Onderzoeksprogramma Gevaarlijke Stoffen en Arbeidsveiligheid

Wetenschappelijke publicaties 2008

REACH

1. Van Leeuwen, C.J., T. Schultz, T. Henry, G. Veith and B. Diderich (2008). Using chemical categories and QSAR to fill data gaps in hazard assessment. *Environ Sci Pollut Res* (in press).
2. Schaafsma, G., Kroese, E.D., Tielemans, E.L.J.P., Van de Sandt, J.J.M., Van Leeuwen, C.J. (2009). REACH, non-testing approaches and the urgent need for a change in mind set. Regulatory Toxicology and Pharmacology 53, 70-80.

Hazard assessment en alternatieven voor dierproeven

3. Breier, JM, De Groot, D, Fritsche, E, Gassmann, K, Kayser, R, Stegeman, H, Shafer, TJ, (2008) Neural Progenitor Cells as Models for High-Throughput Screens of Developmental Neurotoxicity: State of the Science. Neuroteratology and Toxicology, submitted.
4. Kuper, CF, Stierum, RH, Boorsma, A, Schijf, MA, Prinsen, M, Bruijntjes, JP, Bloksma, N, Arts, JHE, 2008, The contact allergen dinitrochlorobenzene (DNCB) and respiratory allergy in the Th2-prone Brown Norway rat. *Toxicology* 246, 213-221
5. Arts, JHE, M.A. Schijf, F. Kuper, Pre-exposure to amorphous silica particles attenuates but also enhances allergic reactions in trimellitic anhydride-sensitized Brown Norway rats, *Toxicology* (in press).
6. J.H.E. Arts, M.A. Schijf, N. Bloksma, C.F. Kuper. Pre-exposure to amorphous silica particles attenuates but also enhances allergic reactions in trimellitic anhydride-sensitized Brown Norway rats. Inhal. Toxicol. 20, 935-948.
7. Arts, JHE, de Jong, WH, van Loveren, H and Kuper, CF (2008) Application of the local lymph node assay (LLNA) for respiratory sensitisers. In: van Loveren H, Cockshott A, Gebel T, Gundert-Remy U, de Jong WH, Matheson J, McGarry H, Musset L, Selgrade MJ, Vickers C (eds) Skin sensitisation in chemical risk assessment: Report of a WHO/IPCS international workshop focusing on dose-response assessment. *Regul. Toxicol. Pharmacol*. 50, 166-167.
8. Arts, JHE, van Triel, J, De Jong, W, Van Loveren, H, Kuper, CF (2008) The respiratory local lymph node assay as a tool to study respiratory sensitisers. Toxicol Sci. 106, 423-34.
9. Kuper, CF, Harleman, H, Schuurman H-J. Lymphoid tissue architecture and pathological influences of toxicants. In Lawrence DA (ed) Toxicology of the Immune System, Vol 5 of *Comprehensive Toxicology series. Pergamon* (in press).
10. Arts, JHE, Hans Muijser, Frieke C. Kuper and Ruud A. Woutersen. Setting an indoor air exposure limit for formaldehyde: factors of concern. Env. Health Persp. (in press).
11. Kuper CF, WHM Heijne, M Dansen, KCM Verhoeckx, A Boorsma, M Radonjic, JP Bruijntjes, R Stierum, H Muijser, JHE Arts (2008) Molecular characterization of trimellitic anhydride-induced respiratory allergy in Brown Norway rats. *Toxicologic Pathology* 36, 985-998.
12. Kuper, CF, Stierum, R, Boorsma, A, Schijf, MA, Prinsen, M, Bruijntjes, JP, Bloksma, N, Arts, JHE. (2008)The contact allergen dinitrochlorobenzene (DNCB) and respiratory allergy in the Th2-prone Brown Norway rat Toxicology 246, 213-21.
13. Bouwman, T, Cronin, MTD, Bessems, JGM, Van de Sandt, JJM (2008). Improving the applicability of (Q)SARs for percutaneous penetration in regulatory risk assessment. Human and Experimental Toxicology 27, 269-276.

14. Bottini AA, Alepee N, Phillips B, Gribaldo L, De Silva O, Hartung T, Hendriksen C, Kuil J, Pazos P, Rhein C, Schiffelers MJ, Stokes W, Theobald A, Vidal JM, Van de Sandt H, Breier S, Sintes JR, Blaauboer B. (2008). Optimisation of the post-validation process: the report and recommendations of ECVAM Workshop 67. Altern Lab Anim. 36:353-366.
15. Loizou, GD, Spendiff, M, Barton, HA, Bessems, J, Bois, FY, Bouvier, d Y, Buist, H, Clewell III, H, Gundert-Remy, U, Goerlitz, G, Meek, B, and Schmitt, W (2008). Development of Good Modelling Practice for Physiologically Based Pharmacokinetic Models for Use in Risk Assessment: The First Steps. *Regulatory Toxicology and Pharmacology* 50, 400-411.
16. Arts, JHE, Jacobs, E, Bloksma, N, Kuper, F. Pre-exposure to sulfur dioxide attenuates most allergic reactions upon trimellitic anhydride challenge in sensitized Brown Norway rats (submitted)

Arbeidsomstandigheden

16. Schinkel, J, Fransman, W, Noy, D, Heussen, H, Tielemans, E. Accuracy and reliability of the Stoffenmanager exposure algorithm. Occup Environ Med, submitted
17. Van de Ven P, Fransman W, Schinkel J, Rubingh C, Warren N, Tielemans E. Stoffenmanager exposure model: company-specific exposure assessments using Bayesian methodology, submitted
18. Meijster, T, Tielemans, E, Schinkel, J, Heederik, D. (2008). Evaluation of peak exposures in the Dutch flour processing industry: implications for intervention strategies. Ann Occup Hyg 52, 587-96
19. Meijster, T. Tielemans, E, Heederik, D, Warren, N. A dynamic population-based model for the development of work related respiratory health effects amongst bakery workers. Occup Environ Med (in press).
20. Meijster T. Tielemans E, Heederik D, Warren N. A dynamic population-based model for evaluation of workplace interventions. Occup Environ Med, submitted.
21. Tielemans, E, Noy, D, Schinkel, J, Heussen, H, van der Schaaf, D, West, J, Fransman, W. (2008). Stoffenmanager exposure model: development of a quantitative algorithm. Ann Occup Hyg 52, 443-454.
22. Tielemans, E, Schneider, T, Goede, H, Tischer, M, Warren, N, Kromhout, H, van Tongeren, M, van Hemmen, J, Cherrie, JW (2008). Conceptual model for assessment of inhalation exposure: defining modifying factors. Ann Occup Hyg 52, 577-86.
23. Fransman, W, Schinkel, J, Meijster, T, van Hemmen, J, Tielemans, E, Goede, H. (2008). Development and evaluation of an exposure control efficacy library (ECEL). Ann Occup Hyg 52, 567-75.
24. Marquart, H, Heussen, H, le Feber, M, Noy D, Tielemans, E, Schinkel, J, West, J, van der Schaaf, D. Stoffenmanager, a web-based control banding tool using an exposure process model. Ann Occup Hyg 2008, 1-13.
25. Spaan, S, Schinkel, J, Wouters I, Preller, L, Tielemans, E, Tjoe Nij, E, Heederik, D. (2008). Variability in Endotoxin Exposure Levels and Consequences for Exposure Assessment. Ann. Occup Hyg. 52, 303 - 316.
26. Bobeldijk I, Karlsson D, Pronk A, Gonsalves J, Hekman M, Van De Lagemaat D, Preller L, Heederik D, Skarping G. (2008). Validation of transferability of DBA derivatization and LC-MS/MS determination method for isocyanates via an interlaboratory comparison. Ann Occup Hyg. 52, 757-63.
27. Preller L, Balder HF, Tielemans E, van den Brandt PA, Goldbohm RA. (2008). Occupational lung cancer risk among men in the Netherlands. Occup Environ Med. 65, 249-54.
28. A. Pronk, L. Preller, G. Doekes, I.M. Wouters, J. Rooyackers, J.-W. Lammers, D. Heederik. Bronchial hyperresponsiveness and lung function are associated with measured isocyanate exposure in spray painters. Eur. Resp. J. (in press).