RESEARCH PORTFOLIO CENSTAT

1. RESEARCH AND CONSULTANCY PROJECTS OF CENSTAT 2011-2016

2. PUBLICATIONS BY CENSTAT 2011-2016

3. DEVELOPMENT-RELEVANT PUBLICATIONS CENSTAT
1. Research and Consultancy projects CenStat 2011-2016

1.1 Research Projects

<table>
<thead>
<tr>
<th>START DATE</th>
<th>END DATE</th>
<th>FINANCING PARTNER</th>
<th>PROMOTER</th>
<th>TITLE</th>
<th>BUDGET</th>
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<td>01/01/2007</td>
<td>31/03/2012</td>
<td>Belgian Science Policy Office (BELSPO)</td>
<td>VERAVERBEKE Noel</td>
<td>Statistical analysis of association and dependence in complex data</td>
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<td>Belgian Science Policy Office (BELSPO)</td>
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<td>Government agency for Innovation by Science and Technology (IWT)</td>
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<td>Simulation models of infectious disease transmission and control processes (SIMID), with applications to five major health policy issues in Flanders</td>
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<td>VAXINFECTIO to suppress and prevent zymotic diseases</td>
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<td>Mathematical and Statistical Models for HIV and Co-Infections</td>
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<td>Special Research Fund (BOF)</td>
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<td>Statistical analysis of isotope-labeled MALDI-TOF mass spectra</td>
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<td>AERTS Marc</td>
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<td>European Centre for Disease Prevention and Control (ECDC)</td>
<td>SHKEDY Ziv</td>
<td>Consortium Agreement concerning the ECD-project: &quot;VACCINE PREVENTABLE DISEASES MODELLING IN THE EUROPEAN UNION AND EEA/EFTA COUNTRIES: FORECASTING THE EFFECT OF</td>
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<td>Longitudinal methods for complex interactions in elderly populations.</td>
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<td>European Food Safety Authority (EFSA)</td>
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<td>Request for assistance in development of statistical analyses of methods for evaluation of data on antimicrobial resistance in zoonotic agent isolates from animals and food.</td>
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<td>AERTS Marc</td>
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<td>Cooperation between CenStat and Janssen Pharmaceutica in connection with the doctorate from Doreen Abainenamar.</td>
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<td>International Drug Developent Institute (IDDI)</td>
<td>BURZYKOWSKI Tomasz</td>
<td>Collaboration agreement with IDDI concerning the doctoral of Leandro Garcia Barrado with title &quot;Bayesian statistics and Bioinformatics for Biomarker validation using Biobanks in Alzheimer's Disease (B4AD)&quot;</td>
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<td>Flemish Institute for Technological Research (VITO)</td>
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<td>Coorporation agreement within the framework of the PhD: &quot;Novel informatics algorithms for the analysis of post-translational modifications in mass spectrometry data&quot;</td>
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<td>Parameter estimation and real-time prediction of Dengue outbreaks using model averaging</td>
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<td>Flemish Institute for Technological Research (VITO)</td>
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<td>Performing an incremental policy effect (planning phase) of the results of the 2nd Flemish human biomonitoring campaign carried out in the framework of the 2nd generation keynote Environment and Health</td>
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<td>Estimation of the prevalence of L. monocytogenes contaminated RTE foods as well as analysis of the qualitative and quantitative survey tests results and analysis of factors associated with the prevalence of L. monocytogenes contaminated RTE foods.</td>
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<td>Belgian Science Policy Office (BELSPO)</td>
<td>FAES Christel</td>
<td>StUdyS: Developing crucial Statistical methods for Understanding major complex Dynamic Systems in natural, biomedical and social sciences</td>
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<td>Europese Commissie (EC)</td>
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<td>AERTS Marc</td>
<td>Development of new semi-parametric mixture models for interval censored data: mathematical properties, performance for finite samples, comparison of different approaches, with applications in antimicrobial resistance</td>
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<p>| 19/06/2013   | 20/08/2014 | European Food Safety Authority (EFSA) | THIJS Herbert                | Statistical support for the assessment of GMO field trials                  | 44,160,00 |
| 01/07/2013   | 31/12/2015 | Janssen Pharmaceutica nv         | MOLENBERGHS Geert            | ExaScience Life Pharma                                                       | 161,000,00 |
| 30/07/2013   | 31/03/2015 | European Food Safety Authority (EFSA) | MOLENBERGHS Geert            | Data representativeness: issues and solutions                                 | 305,440,00 |
| 27/08/2013   | 19/12/2013 | European Food Safety Authority (EFSA) | AERTS Marc                  | Preparatory work in the analysis and reporting of data on multi-resistance in antimicrobial resistance isolate based data collected from reporting countries for the year 2012 | 40,040,00 |
| 01/09/2013   | 30/06/2016 | Special Research Fund (BOF)       | SHKEDY Ziv                   | Modeling CD4 count of HIV/AIDS patients' before and after the initiation of Antiretroviral therapy (ART) in Amhara Region, Northwest Ethiopia. | 61,700,00 |
| 26/09/2013   | 31/08/2016 | National Institute of Health (NIH) | FAES Christel                | Uncertainty in spatial health analysis due to missingness and aggregation effects | 119,086,24 |
| 01/11/2013   | 31/10/2016 | Europese Commissie (EC)           | MOLENBERGHS Geert            | IDEAL: Integrated DEsign and AnaLysis of small population group trials       | 240,000,00 |
| 01/01/2014   | 31/12/2015 | Special Research Fund (BOF)       | MOLENBERGHS Geert            | Statistical methodology for epidemiological and clinical research in childhood and maternal health in the context of mother to child transmission of HIV and other infectious diseases | 33,115,20 |
| 01/01/2014   | 31/12/2017 | Special Research Fund (BOF)       | HENS Niel                   | Modeling the infectious agent transmission with social mixing data            | 32,115,20 |
| 01/01/2014   | 31/12/2017 | Special Research Fund (BOF)       | VERHASSELT Anneleen          | Statistical inference for varying coefficient functions and qualitative constraints | 195,000,00 |
| 01/01/2014   | 31/12/2018 | Research Foundation - Flanders (FWO) | HENS Niel                  | Network Statistics for Sexually Transmitted Infections Epidemiology         | 62,500,00 |
| 01/01/2014   | 31/12/2015 | Stellenbosch University           | HENS Niel                   | Advanced development, testing and application of the Simpact Cyan            | 94,329,00 |</p>
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<td>Individual-base simulation tool to model preferential mixing among ART patients and heritability of HIV set point viral load.</td>
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<td>Development of new semi-parametric mixture models for interval censored data: mathematical properties, performance for finite samples, comparison of different approaches, with applications in antimicrobial resistance</td>
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<td>Development and application of statistical methodology for analysis of the phenomenon of multi-drug resistance in the EU: demonstration of analytical approaches using antimicrobial resistance isolate-based data.</td>
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<td>The analysis of RNA-Seq data by using generalized linear models with normal</td>
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Combining phylodynamics and agent-based HIV transmission modelling to advance epidemiological methodology and evidence-based public health policies for HIV prevention and treatment

Quantifying the impact of school holidays and week-ends on the spread of influenza-like-illness: a multi-scale approach

Enhancing observational study design of infectious disease surveys using mathematical modelling techniques.

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<td>Creation MPG- unity files</td>
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<td>Consultancy Agreement between Janssen Research and Development NV and Universiteit Hasselt</td>
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<td>AERTS Marc</td>
<td>Research project: &quot;association between C. difficile incidence and antimicrobial use in Belgian hospitals&quot; 6 days of work * 800 Euros/day</td>
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<td>AERTS Marc</td>
<td>Training Statistics 2015 Milan</td>
<td>2,480,00</td>
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2. Publications By Censtat 2011-2016

2016

Journal Contribution


Timmermans, Catherine; Doffagne, Erik; Venet, David; Desmet, Lieven; Legrand, Catherine; Burzykowski, Tomasz & Buyse, Marc (2016). *Statistical monitoring of data quality and consistency in the Stomach Cancer Adjuvant Multi-institutional Trial Group Trial*. In: GASTRIC CANCER, 19 (1), p. 24-30. [Review - cat: A1]


Thi Thu Hoang, Ha; Leuridan, Elke; Maertens, Kirsten; Dac Nguyen, Trung; Hens, Niel; Ha Vu, Ngoc; Cabore, Raissa Nadege; Thi Duong, Hong; Huygen, Kris; Van Damme, Pierre & Duc Dang, Anh (2016). *Pertussis vaccination during pregnancy in Vietnam: Results of a randomized controlled trial Pertussis vaccination during pregnancy*. In: VACCINE, 34 (1), p. 151-159. [Article - cat: A1]

2015

Journal Contribution


SANTERMANS, Eva; GOEYVAERTS, Nele; Melegaro, A.; Edmunds, W.J.; FAES, Christel; AERTS, Marc; Beutels, P. & HENS, Niel (2015). The social contact hypothesis under the assumption of endemic equilibrium: Elucidating the transmission potential of VZV in Europe.. In: Epidemics, 11, p. 14-23. [Article - cat: A1]


OGUNJIMI, Benson; Buntinx, Frank; Bartholomeeusen, Stephaan; Terpstra, Ida; De Haes, Inke; Willem, Lander; Elli, Steven; Bilcke, Joke; Van Damme, Pierre; Coenen, Samuel & Beutels, Philippe (2015). Herpes zoster is associated with herpes simplex and other


infections in under 60 year-olds.


LAMBERT, Marie-Laurence; Bruyndonckx, Robin; Goossens, Herman; Hens, Niel; Aerts, Marc; CATRY, Boudewijn; NEELY, Fiona; VOGELAERS, Dirk & HAMMAMI, Naima (2015). The Belgian policy of funding antimicrobial stewardship in hospitals and trends of selected quality indicators for antimicrobial use, 1999–2010: a longitudinal study.

NYSEN, Ruth; FAES, Christel; Ferrari, Pietro; Verger, Philippe & AERTS, Marc (2015). Model averaging quantiles from data censored by a limit of detection.
In: BIOMETRICAL JOURNAL. [Article - cat: A1]

Verbist, Bie; Klambauer, Günter; Vervoort, Liesbet; TALLOEN, Willem; SHKEDY, Ziv; Thas, Olivier; Bender, Andreas; Göhlmann, Hinrich W. H.; Hochreiter, Sepp & BIGIRUMURAME, Theophile (2015). Using transcriptomics to guide lead optimization in drug discovery projects: Lessons learned from the QSTAR project.


Van Larebeke, Nik; Sioen, Isabelle; Den Hond, Elly; Nelen, Vera; Van de Mieroop, Els; NAWROT, Tim; BRUCKERS, Liesbeth; Schoeters, Greet & Baeyens, Willy (2015). Internal exposure to organochlorine pollutants and cadmium and self-reported health status: A prospective study.

Hansen, Dominique; Jacobs, Nele; Thijs, Herbert; Dendale, Paul & Claes, Neree (2015). Validation of a single-stage fixed-rate step test for the prediction of maximal oxygen uptake in healthy adults.
In: Clinical Physiology and Functional Imaging. [Article - cat: A1]

Heremans, Elke; Nackaerts, Evelien; Vervoort, Griet; Vercruysse, Sarah; Broeder, Sanne; Strouwen, Carolien; Swinnen, Stephan P. & Nieuwboer, Alice (2015). Amplitude Manipulation Evokes Upper Limb Freezing during Handwriting in Patients with Parkinson’s Disease with Freezing of Gait.

Clijmans, Maïté; Lemiere, Jurgen; Fieuws, Steffen & Willems, Guy (2015). Impact of self-esteem and personality traits on the association between orthodontic treatment need and oral health-related quality of life in adults seeking orthodontic treatment.


In: PHYSIOLOGICAL RESEARCH, 64 (6), p. 907-923. [Article - cat: A1]

Van de Putte, Gregg; Oben, Jolien; Prenen, Leen; Schobbens, Jean Christophe; Vlasselaer, Jos; Van Holsbeke, Caroline; Debrock, Guy; Van Eycken, Peter & De Jonge, Eric (2015). Outcome of Epithelial Ovarian Cancer Time for Strategy Trials to Resolve the Problem of Optimal Timing of Surgery.

BRUYNDONCKX, Robin; HENS, Niel; AERTS, Marc; GOOSSENS, Herman; CORTIÑAS ABRAHANTES, José & COENEN, Samuel (2015). Exploring the association between resistance and outpatient antibiotic use expressed as DDDs or packages.


Willem, Lander; Stijven, Sean; Tijskens, Engelbert; Beutels, Philippe; HENS, Niel & Broeckhove, Jan (2015). Optimizing agent-based transmission models for infectious diseases.
In: BMC BIOINFORMATICS, 16. [Article - cat: A1]


Comparison of risks of cardiovascular events in the elderly using standard survival analysis and multiple-events and recurrent-events methods.
In: BMC MEDICAL RESEARCH METHODOLOGY, 15. [Article - cat: A1]


In: STATISTICS. [Article - cat: A1]

Alanya, Ahu; Wolf, Christof & Sotto, Cristina (2015). *Comparing multiple imputation and propensity-score weighting in unit-nonresponse adjustments a simulation study.*

Milanzi, Elasma; ALONSO ABAD, Ariel; Molenberghs, Geert; Buyck, Christophe & Bijnens, Luc (2015). *Impact of selection bias on the evaluation of clusters of chemical compounds in the drug discovery process.*


Praet, Jelle; Santermans, Eva; Daans, Jasmijn; Le Blon, Debbie; Hoornaert, Chloe; Goossens, Herman; Hens, Niel; Van der Linden, Annemie; Berneman, Zwi & Ponsaerts, Peter (2015). *Early Inflammatory Responses Following Cell Grafting in the CNS Trigger Activation of the Subventricular Zone: A Proposed Model of Sequential Cellular Events.*

Kifle, Yimer Wasihun; Goeyvaerts, Nele; Van Kerckhove, Kim; Willem, Lander; Faes, Christel; Leirs, Herwig; Hens, Niel & Beutels, Philippe (2015). *Animal Ownership and Touching Enrich the Context of Social Contacts Relevant to the Spread of Human Infectious Diseases.*
In: PLOS ONE, 10 (7). [Article - cat: A1]


De Paepe, Domien; Coudijzer, Katleen; Noten, Bart; VALKENBORG, Dirk; Servaes, Kelly; De Loose, Marc; Diels, Ludo; Voorspoels, Stefan & Van Droogenbroeck, Bart (2015). Pilot-scale production of cloudy juice from low-quality pear fruit under low-oxygen conditions. In: FOOD CHEMISTRY, 173, p. 827-837. [Article - cat: A1]


GYSELAERS, Wilfried; STAELENS, Anneleen; Mesens, T.; TOMSIN, Kathleen; OBEN, Jolien; VONCK, Sharona; VERRESEN, Luc & MOLENBERGHS, Geert (2015). Maternal
venous Doppler characteristics are abnormal in pre-eclampsia but not in gestational hypertension.

Veraverbeke, Noël; Gijbels, Irène & Omelka, Marek (2015). Estimation of a copula when a covariate affects only marginal distributions.

In: Lifetime data analysis. [Article - cat: A1]


Vanden Driessche, Koen; Hens, Niel; Tilley, Peter; de Groot, Ronald; Cotton, Mark F.; Marais, Ben J.; Speert, David P. & Zlosnik, James E. A. (2015). Surgical Masks Reduce Airborne Spread of Pseudomonas aeruginosa in Colonized Patients with Cystic Fibrosis.


Goossens, Eva; Fieuws, Steffen; Van Deyk, Kristien; Luyckx, Koen; Gewillig, Marc; Budts, Werner & Moons, Philip (2015). Effectiveness of Structured Education on Knowledge and Health Behaviors in Patients with Congenital Heart Disease.

Praet, Jelle; Orije, Jasmien; Kara, Firat; Guglielmetti, Caroline; SANTERMANS, Eva; Daans, Jasmijn; HENS, Niel; Verhoye, Marleen; Berneman, Zwi; Ponsaerts, Peter & Van der Linden, Annemie (2015). Cuprizone-induced demyelination and demyelination-associated inflammation result in different proton magnetic resonance metabolite spectra.

De Vijlder, Thomas; VALKENBOURG, Dirk; Dewaele, Debbie; Remmerie, Noor; Laukens, Kris & Witters, Erwin (2015). A generic approach for “shotgun” analysis of the soluble proteome of plant cell suspension cultures.

FREDERIX, Ines; HANSEN, Dominique; CONINX, Karin; VANDERVOORT, Pieter; VANDIJCK, Dominique; HENS, Niel; Van Craenenbroeck, Emeline; Van Driessche, Niels & DENDALE, Paul (2015). Medium-Term Effectiveness of a Comprehensive Internet-Based and Patient-Specific Telerehabilitation Program With Text Messaging Support for Cardiac Patients: Randomized Controlled Trial.

McDonald, Scott A.; Devleesschauwer, Brecht; Speybroeck, Niko; HENS, Niel; Praet, Nicolas; Torgerson, Paul R.; Havelaar, Arie H.; Wu, Felicia; Tremblay, Marlene; Amene, Ermias W. & Doepfer, Doerte (2015). Data-driven methods for imputing national-level
incidence in global burden of disease studies.
In: BULLETIN OF THE WORLD HEALTH ORGANIZATION, 93 (4), p. 228-236. [Article -
cat: A1]

Hanon, Jean-Baptiste; Jaspers, Stijn; Butaye, Patrick; Wattiau, Pierre; Méric, Estelle; Aerts,
Marc; Imberechts, Hein; Vermeersch, Katie & Van der Stede, Yves (2015). A trend analysis
of antimicrobial resistance in commensal Escherichia coli from several livestock species in
Belgium (2011-2014).
In: PREVENTIVE VETERINARY MEDICINE, 122 (4), p. 443-452. [Article -
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Multi-disease analysis of maternal antibody decay using non-linear mixed models accounting
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In: STATISTICS IN MEDICINE, 34 (20), p. 2858-2871. [Article -
cat: A1]

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MOLENBERGHS, Geert & Lipkovich, Ilya (2015). To adjust or not to adjust for baseline
when analyzing repeated binary responses? The case of complete data when treatment
comparison at study end is of interest.
In: PHARMACEUTICAL STATISTICS, 14 (3), p. 262-271. [Article -
cat: A1]

Jiang, Honghua; Kulkarni, Pandurang M.; Mallinckrodt, Craig H.; Shurzinske, Linda;
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Repeated Binary Responses With Missing Data.
In: STATISTICS IN BIOPHARMACEUTICAL RESEARCH, 7 (3), p. 238-250. [Article -
cat: A1]

KASIM, Adetayo; SHKEDY, Ziv; LIN, Dan; VAN SANDEN, Suzy; CORTINAS
ABRAHANTES, Jose; Goehlmann, Hinrich W. H.; BIJNENS, Luc; Yekutieli, Dani; Camilleri,
Michael; Aerssens, Jeroen & TALLOEN, Willem (2015). Translation of disease associated
gene signatures across tissues.
In: INTERNATIONAL JOURNAL OF DATA MINING AND BIOINFORMATICS, 11 (3), p. 301-
313. [Article -
cat: A1]

Lefevere, Eva; Theeten, Heidi; Hens, Niel; De Smet, Frank; Top, Geert & Van Damme,
Pierre (2015). From non school-based, co-payment to school-based, free Human
Papillomavirus vaccination in Flanders (Belgium): A retrospective cohort study describing
vaccination coverage, age-specific coverage and socio-economic inequalities.
In: VACCINE, 33 (39), p. 5188-5195. [Article -
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comparing multiple imputation methods for incomplete longitudinal ordinal data.

OGUNJIMI, Benson; Willem, Lander; Beutels, Philippe & HENS, Niel (2015). Integrating
between-host transmission and within-host immunity to analyze the impact of varicella
vaccination on zoster.
In: ELIFE, 4. [Article - cat: A1]

Godet, Cendrine; Laurent, Francois; Béraud, Guillaume; Toper, Cécile; Camara, Boubou;
Philippe, Bruno; Germaud, Patrick; Cottin, Vincent; Beigelman-Aubry, Catherine; Khalil,
Antoine; Blouin, Pascal; Pouriel, Mathilde; Roblot, France; Bergeron, Anne & Cadranel,

SAENEN, Nelly; PLUSQUIN, Michelle; BIJNENS, Esmee; JANSSEN, Bram; GYSELAERS, Wilfried; COX, Bianca; FIERENS, Frans; MOLENBERGHS, Geert; PENDERS, Joris; VRIJENS, Karen; DE BOEVER, Patrick & NAWROT, Tim (2015). In Utero Fine Particle Air Pollution and Placental Expression of Genes in the Brain-Derived Neurotrophic Factor Signaling Pathway: An ENVIRONAGE Birth Cohort Study. In: Environmental health perspectives, 123 (8), 834-840. [Article - cat: A1]

KICINSKI, Michal; Vrijens, Jan; Vermier, Griet; Den Hond, Elly; Schoeters, Greet; Nelen, Vera; BRUCKERS, Liesbeth; Sioen, Isabelle; Baeyens, Willy; Van Larebeke, Nicolas; Viene, Mineke K. & NAWROT, Tim (2015). Neurobehavioral function and low-level metal exposure in adolescents. In: INTERNATIONAL JOURNAL OF HYGIENE AND ENVIRONMENTAL HEALTH, 218 (1), p. 139-146. [Article - cat: A1]

Marien, Eyra; Meister, Michael; Muley, Thomas; Fieuws, Steffen; Bordel, Sergio; Derua, Rita; Spraggin, Jeffrey; Van de Plas, Raf; Dehairs, Jonas; Wouters, Jens; Bagadi, Muralidhararao; Dienemann, Hendrik; Thomas, Michael; Schnabel, Philipp A.; Caprioli, Richard M.; Waelkens, Etienne & Swinnen, Johannes V. (2015). Non-small cell lung cancer is characterized by dramatic changes in phospholipid profiles. In: INTERNATIONAL JOURNAL OF CANCER, 137 (7), p. 1539-1548. [Article - cat: A1]


Costa, Roberta; Bergwerf, Irene; SANTERMANS, Eva; De Vocht, Nathalie; Praet, Jelle; Daans, Jasmin; Le Blon, Debbie; Hoomaert, Chloe; Reekmans, Kristien; HENS, Niel; Goossens, Herman; Berneman, Zwi; Parolini, Ornella; Alviano, Francesco & Ponsaerts,


KICINSKI, Michal; Vermeir, Griet; Van Larebeke, Nicolas; Den Hond, Elly; Schoeters, Greet; BRUCKERS, Liesbeth; Sioen, Isabelle; BIJNENS, Esmee; ROELS, Harry; Baeyens, Willy; Viaene, Mineke K. & NAWROT, Tim (2015). *Neurobehavioral performance in adolescents is inversely associated with traffic exposure.* In: *ENVIRONMENT INTERNATIONAL*, 75, p. 136-143. [Article - cat: A1]


Ombelet, Willem; Martens, G. & Bruckers, Liesbeth (2015). *Pregnant after assisted reproduction: a risk pregnancy is born! 18-years results from a population-based registry in*

In: EUROPEAN HEART JOURNAL, 36 (S1), p. 310-310. [Meeting Abstract - cat: M]

Savina, Marion; Litiere, Saskia; Penel, Nicolas; Rondeau, Virginie; Burzykowski, Tomasz; Toulmonde, Maud; Italiano, Antoine; Mathoulin-Pelissier, Simone & Bellera, Carine A. (2015). Surrogate properties of survival endpoints in metastatic soft-tissue sarcoma: A meta-analysis.

In: HUMAN REPRODUCTION, 30 (S1), p. 176-176. [Meeting Abstract - cat: M]

In: HUMAN REPRODUCTION, 30 (S1), p. 160-160. [Meeting Abstract - cat: M]

Book Section

In: Wiley StatsRef: Statistics Reference Online. [cat: B3]

Proceedings Paper

Kovac, Thomas; Rogmans, Sammy & Van Reeth, Frank (2015). Computing Corpus Callosum as Biomarker for Degenerative Disorders.
In: Proceedings of the 10th International Conference on Computer Vision Theory and Applications, p. 138-149. [cat: C1]

In: Kepler, Johannes (Ed.) Proceedings of the 30th International Workshop on Statistical Modelling, p. 39-42. [cat: C2]

Conference Material


Research report


Van De Vreken, Philippe; Gobin, Anne; Verhasselt, Anneleen; Smolders, Erik & Merckx, Roel (2015). Carbon sequestration in maize dominant cropping systems in Flanders as revealed by stable carbon isotope analysis. [cat: R2]


Gijbels, Irène; Verhasselt, Anneleen & Vrinssen, Inge (2015). Robust nonnegative garrote. [cat: R2]


Working Paper

Gijbels, Irène; Ibrahim, Mohammed & Verhasselt, Anneleen (2015). Quantile regression in varying coefficient models with heteroscedastic error. [cat: R2]

AHKIM, Mohamed; Verhasselt, Anneleen & Gijbels, Irène (2015). Testing for monotonicity in varying coefficient models. [cat: R2]

Hendrickx, Kim; Janssen, Paul & Verhasselt, Anneleen (2015). Regression models with varying coefficients in survival data: the Buckley James estimator. [cat: R2]

Thesis/Dissertation


Neyens, Thomas (2015). Modeling Complex Data with Spatial Correlation, Zero-inflation and


2014

Journal Contribution

Verbeke, Geert; Fieuws, Steffen; Molenberghs, Geert & Davidian, Marie (2014). The analysis of multivariate longitudinal data: a review.


Kelchtermans, Pieter; Bittremieux, Wout; De Grave, Kurt; Degroeve, Sven; Ramon, Jan; Laukens, Kris; VALKENBORG, Dirk; Barsnes, Harald & Martens, Lennart (2014). Machine learning applications in proteomics research: How the past can boost the future.

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JANSSEN, Paul; SWANEPOEL, Jan & VERAVERBEKE, Noel (2014). A note on the asymptotic behavior of the Bernstein estimator of the copula density.

Grobler, Anneke C.; Matthews, Glenda & Molenberghs, Geert (2014). The impact of missing data on clinical trials: a re-analysis of a placebo controlled trial of hypericum perforatum (St John’s Wort) and sertraline in major depressive disorder.

AZMON, Amin; FAES, Christel & HENS, Niel (2014). On the estimation of the reproduction number based on misreported epidemic data.

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Maternal Arsenic Exposure and Decreased Birth Weight.

Croes, Kim; Den Hond, Elly; BRUCKERS, Liesbeth; Loots, Ilse; Morrens, Bert; Nelen, Vera; Colles, Ann; Schoeters, Greet; Sioen, Isabelle; Covaci, Adrian; Vandermarken, Tara; Van Larebeke, Nicolas & Baeyens, Willy (2014). Monitoring chlorinated persistent organic pollutants in adolescents in Flanders (Belgium): Concentrations, trends and dose-effect relationships (FLEHS II).

In: Statistical Applications in Genetics and Molecular Biology, 14 (1), p. 21-34. [Article - cat: A1]

Vande Voorde, Johan; Sabuncuoglu, Suna; Noppen, Sam; Hofer, Anders; Ranjbarian, Farahnaz; FIEUWS, Steffen; Balzarini, Jan & Liekens, Sandra (2014). Nucleoside-catabolizing Enzymes in Mycoplasma-infected Tumor Cell Cultures Compromise the Cytostatic Activity of the Anticancer Drug Gemcitabine.


Gonzalez Montoro, Aldana M.; Cao, Ricardo; FAES, Christel; MOLENBERGHS, Geert; Espinosa, Nelson; Cudeiro, Javer & Marino, Jorge (2014). CROSS NEAREST-SPIKE INTERVAL BASED METHOD TO MEASURE SYNCHRONY DYNAMICS.


Ghijselings, Ines; Brosens, Veronique; Willems, Guy; FIEUWS, Steffen; Clijmans, Maite & Lemiere, Jurgen (2014). Normative and self-perceived orthodontic treatment need in 11-to 16-year-old children.

NJAGI, Edmund Njeru; MOLENBERGHS, Geert; KENWARD, Michael G.; VERBEKE, Geert & RIZOPoulos, Dimitris (2014). A characterization of missingness at random in a generalized shared-parameter joint modeling framework for longitudinal and time-to-event
data, and sensitivity analysis.

OGUNJIMI, Benson; Smits, Evelien; Heynderickx, Steven; Van den Bergh, Johan; Bilcke, Joke; Jansens, Hilde; Malfait, Ronald; Ramet, Jose; Maecker, Holden T.; Cools, Nathalie; Beutels, Philippe & Van Damme, Pierre (2014). Influence of Frequent Infectious Exposures on General and Varicella-Zoster Virus-Specific Immune Responses in Pediatricians.

Lernout, Tinne; Theeten, Heidi; HENS, Niel; Braeckman, Tessa; Roelants, Mathieu; Hoppenbrouwers, Karel & Van Damme, Pierre (2014). Timeliness of infant vaccination and factors related with delay in Flanders, Belgium.

DE BOEVER, Patrick; Wens, Britt; Forcheh, Anyiawu Chiara; Reynders, Hans; Nelen, Vera; Kleijnjans, Jos; Van Larebeke, Nicolas; VERBEKE, Geert; VALKENBORG, Dirk & Schoeters, Greet (2014). Characterization of the peripheral blood transcriptome in a repeated measures design using a panel of healthy individuals.


SOLMI, Francesca & Onghena, Patrick (2014). Combining p-values in replicated single-case experiments with multivariate outcome.


NYSEN, Ruth; FAES, Christel; Ferrari, Pietro; Verger, Philippe & AERTS, Marc (2014). Parametric and semi-nonparametric model strategies for the estimation of distributions of chemical contaminant data.

Satty, A.; Mwambi, H. & MOLENBERGHS, Geert (2014). Different methods for handling longitudinal binary outcome subject to potentially random dropout.

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Masui, Chris; Broeckmans, Jan; Doumen, Sarah; Groenen, Anne & Molenberghs, Geert (2014). Do diligent students perform better? Complex relations between student and course characteristics, study time, and academic performance in higher education.

Mesens, Tinne; TOMSIN, Kathleen; STAELENS, Anneleen; OBEN, Jolien; MOLENBERGHS, Geert & GYSELAERS, Wilfried (2014). Is there a correlation between maternal venous hemodynamic dysfunction and proteinuria of preeclampsia?

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Diya, Luwis; Li, Baoyue; Van den Heede, Koen; Sermeus, Walter & LEASAFFRE, Emmanuel (2014). Multilevel factor analytic models for assessing the relationship between nurse-reported adverse events and patient safety.

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Willem, Lander; Stijven, Sean; Vladislavleva, Ekaterina; Broeckhove, Jan; Beutels, Philippe & HENS, Niel (2014). Active learning to understand infectious disease models and improve policy making.

Bertrand, Valerie; FIEUWS, Steffen; Stalmans, Ingeborg & Zeyen, Thierry (2014). Rates of visual field loss before and after trabeculectomy.

Van Beirendonck, Sanne; Van Thielen, Jos; VERBEKE, Geert & Driessen, Bert (2014). The association between sow and piglet behavior.


Stevens, An; Hansen, Dominique; Vandoren, Vincent; Westerlaken, Rob; Creemers, An; Eijnde, Bert O. & Dendale, Paul (2014). Mandatory oral glucose tolerance tests identify more diabetics in stable patients with chronic heart failure: a prospective observational study.

Attitudes and stigma in relation to help-seeking intentions for psychological problems in low and high suicide rate regions.

Ravindranath, Aakash Chavan; PERUALILA-TAN, Nolen; KASIM, Adetayo; Drakakis, Georgios; Liggi, Sonia; Brewerton, Suzanne; Mason, Daniel; Bodkin, Michael; Bhagwat, Aditya; TALLOEN, Willem; Gohlmann, Hinrich; Qstar Consortium; SHKEDY, Ziv & Bender, Andreas (2014). Connecting gene expression data from connectivity map and in silico target predictions for small molecule mechanism-of-action analysis.


STEVENS, An-Sofie; PIROTTE, Nicky; PLUSQUIN, Michelle; Willems, Maxime; NEYENS, Thomas; ARTOIS, Tom & SMEETS, Karen (2014). Toxicity profiles and solvent-toxicant interference in the planarian Schmidtea mediterranea after dimethylsulfoxide (DMSO) exposure.

KALEMA, George; Iddi, Samuel & Molenberghs, Geert (2014). The combined model: A tool for simulating correlated counts with overdispersion.
In: Communications in statistics. Simulation and computation. [Article - cat: A1]

Del Fava, Emanuele; Shkedy, Ziv; Aregay, Mehreteab & Molenberghs, Geert (2014). Modeling multivariate, overdispersed binomial data with additive and multiplicative random effects.

BIERMANS, Geert; HOREMANS, Nele; HENS, Niel; VIVES I BATTLE, Jordi; VANDENHOVE, Hildegarde & CUYPERS, Ann (2014). A dynamic dosimetry model for radioactive exposure scenarios in Arabidopsis thaliana.

Trung Nghia, Vu; Bittremieux, Wout; VALKENBORG, Dirk; GOETHALS, Bart; Lemiere, Filip & Laukens, Kris (2014). Efficient Reduction of Candidate Matches in Peptide Spectrum Library Searching Using the Top k Most Intense Peaks.


Jaspers, Stijn; Aerts, Marc; Verbeke, Geert & Beloeil, Pierre-Alexandre (2014). A new semiparametric mixture model for interval censored data, with applications in the field of antimicrobial resistance.


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Censabella, Sandrine; Claes, Stefan; Orlandini, Marc; BRAEKERS, Roel; THIJS, Herbert & BULENS, Paul (2014). Retrospective study of radiotherapy-induced skin reactions in breast cancer patients: Reduced incidence of moist desquamation with a hydroactive colloid gel versus dexpanthenol.

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