

## Nolwenn Le Meur

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Avenue du Professeur Léon Bernard  
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### Position

EHESP Rennes, FR  
Deputy director January 2022 – present  
*Méthodes quantitatives en Santé publique department*

EHESP Rennes, FR  
Associate professor in Biostatistics November 2010 – present  
*Teaching Biostatistics and epidemiology for Master degree and civil servant*

UMR CNRS 6051 ARENES - INSERM Rennes, FR  
U1309  
Researcher January 2022 – present  
*Health services research team*

EA 7449 REPERES (EHESP-Univ Rennes I) Rennes, FR  
Researcher January 2017 – 2021  
*Pharmacoepidemiology and Health services research*  
*Deciphering patients' care trajectory using graph theory and data mining*

EA 7348 MOS (EHESP) Rennes, FR  
Researcher 2014 – 2016  
*Management des Organisations de Santé*  
*Deciphering patients' care trajectory using graph theory and data mining*

INSERM U936, (Univ Rennes I) Rennes, FR  
Researcher 2011 – 2014  
*Application of graph theory and data mining method to hospital discharge data*

INSERM-IRISA-Biogenouest Rennes, FR  
Post-Doctoral Research Associate March 2008 – October 2010  
*Coordinator of the Biogenouest Integrative Genomics Project.*  
*Dynamic modeling of TGF-beta signaling pathways in the control of cell proliferation.*  
Dr N. Théret, IRSET EA 4427 SeRAIC.

Fred Hutchinson Cancer Center Research Seattle, USA  
Post-Doctoral Research Associate Jul. 2005–Feb. 2008  
*The role of multiprotein complexes in determining phenotype in Yeast.*  
*Quality assessment of flow cytometry data.*  
Dr R. Gentleman, Computational Biology Group, Public Health Department.

## Education

- 2001-2005 Ph.D. in Bioinformatics  
INSERM U533, Supervisor Jean Léger, University of Nantes, France.
- 2000-2001 Master in Genomics and Bioinformatics, University of Rennes I, France.
- 1997-2000 Engineering School of Microbiology and Food Safety, Brest, France.
- 1996-1997 Biology Diploma, University of Brest, France.

## Main publications

Jan S, Gouëffic Y, Grimaud O, **Le Meur N**. Hospitalization and Death in the First 30 days After Outpatient Lower Extremity Arterial Stenting. *Cardiovasc Intervent Radiol*. Published online June 22, 2022. doi:10.1007/s00270-022-03193-0

**Le Meur N**, Padilla C, Ghoroubi N, Lamirault G, Chatellier G, Gouëffic Y. *Geographical disparities of endovascular revascularisations in ambulatory setting in France from 2015 to 2019*. *European Journal of Vascular and Endovascular Surgery*. Published online March 2022:S1078588422001927. doi:10.1016/j.ejvs.2022.03.015

Hamid A, Lamirault G, Gouëffic Y, **Le Meur N**. *Duration of sick leave after same-day discharge for lower extremity arterial disease and varicose vein interventions in active population of French patients, 2013-2016: observational study*. *BMJ Open*. 2020 Jun 28;10(6):e034713. doi: 10.1136/bmjopen-2019-034713. PMID: 32595150; PMCID: PMC7322330.

Rivault Y, Dameron O, **Le Meur N**. queryMed: Semantic Web functions for linking pharmacological and medical knowledge to data. Hancock J, ed. *Bioinformatics*. 2019;35(17):3203-3205. doi:10.1093/bioinformatics/btz034

**Le Meur N.**, Vigneau C, Lefort M, et al. Categorical state sequence analysis and regression tree to identify determinants of care trajectory in chronic disease: Example of end-stage renal disease. *Stat Methods Med Res*. 2019;28(6):1731-1740. doi:10.1177/0962280218774811

Rivault, Y., **Le Meur N.**, and Dameron, O. A Similarity Measure Based on Care Trajectories as Sequences of Sets. In *Artificial Intelligence in Medicine, Lecture Notes in Computer Science*, pages 278-282. Springer, Cham, June 2017.

## Grants, Scholarships, and Honors

- 2023-2027 SAFEPAW: Déterminants sociétaux pour une e-santé à l'appui de parcours de soins du patient, PEPR Santé numérique (Co-direction de thèse envisagée - N Le Meur & C. Milcent (PI)- PSE)
- 2022-2024 APPARU: Analyse du parcours des patients atteints d'accident vasculaire cérébral dans les territoires ruraux, Mutuelle Sociale Agricole (18 months - 88K€ - PI: N Le Meur & O. Grimaud)  
L. Menant, 12 months research engineer
- 2022-2027 ABALONE: Abambulatory alone, PREPS (5 years - PI: Pr. Y. Gouëffic)  
T. Tadros 3 months Internship
- 2020 DRIAS: IA et données de santé : regards croisés sur les droits, devoirs et responsabilités des personnes publiques (PI: T. Guyet)
- 2015-2021 TRACKEDAYS: Trajectory knowledge endovascular day surgery part of PEPS : Plateforme des épidémiologie et produits de santé, ANSM (48 months, PI: Pr. E. Oger)  
Y. Rivault PhD student, co-supervision O. Dameron (PEPS ANSM fund)  
N. Ghoroubi 4 months internship (PEPS ANSM fund)  
S. Jan 6 months medical doctor thesis
- 2019-2024 EDS: Evaluation Paiement à l'Episode de Soins (5 years, PI: Pr. N. Sirven)  
H. Maury 4 months internship
- 2013-2014 Filière MCO-SSR : quel maillage territorial des établissements privés non lucratifs ? Research grant of Fédération des établissements hospitaliers et d'aide à la personne (FEHAP) (12 months, 3K€).  
L. Ferrat, 6 months internship
- 2015-2018 AGIR: Comparaison des déterminants de l'Accès à la Greffe rénale et de la survie des Insuffisants Rénaux chroniques terminaux d'Ile-de-France et de Bretagne, USPC (18 mois - 70K€ - PI: S. Bayat)
- 2008-2010 La ligue contre le cancer. Post-doctoral grant for young scientists.
- 2009 Travel grant for oral presentation at the 19th APASL congress (Asian Pacific Association for the Study of the Liver), Hong Kong, Feb 2009.
- 2002 Scholarship from the University of Bretagne Occidentale for thesis in Genomics and Bioinformatics, Rennes, France.
- 2000-2001 Scholarship from the University of Bretagne Occidentale for a Master in Bioinformatics, Rennes, France.

## Unsuccessful response to call for proposals

- 2021 RHU - TRANSFORM Transform stroke care pathway (PI: S. Timsit)
- 2020 ANR Générique - REUNITED Rare diseases Epidemiology Using routinely collected Health Data (PI: O. Steichen)
- 2018 ANR Générique - PISE Pharmaco-epidemiology with Interactivity, Scalability and Expressivity (PI: T. Guyet)
- 2018 IRESP - ICONNE Inpatient Compared to Outpatient care providers' Networks in Endovascular diseases (PI: **N. Le Meur**)
- 2017 IRESP - TeMIIS Territoires, Management, Indicateurs, Inégalité de Santé (PI: JM. Januel )

- 2016 ANR Générique - TRACK'N'DAYS Trajectory of Care for Knowledge on Never events in DAY Surgery (PI: **N.Le Meur**)
- 2016 IRESP - Impact de la mise en place de la chirurgie endovasculaire en ambulatoire sur la qualité et la sécurité des soins dans la pathologie artérielle périphérique : analyse des parcours de soins à partir des bases médico-administratives (PI: **N.Le Meur** )
- 2015 ANR JCJC - EDEN Exploration enactive des données (PI: T. Guyet)
- 2014 RHU Individualized Cancer Care and Research in Rennes (PI: A.Dupuy)

### **PhD Student and medical doctor thesis supervisor**

- 2019 Simon Jan, thèse de médecine, intern in public health, University of Rennes I  
Étude des complications après une angioplastie avec pose de stent des membres inférieurs : Analyse comparative (prise en charge ambulatoire vs conventionnelle) à partir des données 2013-2016 du SNDS
- 2015-2019 Yann Rivault, EHESP-IRISA-URI (with O. Dameron)  
Analyse de trajectoires de soins à partir de bases de données médico-administratives : apport d'un enrichissement par des connaissances biomédicales issues du Web des données
- 2013-2018 Fei Gao, EHESP (with S. Deguen)  
Développement d'outils statistiques et informatiques permettant l'investigation des inégalités socio-territoriales de santé à différentes échelles géographiques.

## Teaching Experience

### Course coordination

- 2021-2022 Biostatistics track, International Master of Public Health Year II - MPH2 (90h)
- 2019-2022 Biostatistics, International Master of Public Health Year I - MPH1 (90h)
- 2018-2022 Introduction to R (lifelong training course) (30h)

### Teaching

- 2019-2022 Biostatistics, International Master of Public Health (MPH) - Year I, EHESP (90h)
- 2012-2022 Introduction to R, International Master of Public Health - Year II, EHESP (30h)
- 2022 Introduction to data sciences, Doctoral network training course, EHESP (12h)
- 2018-2022 Introduction to R (lifelong training course), EHESP (30h)
- 2017-2018 How to use data from the French National Health Data System? (lifelong training course), EHESP (12h)
- 2012-2022 Cours international d'épidémiologie appliquée (IDEA), EHESP (9h)
- 2012-2016 Biostatistics, Master I Public Health, EHESP-University of Rennes I (60h)
- 2014-2018 Introduction to biostatistics to civil servant (ingénieur d'étude sanitaire, médecin de l'Education Nationale)
- 2011-2013 Biostatistics, Fondamentaux établissements, EHESP
- 2010-2014 Biostatistics, Fondamentaux états, EHESP
- 2011 Biostatistics Pratical courses, International Master of Public Health, EHESP
- 2010 Biostatistics, Master I Gouvernance, EHESP-University of Rennes I
- 2010-2011 R and Bioconductor, 3 day course, University of Rennes I
- 2009 Flow cytometry data analysis, practical course, Immunology Center Marseille Luminy
- 2008 Introductory courses: R and Bioconductor, University de Rennes I
- 2006-2008 Introductory courses: R and Bioconductor, lectures and praticals, Fred Hutchinson Cancer Center Research, Seattle
- 2004 Introductory course in R, practical course, Rennes
- 2002-2003 High-throughput data management and analysis, lecture, Rennes

### E-learning

- 2022 E-book for MPH1 R and Stata computer labs  
(<https://nolwenn.github.io/software-M1-biostat/>)
- 2021 E-book for MPH1 biostatistics  
(<https://nolwenn.github.io/ebook-M1-biostat/>)
- 2018 MOOC Notre système de santé en 2020: Les objets connectés
- 2012 Screencasts for the Analysis Tool Pack for Excel(r)

## Academic supervisor

- 2023 Liana Barrow Del Bono, M2 of Public Health, EHESP Paris
- 2022 Liana Barrow Del Bono, M1 of Public Health, EHESP Paris
- 2022 Teddy Tadros, M1 of Public Health, EHESP Paris
- 2022 Hugo Maury, Statistique et Informatique Décisionnelle, Lisieux
- 2021 Juthathip Khongpetch, M1 of Public Health, EHESP Paris
- 2020 Fareedah Oredola, M1 of Public Health, EHESP Paris
- 2019 Narges Ghoroubi, M1 of Public Health, EHESP Paris
- 2019 Samuel Tessier, M1 Statistics and Informatics, Nantes
- 2019 Yuanfei Anny Huang, M2 Public Health, EHESP Paris
- 2018 Asma Hamid, M1 Public Health, EHESP Paris
- 2017 Deo Nsubuga, M2 Public Health, EHESP Paris
- 2016 Grace Sung, M2 Public Health, EHESP Paris
- 2014 Shu Wang, Mailman School, Columbia University, New York
- 2014 Xavier Hamon, IUT LIP, Statistics et Data mining, Vannes
- 2014 Gaspard Massiot, Engineer in statistics, ENSAI
- 2013 Alice Duquenne, IUT STID, Statistics et Data mining, Vannes
- 2011 Bastien Riera, Engineer in statistics, ENSAI
- 2012 Jeremy Rio, M1 Biological systems modeling, University of Rennes I
- 2012 Emile Richard, M2 Biological systems modeling, University of Rennes I
- 2009 Geoffroy Andrieux, M2 Biological systems modeling, University of Rennes I
- 2009 Ismail Bourais, M1 Biological systems modeling, University of Rennes I
- 2004 Jonathan Brosseau, IUP Technologies Avancés des Sciences du Vivant, Louis Pasteur University, Strasbourg
- 2004 Jonathan Sokolowki, IUT, Statistics et Data mining, Vannes
- 2003 Sandrine Mainard, IUT, Statistics et Data mining, Vannes

## Responsibilities and Advisory board

- 2021-present Scientific advisor, Plateforme universitaire des données, MSHB
- 2022-2025 Deputy director METIS
- 2016-2024 Elected member of the EHESP scientific advisory board
- 2017-2021 Member of the EA REPERES board
- 2010-2011 Coordinator of the Biogenouest Integrative Genomics Project.
- 2005-2008 Member of the International Society for Advancement of Cytometry (ISAC)  
Member of the Flow Informatics and Computational Cytometry Society (FICCS)

## Participation to scientific committees for seminars and conferences

- 2022 Artificial intelligence and health: interdisciplinary approaches, Nantes, 29 June- 1 July  
Member of the scientific committee
- 2021 Droit, IA et Santé: Regards croisés sur les responsabilités éthiques, juridiques et techniques dans l'usage des IA en Santé  
Member of the scientific committee, 20-21 June
- 2019 French National Health Data system days, Rennes, 24-25 July
- 2017 French National Health Data system days, Rennes, June
- 2017-2021 EA REPERES website and twitter account
- 2017-2020 Weekly scientific seminars of the EA REPERES
- 2010 Scientific meeting on modeling approaches in systems biology (IRISA Symbiose, Rennes)
- 2005-2007 Weekly scientific seminars of the computational biology group, Fred Hutchinsons Cancer Research Center, Seattle.

## Expertise and collaborations

Reviewer for

- Healthcare
- International Journal of Environmental Research and Public Health
- International Journal of Cardiology
- Journal of Muscular Disorders and Treatment
- BMJ Series: BMJ public health, BMJ Pregnancy and Child Birth, BMJ open
- BMC series: BMC genomics, BMC Infectious Diseases
- Bioinformatics, BMC bioinformatics, Plos Computational Biology
- Statistical Methods in Medical research
- Cytometry A
- Young Researchers ANR, Generic ANR, Fond National Suisse

Recent collaborations with

- Carine Milcent, DR CNRS Paris School of Economics
- Dr. Laurence Destrieux, Vascular and endovascular surgeon, Clinique Générale d'Annecy
- Pr. Yann Goueffic, Vascular and endovascular surgeon, Groupe Hospitalier Paris Saint Joseph
- Thomas Guyet, Inria Center of Lyon
- Frederick Cosnard, Santé Clair [expertise]
- Olivier Dameron, IRISA Université Rennes I
- Guillaume Lamirault, Clinical investigation center CHU Nantes, Institut du thorax INSERM UMR 915, Nantes
- Mikael Roussel, Hematology Laboratory, INSERM U1236 University Hospital Pontchaillou, Rennes

## Publications

### 2022

Demetriou CA, Achilleos S, Quattrocchi A, Gabel J, Kolokotroni O, Constantinou C, Nicolaou N, Rodriguez-Llanes JM, Huang Q, Verstiuk O, Pidmurniak N, Tao JW, Burström B, Klepac P, Erzen I, Chong M, Barron M, Hagen TP, Kalmatayeva Z, Davletov K, Zucker I, Kaufman Z, Kereselidze M, Kandelaki L, **Le Meur N**, Goldsmith L, Critchley JA, Pinilla MA, Jaramillo GI, Teixeira D, Gómez LF, Lobato J, Araújo C, Cuthbertson J, Bennett CM, Polemitis A, Charalambous A, Demetriou CA; C-MOR consortium. Impact of the COVID-19 pandemic on total, sex- and age-specific all-cause mortality in 20 countries worldwide during 2020: results from the C-MOR Project. *International Journal of Epidemiology*. [In print.]

Jan S, Gouëffic Y, Grimaud O, **Le Meur N**. Hospitalization and Death in the First 30 days After Outpatient Lower Extremity Arterial Stenting. *Cardiovasc Intervent Radiol*. Published online June 22, 2022. doi:10.1007/s00270-022-03193-0

**Le Meur N**, Padilla C, Ghoroubi N, Lamirault G, Chatellier G, Gouëffic Y. *Geographical disparities of endovascular revascularisations in ambulatory setting in France from 2015 to 2019*. *European Journal of Vascular and Endovascular Surgery*. Published online March 2022:S1078588422001927. doi:10.1016/j.ejvs.2022.03.015

Ugarte MP, Achilleos S, Quattrocchi A, Gabel J, Kolokotroni O, Constantinou C, Nicolaou N, Rodriguez-Llanes JM, Huang Q, Verstiuk O, Pidmurniak N, Tao JW, Burström B, Klepac P, Erzen I, Chong M, Barron M, Hagen TP, Kalmatayeva Z, Davletov K, Zucker I, Kaufman Z, Kereselidze M, Kandelaki L, **Le Meur N**, Goldsmith L, Critchley JA, Pinilla MA, Jaramillo GI, Teixeira D, Gómez LF, Lobato J, Araújo C, Cuthbertson J, Bennett CM, Polemitis A, Charalambous A, Demetriou CA; C-MOR consortium. Premature mortality attributable to COVID-19: potential years of life lost in 17 countries around the world, January-August 2020. *BMC Public Health*. 2022 Jan 9;22(1):54. doi: 10.1186/s12889-021-12377-1. PMID: 35000578; PMCID: PMC8743065.

### 2021

Achilleos S, Quattrocchi A, Gabel J, Heraclides A, Kolokotroni O, Constantinou C, Pagola Ugarte M, Nicolaou N, Rodriguez-Llanes JM, Bennett CM, Bogatyreva E, Schernhammer E, Zimmermann C, Costa AJL, Lobato JCP, Fernandes NM, Semedo-Aguiar AP, Jaramillo Ramirez GI, Martin Garzon OD, Mortensen LH, Critchley JA, Goldsmith LP, Denissov G, Rüütel K, **Le Meur N**, Kandelaki L, Tsiklauri S, O'Donnell J, Oza A, Kaufman Z, Zucker I, Ambrosio G, Stracci F, Hagen TP, Erzen I, Klepac P, Arcos González P, Fernández Camporro Á, Burström B, Pidmurniak N, Verstiuk O, Huang Q, Mehta NK, Polemitis A, Charalambous A, Demetriou CA. Excess all-cause mortality and COVID-19-related mortality: a temporal analysis in 22 countries, from January until August 2020. *Int J Epidemiol*. 2022 Feb 18;51(1):35-53. PMID: 34282450; PMCID: PMC8344815. Published online July 20, 2021:dyab123. doi:10.1093/ije/dyab123



## 2020

Hamid A, Lamirault G, Goueffic Y, **Le Meur N**. *Duration of sick leave after same-day discharge for lower extremity arterial disease and varicose vein interventions in active population of French patients, 2013-2016: observational study*. *BMJ Open*. 2020 Jun 28;10(6):e034713. doi: 10.1136/bmjopen-2019-034713. PMID: 32595150; PMCID: PMC7322330.

## 2019

Rivault Y, Dameron O, **Le Meur N**. *queryMed: Semantic Web functions for linking pharmacological and medical knowledge to data*. *Bioinformatics*. 2019 Jan 18. doi:10.1093/bioinformatics/btz034. PMID: 30657867

Le Meur N, Vigneau C, Lefort M, Lebbah S, Jais JP, Daugas E, Bayat S. *Categorical state sequence analysis and regression tree to identify determinants of care trajectory in chronic disease: Example of end-stage renal disease*. *Stat Methods Med Res*. 2019 Jun;28(6):1731-1740. doi: 10.1177/0962280218774811. Epub 2018 May 9. PMID: 29742976.

## 2017

Rivault, Y., **Le Meur N.**, and Dameron, O. *A Similarity Measure Based on Care Trajectories as Sequences of Sets*. In *Artificial Intelligence in Medicine, Lecture Notes in Computer Science*, pages 278-282. Springer, Cham, June 2017. ISBN 978-3-319-59757-7 978-3-319-59758-4.

Fonteneau L, **Le Meur N**, Cohen-Akenine A, Pessel C, Brouard C, Delon F, Desjeux G, Durand J, Kirchgesner J, Lapidus N, Lemaitre M, Tala S, Thiébaud A, Watier L, Rudant J, Guillon-Grammatico L. *[The use of administrative health databases in infectious disease epidemiology and public health]*. *Rev Epidemiol Sante Publique*. 2017 Jun 14. pii: S0398-7620(17)30402-9. doi: 10.1016/j.respe.2017.03.131. French. PMID: 28624133

**Le Meur N**, Ferrat, L, Gao, F, Quidu, F and Louazel, M. (2017). *Maillage territorial des établissements de sante : apport des modeles issus de la theorie des graphes*. *Journal de gestion et d'economie medicales*, vol. 35(4), 197-208. doi:10.3917/jgem.174.0197.

Gao F, Kihal W, **Le Meur N**, Souris M, Deguen S. *Does the edge effect impact on the measure of spatial accessibility to healthcare providers?* *Int J Health Geogr*. 2017 Dec 11;16(1):46. doi: 10.1186/s12942-017-0119-3. PMID: 29228961; PMCID: PMC5725922.

## 2016

Lefort M, Vigneau C, Laurent A, Lebbah S, **Le Meur N**, Jais JP, Daugas E, Bayat S. *Facilitating access to the renal transplant waiting list does not increase the number of transplantations: comparative study of two French regions*. *Clin Kidney J*. 2016 Dec;9(6):849-857.

Epub 2016 Sep 9. PMID: 27994866; PubMed Central PMCID: PMC5162409.

Gao F, Kihal W, **Le Meur N**, Souris M, Deguen S. *Assessment of the spatial accessibility to health professionals at French census block level*. Int J Equity Health. 2016 Aug 2;15(1):125. doi: 10.1186/s12939-016-0411-z. [IF 2.378]

## 2015

**Le Meur N**, Grammatico-Guillon L, Wang S, Astagneau P. *Health insurance database for post-discharge surveillance of surgical site infection following arthroplasty*. J Hosp Infect. 2015 Oct 26. [IF 2.54]

Lalloué, B., Deguen, S. , Monnez, J. , Padilla, C. , Kihal, W. , Zmirou-Navier, D. and **Le Meur N**. (2015) *SesIndexCreator: An R Package for Socioeconomic Indices Computation and Visualization*. Open Journal of Statistics.2015 June 8; 5, 291-302. doi: 10.4236/ojs.2015.54031.

**Le Meur N**, Gao F, Bayat S. *Mining care trajectories using health administrative information systems: the use of state sequence analysis to assess disparities in prenatal care consumption*. BMC Health Serv Res. 2015 May 15;15(1):200.

## 2014

P Nizard, F Ezan, D Bonnier, **N. Le Meur**, S Langouet, G Baffet, Y Arlot Bonnemains, N Theret. *Integrative analysis of high-throughput RNAi screen data identifies the FER and CRKL tyrosine kinases as new regulators of the mitogenic EGFR pathway in transformed cells*. BMC Genomics Accepted on Dec 2014

## 2013

O Dameron, C Bettembourg, **N. Le Meur**. *Measuring the evolution of ontology complexity: the gene ontology case study*. PLoS One. 2013 Oct 11;8(10):e75993.

B Lalloué, JM Monnez, C Padilla, W Kihal, **N. Le Meur**, D Zmirou-Navier, S Deguen. *A statistical procedure to create a neighborhood socioeconomic index for health inequalities analysis*. Int J Equity Health. 2013 Mar 28;12:21.

**N. Le Meur**. *Computational methods for evaluation of cell-based data assessment-Bioconductor*. Curr Opin Biotechnol. 2013 Feb;24(1):105-11.

## 2012

Roussel M, Gros A, Gacouin A, **Le Meur N**. , Le Tulzo Y, Fest T. *Toward new insights on the white blood cell differential by flow cytometry: A proof of concept study on the sepsis model*. Cytometry B Clin Cytom. 2012 Apr 16.

**N. Le Meur** and R. Gentleman. *Analyzing biological data using R: methods for graphs and networks*. Methods Mol Biol. 2012;804:343-73.

## 2011

**N. Le Meur** and R. Gentleman. *Assessing the role of multiprotein complexes in determining phenotype*. 58th ISI Congress, Dublin 2011 Aug.

J. Gruel, M. LeBorgne, **N. Le Meur**, N. Th  ret. *Simple Shared Motifs (SSM) in conserved region of promoters: a new approach to identify co-regulation patterns*. BMC Bioinformatics. 2011 Sep 12;12:365.

D. Gilot, **N. Le Meur**, F. Giudicelli, M. Le V  e, D. Lagadic-Gossmann, N. Th  ret, O. Fardel. *RNAi-Based Screening Identifies Kinases Interfering with Dioxin-Mediated Up-Regulation of CYP1A1 Activity*. PLoS One. 2011 Mar 29;6(3):e18261.

## 2010

**N. Le Meur**, M. Lawrence, M. Tewari, R. Gentleman. *R and Bioconductor in bioinformatics: toward systems biology*. In: *Statistical Bioinformatics: A Guide for Life and Biomedical Science Researchers*. John Wiley & Sons.

Risk MC, Knudsen BS, Coleman I, Dumpit RF, Kristal AR, **Le Meur N**, Gentleman RC, True LD, Nelson PS, Lin DW. *Differential gene expression in benign prostate epithelium of men with and without prostate cancer: evidence for a prostate cancer field effect*. Clin Cancer Res. 2010 Nov 15;16(22):5414-23.

G. Lamirault, **N. Le Meur N et al**. *Molecular risk stratification in advanced heart failure patients*. J Cell Mol Med. 2010 Jun;14(6B):1443-52.

## 2009

**N. Le Meur**, M Le Borgne, J Gruel and N Th  ret. *Multi-clock discrete modelling of biological systems*. ECCS, Warwick 2009.

J. Gruel, M. LeBorgne, **N. LeMeur**, N. Th  ret. In silico investigation of ADAM12 effect on TGF-beta receptors trafficking. BMC Res Notes. 2009 Sep 24;2(1):193.

A. Bankhead III, I. Sach, C. Ni, **N. LeMeur**, M. Kruger, M. Ferrer, R. Gentleman, Carol R. Knowledge based identification of essential signaling from genome-scale siRNA experiments. BMC Systems Biology 2009, 3:80

**N. LeMeur\***, F. Hahne\* , R.R. Brinkman, B. Ellis, P. Haaland, D. Sarkar, J. Spidlen, E. Strain and R. Gentleman. *FlowCore: a Bioconductor package for high throughput flow cytometry*. BMC Bioinformatics 2009, 10:106 (\* Equal contributors).

## 2008

**N. Le Meur** and R. Gentleman. *Modeling synthetic lethality*. Genome Biology 2008, 9:R135.

D. Sarkar, **N. Le Meur**, R. Gentleman. *FlowViz: Visualization tool for high throughput flow cytometry data*. Bioinformatics. 2008 Mar 15;24(6):878-9.

A. Le Bécheuc, P. Zindy, T. Sierocinski, D. Petritis, A. Bihou'ee, **N. Le Meur**, J. Léger, N. Théret. *M@IA: A modular open-source application for microarray workflow and integrative datamining*. In *Silico Biology*.2008 ;8(1):63-9.

## 2007

**N. Le Meur**, A. Rossini, M. Gasparetto, C. Smith, R.R. Brinkman, R. Gentleman. *Quality Assessment of Ungated Flow Cytometry data in High Throughput experiments*, *CytometryA*. 2007 Jun;71(6):393-403.

S. Cardin, E. Libby, P. Pelletier, S. Le Bouter, A. Shiroshita-Takeshita, **N. Le Meur**, J.J Léger, S. Demolombe, A. Ponton, L. Glass, S. Nattel. *Contrasting Gene Expression Profiles in Two Canine Models of Atrial Fibrillation*. *Circulation Research*. *Circ Res*. 2007 Feb 16;100(3):425-33.

## 2006

**N. Le Meur** and F. Hahne. *Analyzing Flow Cytometry Data with Bioconductor*, *Rnews*. 2006 Dec;6(5):27-32.

J. Spidlen, R.C Gentleman, P.D Haaland, M. Langille, **N. Le Meur**, M.F Ochs, C. Schmitt, C.A Smith, A.S Treister AS, R.R Brinkman. *Data standards for flow cytometry.*, *OMICS*. 2006 Summer;10(2):209-214.

J. Buitink, J.J Léger, I. Guisle, B. Ly Vu, S. Wuillème, G. Lamirault, A. Le Bars, **N. Le Meur**, A. Becker, H. Kuster. *Transcriptome profiling uncovers metabolic and regulatory processes occurring during the transition from desiccation sensitive to -tolerant stages in *Medicago truncatula* seeds*, *Plant J*. 2006 Sep;47(5):735-50.

Y. Blanchard , **N. Le Meur**, M. Le Cunff , P. Blanchard , J.J. Léger, A. Jestin. *Cellular Gene Expression Survey of PseudoRabies Virus (PRV) Infection of Human Embryonic Kidney Cells (HEK-293)*, *Veterinary Research*. 2006 Sep-Oct;37(5):705-723.

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