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M.Sc. in Biostatistics
Bachelor Chemistry (A1)
Bachelor Computer Programming (B1)
Languages: Dutch, English,
French, German, Greek, Turkish

CAREER PROFILE

Independent statistical consultant and part-time researcher at I-BioStat, Hasselt University, Diepenbeek, Belgium.

Past:

Director Biostatistics, Barrier Therapeutics NV (2002-2008). Statistical consultant at the Center for Statistics, Limburgs Univeritair Centrum, Diepenbeek (2001-2002). Senior biostatistician in pharmaceutical discovery research at Janssen Research Foundation (1985-2001). Data analyst specialized in the processing and statistical analysis of cardiovascular safety and efficacy data (1975-1985). Laboratory assistant in antihypertensive research (1972-1975). Organic chemist (1971-1972).

CAREER HISTORY

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| 2008- Now | Independent Statistical Consultant – Data mining and predictive modeling of clinical outcomes, evaluation of health related patient satisfaction and patient responsiveness, sample size calculations and clinical trial design |
| 2002 – 2008 | Director Biostatistics , Barrier Therapeutics nv, Belgium and part-time researcher at the Center for Statistics, Limburgs Univeritair Centrum, Diepenbeek. Mainly involved with design of Phase I-III trials in dermatology, analysis of clinical and pre-clinical results, management of statistical resources. Collaborative research at Limburgs Universitair Centrum regarding microarray data analysis and drug synergism. |
| 2001 – 2002 | Statistical Consultant, Center for Statistics, Limburgs Universitair Centrum, Diepenbeek, Belgium. Consultancy as expert statistician for Global Biometrics Department, J&J PRI regarding statistical applications in discovery research, bioinformatics, and toxicology.
Noteworthy results: <ul style="list-style-type: none">• Development of XANTIPE a system for automated statistical analysis in discovery research• Design and analysis of drug synergy experiments• Analysis of micro-array data using innovative statistical approaches, resulting in several presentations and publication in Biometrics• Involved with introduction of PROVANTIS and harmonisation of JRF-PRI statistical analyses in toxicology• Teaching of a course “Planning of Experiments” at students in Biomedical Sciences at the Vlaamse Universiteit Brussel (VUB)• Teaching of a course on experimental design at the CODA institute, Ukkel• Consulting statistician for the <i>FuturCare</i> project regarding usage of modern |

psychopharmaca in psychiatry

- Teaching of a course on data processing and statistics for biotechnicians (BCLAS)

1985 – 2001

Senior Scientist Biostatistics at the Janssen Research Foundation, Beerse, responsible for statistical support in different areas of discovery research, i.e. CNS, oncology, metabolic diseases, virology, morphology, cardiovascular drug safety, receptor binding, and high throughput screening. This encompassed: consultancy to researchers on experimental design, statistical analysis, and reporting; to completely work-out a solution and produce a report for non-trivial statistical problems; to develop automated solutions using state-of-the-art software tools for recurrent problems. Training of researchers in good experimental practice and basic statistical techniques was an important part of the responsibilities.

Noteworthy results:

- Publications, lectured courses, reports and presentations total 168, of which 48 in peer reviewed international journals
- Teaching of a course “Planning of Experiments” at students in Biomedical Sciences at the Vlaamse Universiteit Brussel (VUB), ongoing (2003)
- Teaching of a course on design of laboratory experiments at the Faculteit voor Diergeneeskunde Rijksuniversiteit Gent at Merelbeke (2000)
- Teaching of a course on data processing and statistics for biotechnicians (BCLAS)
- Organization of courses and teaching of statistics, good experimental practice, and usage of statistical software to discovery and non-clinical development researchers at JRF
- Involvement in “Smart Research Design” and “Communicating Numerical Data” initiatives, two 2-day workshops for discovery research scientists on planning of research projects and visualizing data
- Implementation of a globally distributed system for statistical computing based on StatServer/Splus with applications in receptor binding, biochemistry, virology, and oncology (former JRF Springhouse)
- Introduction of innovative statistical software such as JMP (1995), S-Plus (1995), and PROC StatXact (1999) within JRF
- Automated analysis of cardiovascular drug safety studies using SAS and PROC StatXact, with special attention to data visualization
- Patent (European patent requested) on outlier detection in high throughput screening
- Intrasite web-page “Biostatistics Discovery Research” with useful information about software, courses, etc.
- Implementation of sequential designs for drug screening
- Involvement with data mining of pharmacological data bases

- 1975 – 1985 Data analyst responsible for the processing and statistical analysis of data from the Life Sciences Department (laboratories of cardiovascular pharmacology, morphology, physiology, endocrinology, oncology, and virology), mainly involved with cardiovascular safety and efficacy data.
Noteworthy results:
- Publications, lectured courses, reports and presentations total 127, of which 11 in peer reviewed international journals.
 - Setting up an environment for statistical computing on minicomputer and mainframe
 - Implementation of systems for automated statistical analysis of hemodynamic, antihypertensive screening, and cardiac electrophysiology studies on minicomputer and IBM mainframe
 - Collaboration on a data base for pharmacological information retrieval
 - Multivariate analysis of pharmacological structure-activity relationships and pathological-morphological data
- 1972 – 1975 Laboratory assistant in antihypertensive research, responsible for data analysis and processing of laboratory data, the study of the cerebral circulation using radioactive microspheres, and the screening of centrally acting antihypertensive drugs.
Noteworthy results:
- Publications, lectured courses, reports and presentations total 9, of which 8 in peer reviewed international journals..
 - Studies on cerebral circulation in laboratory animals
 - Quantitative structure-activity relationship (QSAR) of a series of antihypertensive drugs
- 1971 - 1972 Trainee organic chemistry Janssen Pharmaceutica, Chemical Training Center.

EDUCATION

- 1997 Master of science in biostatistics.
1977 Computer programming, higher technical studies (B1), comparable to bachelor USA
1970 Chemistry, higher technical studies (A1), comparable to bachelor USA
1968 Diploma secondary school.

PERSONAL

Born in Turnhout, Belgium on 27/12/1949, single.
Nationality: Belgian

MEMBERSHIPS OF SCIENTIFIC ORGANIZATIONS

Fellow of the Royal Statistical Society since 2004.
Drug Information Agency since 2000.
Three Country Corner RSS Local Group.
Belgische Vereniging voor Statistiek since 1998.
International Biometric Society (Société Adolphe Quetelet) since 1994.
National Geographic Society since 1995.

PATENTS

Wouters, L., Engels, M., Beggs, M. (2001). Method and apparatus for detecting outliers in biological/pharmaceutical screening experiments. European Patent. J1466-EP.

PUBLICATIONS IN PEER REVIEWED JOURNALS & BOOK CHAPTERS

1. Pavez Loriè E, Cools M, Borgers M, Wouters L, Shroot B, Hagforsen E, Törmä H, Vahlquist A. Topical treatment with CYP26 inhibitor talarozole (R115866) dose dependently alters the expression of retinoidregulated genes in normal human epidermis. *Br J Dermatol* **160**: 26–36.
2. Pavez Loriè E, Gånemo A, Borgers M, Wouters L, Blockhuys S, van de Plassche L, Törmä H, Vahlqvist, A. (2009). Expression of retinoid-regulated genes in lamellar ichthyosis vs. healthy control epidermis: changes after oral treatment with liarozole. *Acta Derm Venereol* **89**, 12–20.
3. Decroix J., Ausma, J., Cauwenbergh G., Borgers M., Wouters L. (2008). The efficacy of oral treatment with pramiconazole in tinea pedis and tinea cruris/corporis: two exploratory phase IIa trials. *British Medical Journal* **158**, 854-856.
4. Bijmens L., Wouters L., Verbeeck R., Goehlmann H., Lewi P., (2008). Spectral Map Analysis of Microarray Data. (2008). In Brown S. Tauler R, Walczak B (Eds.) *Comprehensive Chemometrics. Volume 4*. Elsevier, The Netherlands, 197-219.
5. Piérard G., Ausma J., Henry F., Vroome V., Wouters L., Borgers M., Cauwenbergh G., Piérard-Franchimont C. (2007). A Pilot Study on Seborrheic Dermatitis Using Pramiconazole as a Potent Oral Anti-Malassezia Agent. *Dermatology* **214**, 162-169.
6. Van Sanden, S., Wouters, L., Burzykowski, T., Molenberghs, G., Van Remoortere, M., Meert, T., Bijmens, L. (2006). A modeling approach to the analysis of nerve regenerative experiments. *Journal of Biopharmaceutical Statistics*, **16**, 843–859.
7. Piérard-Franchimont, C., Ausma, J., Wouters, L., Vroome, V., Vandeplassche, L., Borgers, M., Cauwenbergh, G., Piérard, G. (2006). Activity of the triazole antifungal R126638 as assessed by corneofungimetry. *Skin Pharmacol Physiol*. **19**, 50-56.
8. Vandebroek, P., Wouters, L., Molenberghs, G., Van Gestel, S., Bijmens, L. (2005). Teaching statistical thinking to life scientists - a case-based approach. *Journal of Biopharmaceutical Statistics*, **16**, 61-75.
9. Wouters, L., Göhlmann, H.W., Bijmens, L., Kass, S.U., Molenberghs, G., Lewi, P.J. (2005). Rejoinder to use of principal component analysis and the GE -Biplot for the graphical exploration of gene expression data. *Biometrics* **61**, 632-634.
10. Straetemans, R., O'Brien, T., Wouters, L., Van Dun, J., Janicot, M., Bijmens, L., Burzykowski, T., Aerts, M. (2005). Design an analysis of drug combination experiments. *Biometrical Journal* **47**, 299-308.
11. Bijmens L., Lewi P., Goehlmann H., Molenberghs G., Wouters L. (2004). Spectral map-analysis: a method to analyze gene expression data.- *Proceedings of the American Statistical Association, Biopharmaceutical Section* 553-559, American Statistical Association, Alexandria, VA

12. Wouters, L., Göhlmann, H.W., Bijmens, L., Kass, S.U., Molenberghs, G., Lewi, P.J. (2003). Graphical exploration of gene expression data: a comparative study of three multivariate methods. *Biometrics* **59**, 1133-1141.
13. Engels, M.F.M., Wouters, L., Verbeek, R., Vanhoof, G. (2002). Outlier mining in high-throughput screening experiments. *Journal of Biomolecular Screening* **7**, 341-351.
14. Ausma, J., Litjens, N., Lenders, M-H., Duimel, H., Mast, F., Wouters, L., Ramaekers, F., Allessie, M., and Borgers, M. (2001). Time course of atrial fibrillation-induced cellular structural remodeling in atria of the goat. *Journal of Molecular and Cellular Cardiology* **33**, 2083-94.
15. Wouters, L., Liu, G.S., Flameng, W., Thijssen, V., Thoné, F., Borgers, M., (2000). Structural remodeling of atrial myocardium in patients with cardiac valve disease and atrial fibrillation. during chronic atrial fibrillation secondary to cardiac valve disease in man. *Experimental and Clinical Cardiology* **5**, 158-163
16. Engelborghs, K., Haseldonckx, K., Van Reempts, J., van Rossem, K., Wouters, L., Borgers, M., Verlooy, J. (2000). Impaired autoregulation of cerebral blood flow in an experimental model of traumatic brain injury. *Journal of Neurotrauma* **17**,667-677
17. Abs, R., Smets, G., Vauquelin, G., Verhelst, J., Mahler, C., Verlooy, J., Stevenaert, A., Wouters, L., Borgers, M., Beckers, A. (1997). 125I-Tyr0-hCRH labelling characteristics of corticotropin-releasing hormone receptors: differences between normal and adenomatous corticotrophs. *Neurochemistry International* **30**, 291-297
18. Ausma, J., Wijffels, M., Thoné, F., Wouters, L., Allessie, M., Borgers, M. (1997). Structural changes of atrial myocardium due to sustained atrial fibrillation in the goat. *Circulation* **96**, 3157-3163
19. Haseldonckx, M., Van Reempts, J., Van De Ven, M., Wouters, L., Borgers, M. (1997) Protection with lubeluzole against delayed ischemic brain damage in rats. A quantitative histopathologic study. *Stroke* **28**, 428-432
20. Schoofs, A., Odds, F.C., Colebunders, R., Ieven, M., Wouters, L., Goossens, H. (1997). Isolation of *Candida* species on media with and without added fluconazole reveals high variability in relative growth susceptibility phenotypes. *Antimicrobial Agents & Chemotherapy* **41**, 1625-1635.
21. van Rossem, K., Vermarien, H., Faithfull, N.S., Wouters, L., Decuyper, K. (1997). Effects of perflubron emulsion and 100% oxygen breathing on local tissue PO₂ in brain cortex of unanaesthetized rabbits. *Advances in Experimental Medicine & Biology* **411**, 403-409.
22. Geerts, H., Nuydens, R., De Jong, M., Cornelissen, F., Nuyens, R., Wouters, L. (1996). Sabeluzole stabilizes the neuronal cytoskeleton. *Neurobiology of Aging* **17**, 573-581.
23. Van Ginckel, R., Janssens, B., Callens, M., Goeminne, N., Wouters, L., De Coster, R. (1996). Effects of combined and sequential treatment with tamoxifen and the aromatase inhibitor vorozole on 7,12-dimethylbenz(a) anthracene-induced mammary carcinoma in the rat. *Cancer Chemotherapy & Pharmacology* **38**, 21-28
24. Dijkman, G.A., Van Moorselaar, R.J., Van Ginckel, R., Van Stratum, P., Wouters, L., Debruyne, F.M. Schalken, J.A., De Coster, R. (1994). Antitumoral effects of liarozole in androgen-dependent and independent R3327-Dunning prostate adenocarcinomas. *Journal of Urology* **151**, 217-222.

25. Borgers, M., De Nollin, S., Thoné, F., Wouters, L., Van Vaeck, L., Flameng, W. (1993). Distribution of calcium in a subset of chronic hibernating myocardium in man. *Histochemical Journal* **25**, 312-318.
26. Borgers, M., Thoné, F., Wouters, L., Ausma, J., Shivalkar, B., Flameng, W. (1993). Structural correlates of regional myocardial dysfunction in patients with critical coronary-artery stenosis – chronic hibernation. *Cardiovascular Pathology* **2**, 237-245.
27. Cornelissen, F., Wouters, L., Ver Donck, L., Verellen, G., Geerts, H. (1993). Automatic quantification of the effect of cardioprotective drugs in isolated myocytes. *Bioimaging* **1**, 197-206.
28. Dikova, M., Van Reempts, J., Wouters, L., Clincke, G., Borgers, M. (1993). Learning performance at different time periods after hypoxia in infant rats. *Acta Neurobiologiae Experimentalis* **53**, 467-471.
29. Vandeplassche, G., Hermans, C., Van Dael, L., Wouters, L., De Clerck, F. (1993). Interplay between platelet-derived 5-hydroxytryptamine and arachidonic acid metabolites limits the thrombolytic efficacy of streptokinase against canine platelet-rich coronary thrombosis. *Journal of Cardiovascular Pharmacology* **21**, 56-69.
30. Van Ginckel, R., Distelmans, W., De Brabander, M., Callens, M., Janssens B., Jagers, E., Wouters, L., De Coster, R., Janssen, P.A. (1992). Levamisole plus 5-fluorouracil inhibits the growth of human colorectal xenografts in nude mice. *European Journal of Cancer* **28A(6-7)**, 1137-1139.
31. Vandeplassche, G.M. Hermans, C.F. de Chaffoy de Courcelles, D.R., D'Aubioul, J.A., Wouters, L.J., De Clerck, F.F. (1992). Comparative effects of R 80122, enoximone, and milrinone on left ventricular phosphodiesterase isoenzymes in vitro and on contractility of normal and stunned myocardium in vivo in dogs. *Journal of Cardiovascular Pharmacology* **19**, 714-722.
32. Weber, C., Beetens, J.R., Tegtmeier, F., Van Rooy, P., Vercammen, E., Wouters, L., De Clerck, F., (1992). Ridogrel inhibits systemic and renal formation of thromboxane A2 and antagonizes platelet thromboxane A2/prostaglandin endoperoxide receptors upon chronic administration to man. *Thrombosis & Haemostasis* **68**, 214-220.
33. Distelmans, W., Van Ginckel, R., Vanherck, W., Willebrords, R., Wouters, L., De Brabander, M., Mesens, J. (1991). Erbulozole (P.I.N.N.) (R 55 104) encapsulated into cyclodextrins: has it a combined antitumoral and radioprotective potential ? *Anticancer Research* **11**, 253-256.
34. Jansen, T., Borgers, M., Van De Ven, M.A., Xhonneux, B., Wouters, L., Van Gerven, F., Van Cutsem, J. (1991). The effects of saperconazole on the morphology of *Candida albicans*, *Pityrosporum ovale* and *Trichophyton rubrum* in vitro. *Journal of Medical & Veterinary Mycology* **29**, 293-303
35. Nevelsteen, A., Wouters, L., Suy, R. (1991). Aortofemoral dacron reconstruction for aortoiliac occlusive disease: a 25-year survey. *European Journal of Vascular Surgery* **5**, 179-186.
36. Nevelsteen, A., Wouters, L., Suy, R. (1991). Long-term patency of the aortofemoral Dacron graft. A graft limb related study over a 25-years period. *Journal of Cardiovascular Surgery* **32**, 174-180.
37. Van De Water, A., D'Aubioul, J., Van Gerven, W., Wouters, L., Reneman, R.S., Xhonneux, R. (1991). Astemizole: effects on the cardiovascular system of the dog. *Japanese Pharmacology and Therapeutics (Yakuri to Chiryō)* **19(5)**, 109-122.

38. Vandeplassche, G. Hermans, C., Wouters, L., Borgers, M. (1991). Effects of R 56,865, a preventer of cellular calcium overload, on left ventricular diastolic properties during pacing-induced ischemia in dogs. *Journal of Cardiovascular Pharmacology* **17**, 621-626.
39. Vandeplassche, G., Hermans, C., Van de Water, A., Xhonneux, R., Wouters, L., Van Ammel, K., De Clerck, F. (1991). Differential effects of thromboxane A2 synthase inhibition, singly or combined with thromboxane A2/prostaglandin endoperoxide receptor antagonism, on occlusive thrombosis elicited by endothelial cell injury or by deep vascular damage in canine coronary arteries. *Circulation Research* **69**, 313-324.
40. Vandeplassche, G., Hermans, C., Van Haecke, J., Wouters, L., Borgers, M. Flameng, W. (1991). Evaluation of factors influencing myocardial infarct size in unconscious dogs. *Cardiovascular Research* **25**, 844-854, 1991
41. Vandeplassche, G., Lu, H.R., Wouters, L., Flameng, W., Borgers, M. (1991). Normothermic ischemic cardiac arrest in the isolated working rabbit heart: effects of dl-nebivolol and atenolol. *Basic Research in Cardiology* **86**, 21-31.
42. Ver Donck, L., Wouters, L., Olbrich, H.G., Mutschler, E. (1991). Effect of nebivolol on survival of cardiomyopathic hamsters with congestive heart failure. *Drug Investigation* **3** (Suppl 1), 82-85.
43. Ver Donck, L., Wouters, L., Olbrich, H.G., Mutschler, E., Borgers, M. (1991). Nebivolol increases survival in cardiomyopathic hamsters with congestive heart failure. *Journal of Cardiovascular Pharmacology*. **18**,1-3.
44. Verheyen, A., Lauwers, F., Vlaminckx, E., Wouters, L., De Clerck, F. (1991). Oversensitivity to serotonin of the collateralized vascular bed in rat hindquarters – mechanisms of increased vasoconstriction. *European Journal of Pharmacology* **194**, 209-216
45. Andries, K., Dewindt, B., Snoeks, J., Wouters, L., Moereels, H., Lewi, P.J., Janssen, P.A.J. (1990). Two groups of rhinoviruses revealed by a panel of antiviral compounds present sequence divergence and differential pathogenicity. *Journal of Virology* **64**, 1117-1123.
46. De Clerck, F., Loots, W., Somers, Y., Beetens, J., Wouters, L., Wynants, J., Janssen, P.A. (1990). 5-Hydroxytryptamine and arachidonic acid metabolites modulate extensive platelet activation induced by collagen in cats in vivo. *British Journal of Pharmacology* **99**, 631-636.
47. Lu, H.R. Vandeplassche, G., Wouters, L., Flameng, W., Borgers, M. (1990). Effects of beta-adrenoceptor antagonists on cardiac function in ischemic-reperfused myocardium of the isolated working rabbit heart. *European Journal of Pharmacology* **184**, 65-74
48. Van Ginckel, R., De Coster, R., Wouters, W., Vanherck, W., van der Veer, R., Goeminne, N., Jagers, E., Van Cauteren, H., Wouters, L., Distelmans, W. (1990). Antitumoral effects of R 75251 on the growth of transplantable R3327 prostatic adenocarcinoma in rats. *Prostate* **16**, 313-323.
49. Xhonneux, R., Wouters, L., Reneman, R.S., Janssen, P.A. (1990). The l-enantiomer of nebivolol potentiates the blood pressure lowering effect of the d-enantiomer. *European Journal of Pharmacology* **181**, 261-265
50. Distelmans, W., Van Ginckel, R., Vanherck, W., Willebrords, R., De Brabander, M., Wouters, L., Heeres, J. (1989). Influence of the synthetic microtubule inhibitor erbulozole (P.I.N.N.) (R 55 104), a new tubulozole congener, and gamma irradiation on murine tumors in vivo. *European Journal of Cancer & Clinical Oncology* **25**, 1499-1504.

51. Distelmans, W., Van Ginckel, R., Vanherck, W., Willebrords, R., De Brabander, M., Wouters, L. Van den Winkel, P., De Backer, G. (1989). Interaction between the microtubule inhibitor tubulozole and gamma-irradiation in murine tumors in vivo. *International Journal of Radiation Oncology, Biology, Physics* **16**, 177-182.
52. Lu, H.R., Vandeplassche, G., Wouters, L., Borgers, M. (1989). Beta-blockade in the ischemic reperfused working rabbit heart: dissociation of beta-adrenergic blocking and protective effects. *Archives Internationales de Pharmacodynamie et de Therapie* **301**, 165-181.
53. Liu, G-S., Borgers, M., Xhonneux, R., Van Overloop, P., Thoné, F., Wouters, L., Leijssen, L., Janssen, P. (1988). Protective effects of lidoflazine and mioflazine in ischemic myocardium (in Chinese). *Chinese Journal of Cardiology* **16**, 100-102.
54. Verheyen, A., Vlaminckx, E., Lauwers, F., Borgers, M., Wouters, L. (1987). Radioactive colloidal gold as a tool to quantify extravasation of macromolecules in the rat cremaster muscle. *International Journal of Microcirculation: Clinical & Experimental* **5**, 321-333.
55. Liu, G.S., Borgers, M., Xhonneux, R., Van Overloop, P., Thoné, F., Wouters, L., Leijssen, L. (1986). Evaluation of protective effects of lidoflazine and mioflazine in cardiac ischemia. *Drug Development Research* **8**, 407-416.
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57. Nevelsteen, A., D'Hallewin, M.A., Deleersnijder, J., Wouters, L., Suy, R. (1986). Pontages femoro-poplites bas et femoro-jambiers utilisant la veine ombilicale humaine: une experience de huit annees. *Annales de Chirurgie Vasculaire* **1**, 328-334.
58. Sergeant, P., Wouters, L., Dekeyser, L., Flameng, W., Suy, R. (1986). Is the outcome of coronary artery bypass graft surgery predictable in patients with severe ventricular function impairment? *Journal of Cardiovascular Surgery* **27**, 618-621.
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60. Vandeplassche, G., Wouters, L., Hermans, C., Xhonneux, R., Borgers, M., Flameng, W. (1986). An efficient method to evaluate protective drugs against regional ischemia of the heart. *Drug Development Research* **8**, 417-424.
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62. De Coster, R., Beerens, D., Haelterman, C., Wouters, L. (1985). Effects of etomidate on cortisol biosynthesis in isolated guinea-pig adrenal cells: comparison with metyrapone. *Journal of Endocrinological Investigation* **8**, 199-202.
63. Van De Water, A., Wouters, L., Xhonneux, R., Reneman, R.S. (1985). Cardiovascular effects of ketanserin in closed-chest anesthetized dogs. *Archives Internationales de Pharmacodynamie et de Therapie* **275**, 267-278.
64. Flameng, W., Wouters, L., Sergeant, P., Lewi, P., Borgers, M., Thoné, F., Suy, R. (1984). Multivariate analysis of angiographic, histologic, and electrocardiographic data in patients with coronary heart disease. *Circulation* **70**, 7-17.

65. Flameng, W., Xhonneux, R., Van Belle, H., Borgers, M., Van De Water, A., Wouters, L., Wijnants, J., Thoné, F., Van Daele P., Janssen P.A. (1984). Cardioprotective effects of mioflazine during 1 h normothermic global ischaemia in the canine heart. *Cardiovascular Research* **18**, 528-537.
66. Kubo K., Van De Water, A., Wouters, L., Xhonneux, R., Reneman, R.S., (1984). Cardiac and haemodynamic effects of intravenous administrations of flunarizine in closed-chest anaesthetized mongrel dogs. *Arzneimittel-Forschung* **34**, 434-439.
67. Verheyen, A., Vlamincx, E., Lauwers, F., Van Den Broeck, C., Wouters, L. (1984). Serotonin-induced blood flow changes in the rat hindlegs after unilateral ligation of the femoral artery. Inhibition by the S2 receptor antagonist ketanserin. *Archives Internationales de Pharmacodynamie et de Therapie* **270**, 280-298.
68. De Clerck, F., Van Gorp, L., Xhonneux, B., Somers, Y., Wouters, L. (1982). Enhanced platelet turnover and prostaglandin production in spontaneously hypertensive rats. *Thrombosis Research* **27**, 243-249.
69. De Castro J., Van De Water A., Wouters L., Xhonneux R., Reneman R., Kay B. (1979). Comparative study of cardiovascular, neurological and metabolic side effects of 8 narcotics in dogs. Pethidine, piritramide, morphine, phenoperidine, fentanyl, R 39 209, sufentanil, R 34 995. I. Comparative study on the acute toxicity and hemodynamic effects of the narcotics in high and massive doses in curarised and mechanically ventilated dog. *Acta Anaesthesiologica Belgica* **30**, 5-54.
70. De Castro J., Van De Water A., Wouters L., Xhonneux R., Reneman R., Kay B. (1979). Comparative study of cardiovascular, neurological and metabolic side effects of 8 narcotics in dogs. Pethidine, piritramide, morphine, phenoperidine, fentanyl, R 39 209, sufentanil, R 34 995. II. Comparative study on the epileptoid activity of the narcotics used in high and massive doses in curarised and mechanically ventilated dogs. *Acta Anaesthesiologica Belgica* **30**, 55-69
71. De Castro J., Van De Water A., Wouters L., Xhonneux R., Reneman R., Kay B (1979). Comparative study of cardiovascular, neurological and metabolic side effects of 8 narcotics in dogs. Pethidine, piritramide, morphine, phenoperidine, fentanyl, R 39 209, sufentanil, R 34 995. III. Comparative study of the acute metabolic toxicity of the narcotics used in high and massive doses in curarised and mechanically ventilated dogs. *Acta Anaesthesiologica Belgica*. **30**, 71-90.
72. Wouters L (1979). An APL function for computing distribution-free confidence limits on the median of a population. *Behavior Research Method & Instrumentation* **11(3)**, 401.
73. Wellens D, Wouters L, Reneman RS (1977). Aspects comparatifs de la distribution du flux sanguin dans la circulation cerebrale chez le rat, le chat et le chien. *Journal de Physiologie* **73**, A12-A13.
74. Wellens D, Wouters L, Stijnen L, Reneman RS (1977). Anatomical and pharmacological characteristics of the cerebral circulation in dogs, cats and rats: contribution of the radioactive microsphere method. *Bibliotheca Anatomica* **15 Pt 1**, 82-86.
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PRESENTATIONS AND POSTERS

1. Dubois D, Kerstens R, Vandeplassche L, Wouters L. (2009). Predictors for response to Prucalopride in patients with chronic constipation. ISPOR International Society for Pharmacoeconomics and Outcomes Research. 12th Annual European Congress, Paris, France,
2. Lewi, PJ, Wouters, L, Bijmens, L., Verbeeck, R., , Goehlmann, H.O (2007). Spectral map analysis/weighted log-ratio analysis of DNA mi croarray data. CARME - Correspondence Analysis and Related Methods. Rotterdam, Netherlands
3. Cools, M., Pavez Lorié, E., Borgers, M., Cauwenbergh, G., Vandeplassche, L., Wouters, L., Törma H, Vahlquist A. (2006). Effect of topical R115866 (Rambazole) gel on the expression of biomarkers in the skin of healthy volunteers. SID, Philadelphia
4. Faergemann J, Ausma J, Wouters L, Borgers M (2006). An open label trial to evaluate the effect of oral treatment with R126638 in Pityriasis Versicolor. Isham, Paris, France.
5. Decroix J, Ausma J, Wouters L, Borgers M, Vandeplassche L. (2006). Open label phase Iia trials to evaluate the effects of short term oral pramiconazole in tinea pedis and tinea cruris/corporis. Isham, Paris, France.
6. Wouters, L. (2005). Exploring Multivariate Methods in the World of Microarrays.. Three Country Corner Royal Statistical Society, Beerse, Belgium
7. Wouters, L., Vandenbroek, P., Molenberghs, G., Bijmens, L. (2005). Teaching statistical thinking to life s0cientists - a case-based approach.. 13th annual meeting of the Belgian Statistical Society. Oud-Turnhout, Belgium

8. Boersma, I., Beetens, J., Wouters, L., Borgers, M., Cauwenbergh, G. (2005). Topical Oxatomide Cream relieves itch in patients with atopic eczema. European Academy of Dermatology and Venerology, London, UK
9. Faergemann J, Ausma J, Wouters L, Vandeplassche L, Borgers M (2005). An open label phase Iia trial to evaluate the efficacy of oral treatment with pramiconazole in pityriasis versicolor European Academy of Dermatology and Venerology, London, UK
10. Ausma J, Wouters L, Vandeplassche L, Borgers M, Decroix J (2005). Effect of a new azole R126638 in Tinea Pedis, Pilot trial of a 3 or 5 days treatment
11. Piérard G, Piérard-Franchimont C, Henry F, Vroome V, Wouters L, Vandeplassche L, Borgers M, Ausma J. (2005). The Activity of R126638, a New Triazole Antifungal, as Assessed by Corneofungimetry. AAD, New Orleans
12. Piérard G, Henry F, Piérard-Franchimont C, Vroome V, Wouters L, Vandeplassche L, Borgers M, Ausma J. (2005). Effect of a Single Dose of R126638, a New Triazole Antifungal, in Seborrheic Dermatitis. AAD, New Orleans.
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16. Straetemans, R., O'Brien, T., Bijmens, L., Wouters, L., Van Dun, J. (2004). Design and analysis of drug combination experiments. DIA 4th International Workshop on Statistical Methodology in Non-Clinical R&D, Dublin, Ireland
17. Stoppie, P., Van Wauwe, J., Wouters, L., Borgers, M. (2004). Rambazole™, a potent inhibitor of all-trans retinoic acid metabolism, applied topically to mouse tail skin exerts retinoid mimetic activity. SID. Providence
18. Vandeplassche, G., Beger, B., Wouters, L., Verfaille, C., Snoeck, E, Cauwenbergh, G. (2004). Safety of oral liarozole in patients with ichthyosis or psoriasis. European Academy of Dermatology and Venerology, Florence, Italy
19. Wouters, L., Bijmens, L., Molenberghs, Lewi, P.J. (2003). Visualizing Gene Expression Data by Spectral Map Analysis. Theme Conference of the Royal Statistical Society on Statistical Genetics and Bioinformatics, Diepenbeek, Belgium
20. Bijmens, L., Lewi, P., Goehlmann, H., Molenberghs, G., Wouters, L. (2003). Spectral Map Analysis – A method to Analyze Gene Expression Data. Joint Statistical Meeting of the American Statistical Association, The International Biometric Society, the Institute of Mathematical Statistics, and the Statistical Society of Canada. San Francisco, California

21. Wouters, L., Van Dun, J., Bijmens, L. (2003). The Search for Synergism: A Data Analytic Approach. Three Country Corner Royal Statistical Society, Beerse, Belgium
22. Göhlmann, H.W., Wouters, L., Bijmens, L., Molenberghs, G., Lewi, P.J. (2002). Weighted spectral map analysis for QC as well as identifying genes of interest. Center for Human and Clinical Genetics, Leiden University Medical Center, The Netherlands
23. Bijmens, L., Wouters, L., Göhlmann, H.W., Molenberghs, G., Lewi, P.J. (2002). Multivariate Exploration of Microarray Data Belgische Vereniging voor Statistiek, Kerkrade, The Netherlands
24. Wouters, L., Göhlmann, H., Bijmens, L., Lewi, P. (2002). Graphical Exploration of Gene Expression Data by Spectral Map Analysis. DIA 3rd International Workshop on Statistical Methodology in Non-Clinical R&D, Barcelona, Spain
25. Bijmens, L., Wouters, L., Vandenbroeck, P. (2002). Smart Research Design. A Workshop on Design of Experiments. Science Day, J&J PRD, Beerse, Belgium
26. Bijmens, L., Wouters, L., Göhlmann, H.W., Lewi, P.J. (2002). Multivariate Exploration of Microarray Data. Science Day, J&J PRD, Beerse, Belgium
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28. Wouters, L. (2002). XANTIPE. Exact Analysis of Treatment Effects in Parallel Experiments. J&J PRD, Beerse, Belgium
29. Wouters, L. (2001). The Statistics of Microarray Experiments. Workgroup on Bioinformatics. Limburgs Universitair Centrum, transnationale Universiteit Limburg, Diepenbeek, Belgium
30. Wouters, L. (2001). Interim Report on the FuturCare Project. A Multicenter Study on the Use of Modern Antipsychotics in Schizophrenia. FuturCare Project Team, Brussels, Belgium
31. Verbeeck, R., Keersmaekers, R., Wouters, L., Engels, M. (2001). Mining pharmacological databases: a fuzzy matching method for profile searches. 2nd Joint Sheffield Conference on Chemoinformatics: Computational Tools for Lead Discovery. Sheffield, UK
32. Engels, M., Wouters, L., Verbeeck, R., Vanhoof, G. (2000). Detecting outliers in pharmaceutical screening experiments. Janssen Discovery Research First Discovery Day. Janssen Research Foundation, Beerse, Belgium
33. Van Deuren, B., Wouters, L., van Rossem, K., Van Reempts, J. (2000). A rat closed head injury model for screening of compounds that reduce intracranial pressure. Janssen Discovery Research First Discovery Day. Janssen Research Foundation, Beerse, Belgium
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37. Ausma, D., Duimel, H., Wouters L., Allessie, M.A., Borgers M. (1999). Structural atrial remodeling in the goat by 16 weeks of atrial fibrillation is not reversed 8 weeks after cardioversion. American Heart Association's 72nd Scientific Sessions, Atlanta, Georgia. *Circulation* 100 (Supplement S), 51.
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39. Wouters, L. (1999) Synergism - The Combined Action of Drugs. Oncology Department, Janssen Research Foundation, Beerse, Belgium
40. Wouters, L. (1999). S-Plus a Tool for Statistical Computing and Data Mining. Janssen Research Foundation, Beerse, Belgium
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44. Wouters, L. (1995). Estimating treatment effects. Life Sciences Dept., Janssen Research Foundation, Beerse, Belgium
45. Borgers, M., Thone, F., Wouters, L., Shivalkar, B., Flameng, W. (1992). Morphology of hibernating myocardium in man. *Journal of Molecular and Cellular Cardiology* **24** (Supplement 5), S64.
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49. Verdonck, L., Wouters, L., Olbrich, H.G., Borgers, M. (1990). Nebivolol increases survival of the cardiomyopathic hamster with severe congestive heart-failure. *Circulation* **82** (Supplement S): 274
50. Wouters, L.(1989) Exploring experimental data: concepts, demonstrations. 2nd JRF Workshop on Computing & Automation. Janssen Research Foundation, Beerse, Belgium
51. Wouters, L., Vermeiren, M. (1987). Automating the pharmacological test: current thinking, guidelines, and examples. Part II. The Myocyte test. 1st JRF Workshop on Computing & Automation. Janssen Research Foundation, Beerse, Belgium.
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53. Verheyen, A., Lauwers, F., Vlaminckx, E., Wouters, L., De Clerck, F. (1986). Supersensitivity of peripheral collateral blood vessels to serotonin in *in situ* perfused rat hindlegs. 14th International Conference of European Society for Microcirculation, Linköping, Sweden. *International Journal of Microcirculation* **5**, 218
54. Wouters, L. (1986). Data processing in a research department. The use of computers in the assessment of antihypertensive drugs. Visit IBM representatives, Janssen Pharmaceutica, Beerse, Belgium
55. Sergeant, P., Wouters, L., Flameng, W., Dekeyser, L., Suy, R. (1985). Preoperative predictability of the late clinical outcome after CABG in patients with severe ventricular dysfunction. Proceedings of the British Cardiac Society. *British Heart Journal* **53**, 73
56. Verheyen, A., Vlaminckx, E., Lauwers, F., Wouters, L. (1985): Radioactive colloidal gold as a tool to quantify extravasation of macromolecules in the rat cremaster muscle. Symposium: Opname en transport van macromoleculen. Wageningen, The Netherlands.
57. Wouters, L., Lewi, P. (1984). Multivariate analyse van farmacologische gegevens. Een Spectramap toepassing. Janssen Research Foundation, Beerse, Belgium
58. Wellens, D.L.F., Wouters, L.J.M.R., Stylen, L., Reneman, R.S. (1976). Anatomical and pharmacological characteristics of the cerebral circulation in dogs, cats and rats. Contribution of the radioactive microsphere method. International Symposium on the Radioactive Microsphere Method. Janssen Pharmaceutica, Beerse, Belgium

LECTURED COURSES

1. Wouters, L. (2002). S-Plus Tips & Tricks. J&JPRD, Department of Biometrics, Beerse, Belgium

2. Wouters, L. (2000-2001). Illustrations of Laboratory Experiments. Short Course on Experimental Study Design. School of Veterinary Medicine, Ghent University, Merelbeke, Belgium
3. Wouters, L. (2000-2001). Principles of Laboratory Experiments. Short Course on Experimental Study Design. School of Veterinary Medicine, Ghent University, Merelbeke, Belgium
4. Wouters, L. (1999-2002). Gegevensverwerking, menselijke en machinale fouten ,weergeven van resultaten, statistische begrippen. Cursus Proefdierkunde voor Dierentechnici. Janssen Research Foundation, Beerse, Belgium
5. Wouters, L. (1998). Technieken in de Biostatistiek, JMP – StatXact Practicum, 2de Editie, Janssen Research Foundation, Beerse, Belgium
6. Wouters, L. (1997-2003). Het Plannen van Experimenten, Syllabus. 1st licentie Biomedische Wetenschappen. V.U.B., Brussels, Belgium
7. Wouters, L. (1996). Technieken in de Biostatistiek, JMP – StatXact Practicum, 1^{ste} Editie, Janssen Research Foundation, Beerse, Belgium

THESIS – ACADEMIC PROJECTS

1. Wouters, L. (1997). *Nonlinear Modeling Applications in Experimental Pharmacology*. MSc Thesis, L.U.C., Diepenbeek, Belgium.
2. Wouters, L. (1977). Automatische Gegevensverwerking bij het Screenen van Antihypertensiva. Seminariewerk Informatica-Programmering. Hoger Rijksinstituut voor Technisch Onderwijs. Turnhout, Belgium
3. Wouters, L. (1970). Ftalocyanine verbindingen. Seminariewerk Graduaat in de Scheikunde. Hoger Rijksinstituut voor Technisch Onderwijs. Turnhout, Belgium

TECHNICAL REPORTS

1. Wouters, L. (2001). Repeated measures ANOVA in JMP 3.2.6 .Technical report, Janssen Research Foundation, Beerse, Belgium
2. Wouters, L., Bijmens, L., De Ridder, F., Molenberghs, G. (2001). Statistical quality of preclinical research reports at JRF. A critical assessment. Technical report , Janssen Research Foundation, Beerse, Belgium
3. Wouters, L. (2000). Statistical analysis of forced swimming test and tail suspension test. Technical report, Janssen Research Foundation, Beerse, Belgium
4. Wouters, L. (2000). CAVASTAT: Statistical analysis of cardiovascular drug safety data. Technical report, Janssen Research Foundation, Beerse, Belgium
5. Wouters, L. (1999). JRFSH: a library of S-Plus functions for statistical analysis at JRF Spring House. Technical report, Janssen Research Foundation, Beerse, Belgium
6. Wouters, L. (1999). Guidelines for statistical analysis and reporting in biological discovery research. Technical report, Janssen Research Foundation, Beerse, Belgium

7. Roevens, P., Borghijs, H., Meerpoel, L., Heeres, J., Fraiponts, E., Heylen, A., Gabriels, L., Wouters, L., Vermeulen, P., de Chaffoy de Courcelles, D. (1998). Hypolipidaemic effects of R103757, a potent stereospecific inhibitor of microsomal triglyceride transfer protein. Non-Clinical Research Report, Janssen Research Foundation, Beerse, Belgium
8. Wouters, L. (1998). DRC.Fit: An S-Plus suite of functions for analyzing receptor binding studies. Technical report, Janssen Research Foundation, Beerse, Belgium
9. Stoppie, P., Borghgraef, P., Jonckers, K., Tas, E., Szel, H., Wouters, L., Van Wauwe, J., Van Nyen, G., Borgers, M. (1997). *In vivo* retinoid-mimetic activity of R115866. Part V. Effects of keratinization of murine tail epidermis after topical application. Non-Clinical Research Report, Janssen Research Foundation, Beerse, Belgium
10. Wouters, L. (1997). Stroke induced increase in rat intracranial pressure (STRIP) Statistical considerations in the design of a drug screening procedure. Technical report, Janssen Research Foundation, Beerse, Belgium
11. Dillen, L., Goossens, J., Cools, W., Van Hove, C., Van Ginckel, R., Wouters, L., Van Wauwe, J. (1996). Effects of LIAZAL and its enantiomers on retinoic acid plasma and tissue levels in tumor-bearing rats. *Preclinical Research Report*. Janssen Research Foundation, Beerse, Belgium
12. Haseldonckx, M., Van Reempts, J., Borgers, M., Scheller, D., Wouters, L. (1996). Lubeluzole improves ischaemic and postischaemic cortical blood flow in rabbits subjected to global incomplete brain ischemia. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
13. Haseldonckx, M., Van de Ven, M., Wouters, L., Van Reempts, J., Borgers, M. (1995). Quantitative morphological evaluation of the cerebroprotective effects of lubeluzole after global incomplete ischaemia in the rat. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
14. Smets, G., Bruwiere, H., Wouters, L., Janssens, F.E., Van Den Kieboom, G., Daneels, G., Jansen, T., Borgers, M. (1995). Anti-allergic profile of R089674 in a model of acute- and late-phase allergic conjunctivitis in the guinea-pig. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
15. Van Reempts, J., Haseldonckx, M., Wouters, L., Scheller, D., Borgers, M., Van Belle, H. (1994). Protective effects of draflazine in rabbits subjected to global incomplete brain ischemia. Preclinical Research Report. Janssen Research Foundation, Beerse, Belgium
16. Nuydens, R., de Jong, M., Nuyens, R., Cornelissen, F., Wouters, L., Geerts, H. (1993). Sabeluzole attenuates cytotoxicity in an Alzheimer model characterised by antigenic expression of aberrantly phosphorylated tau. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
17. Marien, R., Wouters, L., De Clerck, F. (1992). Electrophysiological effects of risperidone in vitro. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
18. Beetens, J., Van Ammel, K., Van de Wiele, R., De Clerck, F., Weber, C., Tegtmeier, F., Van Rooy, P., Vercammen, E., Wouters, L. (1992). Phase I trial: dose finding study on the effect of ridogrel on serum and urinary prostanoids in healthy volunteers. Part III: urinary and serum prostanoids. Clinical Research Report. Janssen Research Foundation, Beerse, Belgium
19. D'Aubioul, J., Van Gerven, W., Wouters, L., Xhonneux, R. (1991). The effects of R85796 on cardiovascular and behavioural parameters in instrumented, awake dogs: dose 2.5 mg.kg⁻¹ orally. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium

20. Jansen, T., Szel, H., Wouters, L., Borgers, M. (1991). Levocabastine 0.5 mg/ml ophthalmic suspension versus levocabastine 0.5 mg/ml preservative-free ophthalmic solution: an evaluation in animals of the acute ocular tolerance and of the efficacy in histamine-induced conjunctivitis. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
21. Wouters, L. (1991). CVSGSR: Cardiovascular System, Generation of Statistical Reports. A SAS/VAX program. Technical report, Janssen Research Foundation, Beerse, Belgium
22. Van Reempts, J., Van Deuren, B., Wouters, L., Borgers, M., De Clerck, F. (1990). Effects of ridogrel and ketanserin on infarct size after photothrombotic stroke in rats. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
23. D'Aubioul, J., Van Gerven, W., Wouters, L., Xhonneux, R. (1989). Cardiovascular and behavioural effects of R64766 (0.08 mg.kg⁻¹, orally) in conscious dogs, chronically medicated with the compound. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
24. Jansen, T., Wouters, L. (1989). The effect of a single ocular instillation of a ketanserin (1.0, 0.5 and 0.1 %) solution and suspension on the intraocular pressure of normotensive albino rabbits. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
25. D'Aubioul, J., Van Gerven, W., Wouters, L., Xhonneux, R. (1988). Cardiovascular and behavioural effects of R79598 (0.04 mg.kg⁻¹, orally) in conscious dogs. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
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27. D'Aubioul, J., Van Gerven, W., Wouters, L., Xhonneux, R. (1988). The effects of R49469 (2.5 mg.kg⁻¹, intravenously) on ECG, heart rate and behaviour in conscious dogs. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
28. D'Aubioul, J., Van Gerven, W., Wouters, L., Xhonneux, R. (1988). The effects of R66899 (2.5 mg.kg⁻¹, intravenously) on ECG, heart rate and behaviour in conscious dogs. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
29. D'Aubioul, J., Van Gerven, W., Wouters, L., Xhonneux, R. (1988). Cardiovascular, and behavioural effects of R66905 (250 mg, orally) in conscious dogs. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
30. D'Aubioul, J., Van Gerven, W., Wouters, L., Xhonneux, R. (1988). Effects of cumulative intravenous injections of astemizole (R43512) on carotid blood flow, femoral blood flow, blood pressure, heart rate, and pressure rate product in closed-chest anaesthetized dogs. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
31. D'Aubioul, J., Van Gerven, W., Wouters, L., Xhonneux, R. (1988). The effects of R70076 (2.5 mg.kg⁻¹, intravenously) on ECG, heart rate and behaviour in conscious dogs. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
32. De Coster, R., Van Cauteren, H., Wouters, L. (1988). Effects of a single administration of cisapride and metoclopramide on serum prolactin in female rats. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
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38. D'Aubioul, J., Van Gerven, W., Wouters, L., Xhonneux, R. (1987). Cardiovascular, and behavioural effects of R74774 (0.63 mg.kg⁻¹, intravenously) in conscious dogs. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
39. D'Aubioul, J., Van Gerven, W., Wouters, L., Xhonneux, R. (1987). The effects of R74774 (0.63 mg.kg⁻¹, intravenously) on ECG, heart rate and behaviour in conscious dogs. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
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41. D'Aubioul, J., Van Gerven, W., Wouters, L., Xhonneux, R. (1987). The effects of R70380 (0.31 mg.kg⁻¹, orally) on coronary blood flow, blood pressure, heart rate, ECG, and behaviour in conscious dogs. Preclinical Research Report, Janssen Research Foundation, Beerse, Belgium
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189. Wouters, L., Bruyneel, K., Marsboom, R. (1978). Comparative study of heart and body weight in baboons, mongrel and beagle dogs. Janssen Research Foundation, Beerse, Belgium
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201. Wouters, L., Verheyen, J., Snoeckx, L. (1975). RSA: an interactive program for parametric and nonparametric analysis of related samples. Technical Report, Janssen Research Foundation, Beerse, Belgium

NOTEWORTHY COURSES

- Workshop on Multivariate Analysis, 3CC Royal Statistical Society, Beerse, Belgium
- Training on Adverse Event & Complaint Handling by V. Vroome & K. van Rossem, November 9, 2005, Geel, Belgium
- DIA Workshop on statistical methodology in clinical and nonclinical R&D, October 26-28, 2005, Nice, France
- Course on Bayesian Statistics by Prof. E. Lesaffre (30 h) Center for Statistics, Limburgs Universitair Centrum, April-June 2004
- DIA 4th Workshop on statistical methodology in non-clinical R&D, April 22-23, 2004, Dublin, Ireland
- DIA 15th Workshop on statistical methodology in clinical R&D, April 19-21, 2004, Dublin, Ireland
- DIA 14th Workshop on statistical methodology in clinical R&D, April 7-9, 2003, Paris, France
- Course Introduction to Monitoring Clinical Trials in accordance with ICH-GCP Guidelines, by Healthcare Interim, Barrier Therapeutics, Geel, December, 2003.
- Course on Drug Synergism by T. O'Brien (30 h). Center for Statistics, Limburgs Universitair Centrum, April-June 2003
- DIA 3rd Workshop on statistical methodology in non-clinical R&D, September 26-27, 2002, Barcelona, Spain
- Course on Non-linear Mixed Models in Pharmaceutical Research by F. Dominici, L. Choi, K-Y. Liang and S. Zeger, J&J PRD, July 24, 2002.
- Course on repeated categorical data by G. Molenberghs, Global Biometrics Dept., JRF-PRI October-November, 2001 (16 hours).
- Introduction to PROVANTIS (InStem), JRF Toxicology Dept., July 2001
- DIA 2nd Workshop on statistical methodology in non-clinical R&D, September 14-15, 2000, Montreux, Switzerland
- Course on communicating numerical data by P. Vandebroek, J-L Doumont, Epiphany, April 19-20, Turnhout, Belgium
- Crash course S-Plus, by L. Lam, CAN-diensten, Amsterdam, May 5, 2000, Janssen Pharmaceutica, Beerse, Belgium
- Workshop on statistical inference, with short a course on bootstrapping by Prof. A.C. Davison Swiss Federal Institute of Lausanne Switzerland, April 10-12 2000, L.U.C., Belgium
- Course on data mining using SAS/Enterprise Miner by K. Knapen, SAS Institute, February 16-17, Janssen Pharmaceutica, Beerse, Belgium
- Course on WIN/NT4 Workstation Technicals, February 1, 2000, Janssen Pharmaceutica, Beerse, Belgium
- Course Introduction to S-Plus by Prof. M. Aerts & Prof. G. Molenberghs, 1999, Janssen Pharmaceutica, Beerse, Belgium (2 days)
- Course on nonparametric smoothing and lack-of-fit tests by Prof. J.D. Hart of the Texas A&M University, U.S.A., at the L.U.C. (30 h, 4-6/98)
- Course on S-Plus: modelling and advanced programming by Prof. W. Venables of the University of Adelaide, Australia, November 19-21, 1997, Oxford, U.K.
- Course on Repeated Measures and Longitudinal Data by Prof. P. Janssen and Prof. G. Molenberghs, L.U.C. at Janssen Research Foundation, Beerse, Belgium (12 h, 1/97 – 4/97).
- Biostatistics programme at the Limburgs Universitair Centrum (L.U.C.) (1/90 - 1/97) :
 - Statistical inference (60 h) by Prof. N. Veraverbeke, L.U.C.
 - Regression (60 h) by Prof. P. Janssen, L.U.C.

- Analysis of Variance (30 h) by Prof. P. Janssen L.U.C.
- Nonparametrics (30 h) by Prof. H. Callaert, L.U.C.
- Generalized linear models (30 h) by Prof. J. Lindsey, Université de Liège, Belgium.
- Multivariate analysis (60 h) by Prof. E. Lesaffre, Katholieke Universiteit Leuven, Belgium.
- Discrete data analysis (30 h) by Prof J. Hochberg, University of Tel Aviv, Israel.
- Epidemiology (30 h) by Prof. D. Clayton, Cambridge University, U.K.
- Survival analysis (60 h) by Prof T. Fleming, University of Washington, U.S.A..
- Longitudinal data analysis (30 h) by Prof. G. Molenberghs, L.U.C.
- Topics in Clinical Trials (30 h) by Prof. E. Goetghebeur, University of Maastricht, The Netherlands
- Design of experiments (30 h) by Prof. P. Van Der Laan, Eindhoven University of Technology, The Netherlands
- Clinical trials (60 h) by Prof. M. Buyse and Prof. R. Sylvester, E.O.R.T.C., Belgium.
- Resampling techniques (30 h) by Prof. J. Swanepoel, University of Postchefstroom, South Africa
- Computerintensive methods (30 h) by Prof. W. Härdle, CORE Université Catholique de Louvain, Belgium
- Project (450 h) : Nonlinear Modeling Applications in Experimental Pharmacology (finished 1/97) directed by Prof. P. Janssen
- Course on multivariate dependencies and graphical Markov models by Prof. D. Cox and Prof. N. Wermuth, June 30, 1996, Amsterdam, The Netherlands
- Course on exact methods for contingency tables and logistic regression by C.R. Mehta, June 9, 1995, Hasselt, Belgium
- Workshop on mixed models, November 24, 1994, L.U.C., Hasselt, Belgium
- Course on Longitudinal Data Analysis by Prof. N. Lange, of Brown University, U.S.A., at the L.U.C. (30 h 4-6/93)
- Course on data visualization with SAS/INSIGHT software, G. Heldt, SAS Institute, May 18-19, 1992, Vienna, Austria
- Course on presentation techniques, by De Witte, Morel en Musschoot, May 1991, Janssen Pharmaceutica, Beerse, Belgium
- European Spring School in Chemometrics, University of Bristol, April 10-15, 1988, Bristol, U.K.
- Course on ORACLE – SQL*Calc, Pandata, February 11, 1988, Janssen Pharmaceutica, Beerse, Belgium (1 day).
- Course on SQL, Pandata, September 1987, Janssen Pharmaceutica, Beerse, Belgium (4 days).
- Course on ORACLE – SQL*Forms (VAX), ORACLE, March 1987, Janssen Pharmaceutica, Beerse, Belgium (3 days).
- Course on information engineering, James Martin Associates, 1986, Janssen Pharmaceutica, Beerse, Belgium (1 day)
- Course on SAS ANOVA and Regression by G. Heldt, SAS Institute, December 1984, Heidelberg, Germany, (3 days)
- Course SAS Macro language, P. Winters, SAS Institute, 1984, Janssen Pharmaceutica, Beerse, Belgium (2 days).
- Course APL-2, by Belgian APL-CAM Users Society and Genootschap Toegepaste Wiskunde & Informatieverwerking, November 23, 1983, Brussels, Belgium
- Course on SAS Basics by P. Winters, SAS Institute, November 1983, Amsterdam, The Netherlands (3 days)
- Computer programmer and analyst at the Hoger Rijksinstituut voor Technisch Onderwijs, Turnhout, Belgium (9/75-6/77 ; 810 h).
- Course on Physiology, 1976, Janssen Pharmaceutica, Beerse, Belgium (5 days).
- Course on Medical Electronics, 1975, Janssen Pharmaceutica, Beerse, Belgium (3 days)

- Course on histology and microscopical anatomy, 1974, Janssen Pharmaceutica, Beerse, Belgium (5 days)