk RP, Knoppers BM, Hudson TJ, Burton PR; **International Harmonization Initiative**. Is rigorous retrospective harmonization possible? Application of the DataSHaPER approach across 53 large studies. *Int J Epidemiol* 2011;40:1314-28.

Waaseth M, Olsen KS, Rylander C, Lund E, **Dumeaux V**. Sex hormones and gene expression signatures in peripheral blood from postmenopausal women – the NOWAC postgenome study. *BMC Medical Genomics* 2011;4:29.

Landmark-Høyvik H, **Dumeaux V**, Reinertsen KV, Edvardsen H, Fosså SD, Børresen-Dale AL. Blood gene expression profiling of breast cancer survivors experiencing fibrosis. *Int J Radiat Oncol Biol Phys* 2011;79:875-83.

Dumeaux V, Olsen SK, Paulssen RH, Børresen-Dale AL, Lund E. Deciphering blood gene expression variation – The postgenome NOWAC study. *PLoS Genetics* 2010;6:e1000873.

Lund E and **Dumeaux V**. Towards a more functional concept of causality in cancer research. *Int J Mol Epidemiol Genet* 2010;15:124-33.

Gu F, Schumacher FR, Canzian F, Allen NE, Albanes D, Berg CD, Berndt SI, Boeing H, Bueno-de-Mesquita HB, Buring JE, Chabbert-Buffet N, Chanock SJ, Clavel-Chapelon F, **Dumeaux V**, J Michael Gaziano JM, Giovannucci E, Haiman CA, Hankinson SE, Hayes RB, Henderson BE, Hunter DJ, Hoover RN, Johansson M, Key TJ, Khaw KT, Kolonel LN, Lagiou P, Lee IM, Lemarchand L, Lund E, Ma J, Onland-Moret NC, Overvad K, Rodriguez L, Sacerdote C, Sanchez MJ, Stampfer MJ, Stattin PE, Stram DO, Thomas G, Thun MJ, Tjønneland AM, Trichopoulos D, Tumino R, Virtamo J, Weinstein SJ, Willett WC, Yeager M, Zhang SM, Kaaks R, Riboli E, Ziegler RG, Kraft PL. Eighteen Insulin-like Growth Factor (IGF) pathway genes, circulating levels of IGF-1 and its binding protein (IGFBP-3), and risk of prostate and breast cancer. *CEBP* 2010;19:2877-87.

Landmark-Høyvik H, Reinertsen KV, Loge JH, Kristensen VN, **Dumeaux V**, Fosså SD, Børresen-Dale AL, Edvardsen H. The Genetics and Epigenetics of Fatigue. *PMR* 2010;2:456-65.

Bakken K, Fournier A, Lund E, Waaseth M, **Dumeaux V**, Clavel-Chapelon F, Fabre A, Hémon B, Rinaldi S, Chajes V, Slimani N, Allen NE, Reeves GK, Bingham S, Khaw KT, Olsen A, Tjønneland A, Rodriguez L, Sánchez MJ, Etzezarreta PA, Ardanaz E, Tormo MJ, Navarro C, Peeters PH, van Gils CH, Steffen A, Schulz M, Chang-Claude J, Kaaks R, Tumino R, Gallo V, Norat T, Riboli E, Panico S, Masala G, Berrino F. Menopausal Hormone Therapy and breast cancer risk: Impact of different hormones, regimens, routes of administration and duration of use. The European Prospective Investigation into Cancer and nutrition (EPIC). *Int J Cancer* 2010;128:144-56.

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Lønneborg A, Aarøe J, **Dumeaux V**, Børresen-Dale AL. Found in translation: Gene Expression and other Novel Blood Biomarkers for the Early Detection of Breast Cancer. *Expert Review of Anticancer Therapy* 2009;9:1115-23.

Landmark-Høyvik H, Valborg RK, Loge JH, Fosså DS, Børresen-Dale AL, **Dumeaux V**. Gene expression analysis of cancer-related fatigue in breast cancer survivors. *Pharmacogenomics* 2009;9:333-40.

Huttenhower C, Haley EM, Hibbs MA, **Dumeaux V**, Coller HA, Troyanskaya OG. A functional map of the human genome. *Genome Research* 2009;19:1093-106.

Barutcuoglu Z, Airoidi E, **Dumeaux V**, Schapire RE, Troyanskaya OG. Heterogeneous hidden conditional random fields for aneuploidy-based cancer prediction. *Bioinformatics* 2009;25:1307-13.

Lund E, **Dumeaux V**. Systems epidemiology. *CEBP* 2008;17:2954-7.

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Dumeaux V, Lund E, Børresen-Dale A.L. Comparison of globin RNA processing methods for genome-wide transcriptome analysis from whole-blood. *Biomarkers in Medicine* 2008;2:11-21.

Waaseth M, Bakken K, **Dumeaux V**, Standahl Olsen K, Rylander C, Figenschau Y, Lund E. Hormone replacement therapy and plasma levels of sex hormones in The Norwegian Women and Cancer Postgenome Cohort. *BMC Women's Health* 2008;8:1.

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Lund E, Bakken K, **Dumeaux V**, Andersen V, Kumle M. Hormone replacement therapy and breast cancer in former users of oral contraceptives-The Norwegian Women and Cancer study. *Int J Cancer*. 2007;121:645-48.

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Dumeaux V, Fournier A, Lund E, Clavel-Chapelon F. Previous oral contraceptive use and breast cancer risk according to hormone replacement therapy use among postmenopausal women. *Cancer Causes and Control* 2005;16:537-44.

Dumeaux V, Lund E, Hjartåker A. Use of oral contraceptives, alcohol, and risk for invasive breast cancer. *CEBP* 2004;13:1302-7.

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