

Publications

- Angehrn, P., Buchmann, S., Funk, C., Goetschi, E., Gmuender, H., Hebeisen, P., Kostrewa, D., Link, H., Luebbers, T., Masciadri, R., Nielsen, J., Reindl, P., Ricklin, F., Schmitt-Hoffmann, A. and Theil, F.-P. (2004) 'New antibacterial agents derived from the DNA gyrase inhibitor cyclothialidine', *Journal of medicinal chemistry*, 47(6), pp. 1487–1513. Available at: <https://doi.org/10.1021/jm0310232>.
- Angehrn, P., Goetschi, E., Gmuender, H., Hebeisen, P., Hennig, M., Kuhn, B., Luebbers, T., Reindl, P., Ricklin, F. and Schmitt-Hoffmann, A. (2011) 'A new DNA gyrase inhibitor subclass of the cyclothialidine family based on a bicyclic dilactam-lactone scaffold. Synthesis and antibacterial properties', *Journal of Medicinal Chemistry*, 54(7), pp. 2207–2224. Available at: <https://doi.org/10.1021/jm1014023>.
- Baier, V., Clayton, O., Nudischer, R., Cordes, H., Schneider, A.R.P., Thiel, C., Wittenberger, T., Moritz, W., Blank, L.M., Neumann, U.P., Trautwein, C., Kelm, J., Schroders, Y., Caiment, F., Gmuender, H., Roth, A., Castell, J.V., Kleinjans, J. and Kuepfer, L. (2021) 'A Model-Based Workflow to Benchmark the Clinical Cholestasis Risk of Drugs', *Clinical Pharmacology & Therapeutics*, p. cpt.2406. Available at: <https://doi.org/10.1002/cpt.2406>.
- Bloch, K.M., Yaqoob, N., Evans, A., Radford, R., Jennings, P., Boei, J.J.W.A., McMorrow, T., Slattery, C., Ryan, M.P., Gmuender, H., Delft, J.H.M. van and Lock, E.A. (2012) 'Detection of genotoxic and non-genotoxic renal carcinogens in vitro in NRK-52E cells using a transcriptomics approach', *Toxicology Research*, 1(3), pp. 211–219. Available at: <https://doi.org/10.1039/C2TX20023F>.
- Boehm, H.J., Boehringer, M., Bur, D., Gmuender, H., Huber, W., Klaus, W., Kostrewa, D., Kuehne, H., Luebbers, T., Meunier-Keller, N. and Mueller, F. (2000) 'Novel inhibitors of DNA gyrase: 3D structure based biased needle screening, hit validation by biophysical methods, and 3D guided optimization. A promising alternative to random screening', *Journal of medicinal chemistry*, 43(14), pp. 2664–2674.
- Boei, J.J.W.A., Vermeulen, S., Klein, B., Hiemstra, P.S., Verhoosel, R.M., Jennen, D.G.J., Lahoz, A., Gmuender, H. and Vrielink, H. (2017) 'Xenobiotic metabolism in differentiated human bronchial epithelial cells', *Archives of Toxicology*, 91(5), pp. 2093–2105. Available at: <https://doi.org/10.1007/s00204-016-1868-7>.
- Boitier, E., Amberg, A., Barbié, V., Blichenberg, A., Brandenburg, A., Gmuender, H., Gruhler, A., McCarthy, D., Meyer, K., Riefke, B., Raschke, M., Schoonen, W., Sieber, M., Suter, L., Thomas, C.E. and Sajot, N. (2011) 'A comparative integrated transcript analysis and functional characterization of differential mechanisms for induction of liver hypertrophy in the rat', *Toxicology and applied pharmacology*, 252(2), pp. 85–96. Available at: <https://doi.org/10.1016/j.taap.2011.01.021>.
- Bonfils, D., Gmünder, H., Lehmann, E., Röthlisberger, M. and Gafner, J. (1989) 'Characterisation of an ARS-plasmid stabilisation element in the fission yeast *Schizosaccharomyces pombe*', *Yeast (Chichester, England)*, 5 Spec No, pp. S261–266.
- Brandenburg, A., Gmuender, H. and Wittenberger, T. (2014) 'In Silico Approaches: Data Management - Bioinformatics', in *Predictive Toxicology: From Vision to Reality*. Friedlieb Pfannkuch and Laura Suter-Dick. Wiley-VCH, Verlag GmbH & Co. KGaA (Methods and Principles in Medicinal Chemistry).
- Choi, H., Tabashidze, N., Rossner, P., Dostal, M., Pastorkova, A., Kong, S.W., Gmuender, H. and Sram, R.J. (2017) 'Altered vulnerability to asthma at various levels of ambient Benzo[a]Pyrene by CTLA4, STAT4 and CYP2E1 polymorphisms', *Environmental Pollution (Barking, Essex: 1987)* [Preprint]. Available at: <https://doi.org/10.1016/j.envpol.2017.07.057>.

Cox, J., Gmuender, H., Hohn, A. and Rehrauer, H. (2006) 'Generation and Validation of a Reference System for Toxicogenomics DNA Microarray Experiment', in *Handbook of Toxicogenomics, Strategies and Applications*. Jurgen Borlak. Wiley-VCH, Verlag GmbH & Co. KGaA.

Dip, R., Lenz, S., Antignac, J.-P., Le Bizec, B., Gmuender, H. and Naegeli, H. (2008) 'Global gene expression profiles induced by phytoestrogens in human breast cancer cells', *Endocrine-related cancer*, 15(1), pp. 161–173. Available at: <https://doi.org/10.1677/ERC-07-0252>.

Dip, R., Lenz, S., Gmuender, H. and Naegeli, H. (2009) 'Pleiotropic combinatorial transcriptomes of human breast cancer cells exposed to mixtures of dietary phytoestrogens', *Food and chemical toxicology: an international journal published for the British Industrial Biological Research Association*, 47(4), pp. 787–795. Available at: <https://doi.org/10.1016/j.fct.2009.01.008>.

Doktorova, T., Yildirimman, R., Ceelen, L., Vilardell, M., Vanhaecke, T., Vinken, M., Ates, G., Heymans, A., Gmuender, H., Bort, R., Corvi, R., Phrakonkham, P., Li, R., Mouchet, N., Chesne, C., Van Delft, J., Kleinjans, J., Castell, J., Herwig, R. and Rogiers, V. (2014) 'TESTING CHEMICAL CARCINOGENICITY BY USING A TRANSCRIPTOMICS HEPARG-BASED MODEL', *Experimental and Clinical Sciences International online journal for advances in science*, 13, pp. 623–627.

Doktorova, T.Y., Yildirimman, R., Vinken, M., Vilardell, M., Vanhaecke, T., Gmuender, H., Bort, R., Brolen, G., Holmgren, G., Li, R., Chesne, C., van Delft, J., Kleinjans, J., Castell, J., Björquist, P., Herwig, R. and Rogiers, V. (2013) 'Transcriptomic responses generated by hepatocarcinogens in a battery of liver-based in vitro models', *Carcinogenesis*, 34(6), pp. 1393–1402. Available at: <https://doi.org/10.1093/carcin/bgt054>.

Ellinger-Ziegelbauer, H., Adler, M., Amberg, A., Brandenburg, A., Callanan, J.J., Connor, S., Fountoulakis, M., Gmuender, H., Gruhler, A., Hewitt, P., Hodson, M., Matheis, K.A., McCarthy, D., Raschke, M., Riefke, B., Schmitt, C.S., Sieber, M., Sposny, A., Suter, L., Sweatman, B. and Mally, A. (2011) 'The enhanced value of combining conventional and "omics" analyses in early assessment of drug-induced hepatobiliary injury', *Toxicology and applied pharmacology*, 252(2), pp. 97–111. Available at: <https://doi.org/10.1016/j.taap.2010.09.022>.

Ellinger-Ziegelbauer, H., Gmuender, H., Bandenburg, A. and Ahr, H.J. (2008) 'Prediction of a carcinogenic potential of rat hepatocarcinogens using toxicogenomics analysis of short-term in vivo studies', *Mutation research*, 637(1–2), pp. 23–39. Available at: <https://doi.org/10.1016/j.mrfmmm.2007.06.010>.

Fernández, D., Sram, R.J., Dostal, M., Pastorkova, A., Gmuender, H. and Choi, H. (2018) 'Modeling Unobserved Heterogeneity in Susceptibility to Ambient Benzo[a]pyrene Concentration among Children with Allergic Asthma Using an Unsupervised Learning Algorithm', *International Journal of Environmental Research and Public Health*, 15(1). Available at: <https://doi.org/10.3390/ijerph15010106>.

Gmuender, H. (2002) 'Perspectives and challenges for DNA microarrays in drug discovery and development', *BioTechniques*, 32(1), pp. 152–154, 156, 158.

Gmuender, H. and Hohn, A. (2002) 'The predictive value of gene expression microarrays in toxicogenomics', *DrugPlus international*, 1, pp. 8–11.

Gmuender, H., Kuratli, K., Di Padova K, Gray, C.P., Keck, W. and Evers, S. (2001) 'Gene expression changes triggered by exposure of *Haemophilus influenzae* to novobiocin or ciprofloxacin: combined transcription and translation analysis', *Genome research*, 11(1), pp. 28–42.

Gmünder, H. and Kohli, J. (1989) 'Cauliflower mosaic virus promoters direct efficient expression of a bacterial G418 resistance gene in *Schizosaccharomyces pombe*', *Molecular & general genetics: MGG*, 220(1), pp. 95–101.

Gmünder, H., Kuratli, K. and Keck, W. (1995) 'Effect of pyrimido[1,6-a]benzimidazoles, quinolones, and Ca²⁺ on the DNA gyrase-mediated cleavage reaction', *Antimicrobial agents and chemotherapy*, 39(1), pp. 163–169.

Gmünder, H., Kuratli, K. and Keck, W. (1997) 'In the presence of subunit A inhibitors DNA gyrase cleaves DNA fragments as short as 20 bp at specific sites', *Nucleic acids research*, 25(3), pp. 604–611.

Gmünder, H., Lerch, P. and Lesslauer, W. (1982) 'Human lymphocyte membrane proteins treated with neuraminidase', *Biochimica et biophysica acta*, 693(2), pp. 359–363.

Gmünder, H. and Lesslauer, W. (1984) 'A 45-kDa human T-cell membrane glycoprotein functions in the regulation of cell proliferative responses', *European journal of biochemistry / FEBS*, 142(1), pp. 153–160.

Goetschi, E., Angehrn, P., Gmuender, H., Hebeisen, P., Link, H., Masciadri, R. and Nielsen, J. (1993) 'Cyclothialidine and its congeners: a new class of DNA gyrase inhibitors', *Pharmacology & therapeutics*, 60(2), pp. 367–380.

Goetschi, E., Angehrn, P., Gmuender, H., Hebeisen, P., Link, H., Masciadri, R., Nielsen, J., Reindl, P. and Ricklin, F. (1997) *The DNA gyrase inhibitor cyclothialidine: progenitor of a new of antibacterial agents*, *Medicinal Chemistry: Today and Tomorrow*.

Heller, R.A., Allard, J., Fengrong, Z., Lock, C., Wilson, S., Klonowski, P., Gmuender, H., Van Wart, H. and Booth, R. (1999) 'Gene chips and microarrays: applications in disease profiles, drug target discovery, drug action and toxicity', in *DNA Microarrays: A practical approach*. New York: Oxford University Press (The Practical Approach Series), pp. 187–202.

Hendrickx, D.M., Aerts, H.J.W.L., Caiment, F., Clark, D., Ebbels, T.M.D., Evelo, C.T., Gmuender, H., Hebel, D.G.A.J., Herwig, R., Hescheler, J., Jennen, D.G.J., Jetten, M.J.A., Kanterakis, S., Keun, H.C., Matser, V., Overington, J.P., Pilicheva, E., Sarkans, U., Segura-Lepe, M.P., Sotiriadou, I., Wittenberger, T., Wittwehr, C., Zanzi, A. and Kleinjans, J.C.S. (2015) 'diXa: a data infrastructure for chemical safety assessment', *Bioinformatics (Oxford, England)*, 31(9), pp. 1505–1507. Available at: <https://doi.org/10.1093/bioinformatics/btu827>.

Herwig, R., Gmuender, H., Corvi, R., Bloch, K.M., Brandenburg, A., Castell, J., Ceelen, L., Chesne, C., Doktorova, T.Y., Jennen, D., Jennings, P., Limonciel, A., Lock, E.A., McMorrow, T., Phrakonkham, P., Radford, R., Slattery, C., Stierum, R., Vilardell, M., Wittenberger, T., Yildirimman, R., Ryan, M., Rogiers, V. and Kleinjans, J. (2016) 'Inter-laboratory study of human in vitro toxicogenomics-based tests as alternative methods for evaluating chemical carcinogenicity: a bioinformatics perspective', *Archives of Toxicology*, 90(9), pp. 2215–2229. Available at: <https://doi.org/10.1007/s00204-015-1617-3>.

Hochstenbach, Kevin, van Leeuwen, Danitsja M, Gmuender, H., Gottschalk, R.W., Løvik, M., Granum, B., Nygaard, U., Namork, E., Kirsch-Volders, M., Decordier, I., Vande Loock, K., Besselink, H., Törnqvist, M., von Stedingk, H., Rydberg, P., Kleinjans, J.C.S., van Loveren, H. and van Delft, J.H.M. (2012) 'Global gene expression analysis in cord blood reveals gender-specific differences in response to carcinogenic exposure in utero', *Cancer epidemiology, biomarkers & prevention: a publication of the American Association for Cancer Research, cosponsored by the American Society of Preventive Oncology*, 21(10), pp. 1756–1767. Available at: <https://doi.org/10.1158/1055-9965.EPI-12-0304>.

Hochstenbach, Kevin, van Leeuwen, D M, Gmuender, H., Gottschalk, R.W., Stølevik, S.B., Nygaard, U.C., Løvik, M., Granum, B., Namork, E., Meltzer, H.M., Kleinjans, J.C., van Delft, J.H.M. and van Loveren, H. (2012) 'Toxicogenomic profiles in relation to maternal immunotoxic exposure and immune functionality in newborns', *Toxicological sciences: an official journal of the Society of Toxicology*, 129(2), pp. 315–324. Available at: <https://doi.org/10.1093/toxsci/kfs214>.

Hochstenbach, K., van Leeuwen, D.M., Gmuender, H., Stølevik, S.B., Nygaard, U.C., Løvik, M., Granum, B., Namork, E., van Delft, J.H.M. and van Loveren, H. (2010) 'Transcriptomic profile indicative of immunotoxic exposure: in vitro studies in peripheral blood mononuclear cells', *Toxicological Sciences: An Official Journal of the Society of Toxicology*, 118(1), pp. 19–30. Available at: <https://doi.org/10.1093/toxsci/kfq239>.

Hochstenbach, K., van Leeuwen, D.M., Gottschalk, R.W., Gmuender, H., Stølevik, S.B., Nygaard, U.C., Løvik, M., Granum, B., Namork, E., van Loveren, H. and van Delft, J.H.M. (2012) 'Transcriptomic fingerprints in human peripheral blood mononuclear cells indicative of genotoxic and non-genotoxic carcinogenic exposure', *Mutation research*, 746(2), pp. 124–134. Available at: <https://doi.org/10.1016/j.mrgentox.2012.01.002>.

Hubschwerlen, C., Pflieger, P., Specklin, J.L., Gubernator, K., Gmünder, H., Angehrn, P. and Kompis, I. (1992) 'Pyrimido[1,6-a]benzimidazoles: a new class of DNA gyrase inhibitors', *Journal of medicinal chemistry*, 35(8), pp. 1385–1392.

Jeong, A., Fiorito, G., Keski-Rahkonen, P., Imboden, M., Kiss, A., Robinot, N., Gmuender, H., Vlaanderen, J., Vermeulen, R., Kyrtopoulos, S., Herceg, Z., Ghantous, A., Lovison, G., Galassi, C., Ranzi, A., Krogh, V., Grioni, S., Agnoli, C., Sacerdote, C., Mostafavi, N., Naccarati, A., Scalbert, A., Vineis, P. and Probst-Hensch, N. (2018) 'Perturbation of metabolic pathways mediates the association of air pollutants with asthma and cardiovascular diseases', *Environment International*, 119, pp. 334–345. Available at: <https://doi.org/10.1016/j.envint.2018.06.025>.

Kuepfer, L., Clayton, O., Thiel, C., Cordes, H., Nudischer, R., Blank, L.M., Baier, V., Heymans, S., Caiment, F., Roth, A., Fluri, D.A., Kelm, J.M., Castell, J., Selevsek, N., Schlapbach, R., Keun, H., Hynes, J., Sarkans, U., Gmuender, H., Herwig, R., Niederer, S., Schuchhardt, J., Segall, M. and Kleinjans, J. (2018) 'A model-based assay design to reproduce in vivo patterns of acute drug-induced toxicity', *Archives of Toxicology*, 92(1), pp. 553–555. Available at: <https://doi.org/10.1007/s00204-017-2041-7>.

Lerch, P., Gmünder, H. and Lesslauer, W. (1982) 'Human lymphocyte membrane proteins in activation by phytohemagglutinin', *Progress in clinical and biological research*, 85 Pt B, pp. 145–153.

Lesslauer, W. and Gmünder, H. (1986) 'Biochemical characterization of the 9.3 antigens of human T-cells: simultaneous expression of disulfide-bonded 90-kilodalton dimers and free subunits at the cell surface', *Molecular immunology*, 23(3), pp. 271–278.

Lesslauer, W., Gmünder, H. and Böhlen, P. (1988) 'Purification and N-terminal amino acid sequence of the human T90/44 (CD28) antigen', *Immunogenetics*, 27(5), pp. 388–391.

Lesslauer, W., Lerch, P. and Gmünder, H. (1982) 'Two detergent-insoluble proteins of the human lymphocyte membrane are enriched in an isolated membrane fraction', *Biochimica et biophysica acta*, 693(2), pp. 351–358.

Lübbers, T., Angehrn, P., Gmünder, H., Herzog, S. and Kulhanek, J. (2000) 'Design, synthesis, and structure-activity relationship studies of ATP analogues as DNA gyrase inhibitors', *Bioorganic & medicinal chemistry letters*, 10(8), pp. 821–826.

Luebbers, T., Angehrn, P., Gmuender, H. and Herzog, S. (2007) 'Design, synthesis, and structure-activity relationship studies of new phenolic DNA gyrase inhibitors', *Bioorg Med Chem Lett*, 17, pp. 4708–14.

Manawatap-Klopfer, A., Thomsen, L.T., Martus, P., Munk, C., Russ, R., Gmuender, H., Frederiksen, K., Haedicke-Jarboui, J., Stubbenrauch, F., Kjaer, S.K. and Iftner, T. (2016) 'TMEM45A, SERPINB5 and p16INK4A transcript levels are predictive for development of high-grade cervical lesions', *American Journal of Cancer Research*, 6(7), pp. 1524–1536.

Matheis, K.A., Com, E., Gautier, J.-C., Guerreiro, N., Brandenburg, A., Gmuender, H., Sposny, A., Hewitt, P., Amberg, A., Boernsen, O., Riefke, B., Hoffmann, D., Mally, A., Kalkuhl, A., Suter, L., Dieterle, F. and Staedtler, F. (2011) 'Cross-study and cross-omics comparisons of three nephrotoxic compounds reveal mechanistic insights and new candidate biomarkers', *Toxicology and applied pharmacology*, 252(2), pp. 112–122. Available at: <https://doi.org/10.1016/j.taap.2010.11.006>.

Merlo, D.F., Agramunt, S., Anna, L., Besselink, H., Botsivali, M., Brady, N.J., Ceppi, M., Chatzi, L., Chen, B., Decordier, I., Farmer, P.B., Fleming, S., Fontana, V., Försti, A., Fthenou, E., Gallo, F., Georgiadis, P., Gmuender, H., Godschalk, R.W., Granum, B., Hardie, L.J., Hemminki, K., Hochstenbach, K., Knudsen, L.E., Kogevinas, M., Kovács, K., Kyrtopoulos, S.A., Løvik, M., Nielsen, J.K., Nygaard, U.C., Pedersen, M., Rydberg, P., Schoket, B., Segerbäck, D., Singh, R., Sunyer, J., Törnqvist, M., van Loveren, H., van Schooten, F.J., Vande Loock, K., von Stedingk, H., Wright, J., Kleinjans, J.C., Kirsch-Volders, M., van Delft, J.H.M., and NewGeneris Consortium (2014) 'Micronuclei in cord blood lymphocytes and associations with biomarkers of exposure to carcinogens and hormonally active factors, gene polymorphisms, and gene expression: the NewGeneris cohort', *Environmental Health Perspectives*, 122(2), pp. 193–200. Available at: <https://doi.org/10.1289/ehp.1206324>.

Meyer, K., Suter-Dick, L., Amberg, A., Gautier, J.-C., Wendt, M., Riefke, B., Sutter, A., Raschke, M. and Gmuender, H. (2009) 'S08: The challenge of integrating different "omics" technologies', *Experimental and Toxicologic Pathology*, 61(3), p. 260. Available at: <https://doi.org/10.1016/j.etp.2009.02.009>.

Moretti, S., van Leeuwen, D., Gmuender, H., Bonassi, S., van Delft, J., Kleinjans, J., Patrone, F. and Merlo, D.F. (2008) 'Combining Shapley value and statistics to the analysis of gene expression data in children exposed to air pollution', *BMC bioinformatics*, 9, p. 361. Available at: <https://doi.org/10.1186/1471-2105-9-361>.

Nakada, N., Gmünder, H., Hirata, T. and Arisawa, M. (1994) 'Mechanism of inhibition of DNA gyrase by cyclothialidine, a novel DNA gyrase inhibitor', *Antimicrobial agents and chemotherapy*, 38(9), pp. 1966–1973.

Nakada, N., Gmünder, H., Hirata, T. and Arisawa, M. (1995) 'Characterization of the binding site for cyclothialidine on the B subunit of DNA gyrase', *The Journal of biological chemistry*, 270(24), pp. 14286–14291.

Nguyen, N., Souza, T., Verheijen, M.C.T., Gmuender, H., Selevsek, N., Schlapbach, R., Kleinjans, J. and Jennen, D. (2021) 'Translational Proteomics Analysis of Anthracycline-Induced Cardiotoxicity From Cardiac Microtissues to Human Heart Biopsies', *Frontiers in Genetics*, 12, p. 695625. Available at: <https://doi.org/10.3389/fgene.2021.695625>.

Radford, R., Slattery, C., Jennings, P., Blaque, O., Pfaller, W., Gmuender, H., Van Delft, J., Ryan, M.P. and McMorrow, T. (2012) 'Carcinogens induce loss of the primary cilium in human renal proximal tubular epithelial cells independently of effects on the cell cycle', *American Journal of Physiology. Renal Physiology*, 302(8), pp. F905-916. Available at: <https://doi.org/10.1152/ajprenal.00427.2011>.

Rossner, P., Tulupova, E., Rossnerova, A., Libalova, H., Honkova, K., Gmuender, H., Pastorkova, A., Svecova, V., Topinka, J. and Sram, R.J. (2015) 'Reduced gene expression levels after chronic exposure to high concentrations of air pollutants', *Mutation Research*, 780, pp. 60–70. Available at: <https://doi.org/10.1016/j.mrfmmm.2015.08.001>.

Rossnerova, A., Tulupova, E., Tabashidze, N., Schmuczerova, J., Dostal, M., Rossner, P., Jr, Gmuender, H. and Sram, R.J. (2013) 'Factors affecting the 27K DNA methylation pattern in asthmatic and healthy children from locations with various environments', *Mutation research*, 741–742, pp. 18–26. Available at: <https://doi.org/10.1016/j.mrfmmm.2013.02.003>.

de Saizieu, A., Gmuender, H., Gray, C. and Keck, W. (1999) 'Genome-wide transcriptional analysis of bacterial genomes: applications in antibacterial drug discovery', *Nature Genetics*, 23, pp. 40–40. Available at: <https://doi.org/10.1038/14291>.

Selevsek, N., Caiment, F., Nudischer, R., Gmuender, H., Agarkova, I., Atkinson, F.L., Bachmann, I., Baier, V., Barel, G., Bauer, C., Boerno, S., Bosc, N., Clayton, O., Cordes, H., Deeb, S., Gotta, S., Guye, P., Hersey, A., Hunter, F.M.I., Kunz, L., Lewalle, A., Lienhard, M., Merken, J., Minguet, J., Oliveira, B., Pluess, C., Sarkans, U., Schrooders, Y., Schuchhardt, J., Smit, I., Thiel, C., Timmermann, B., Verheijen, M., Wittenberger, T., Wolski, W., Zerck, A., Heymans, S., Kuepfer, L., Roth, A., Schlapbach, R., Niederer, S., Herwig, R. and Kleinjans, J. (2020) 'Network integration and modelling of dynamic drug responses at multi-omics levels', *Communications Biology*, 3(1), pp. 1–15. Available at: <https://doi.org/10.1038/s42003-020-01302-8>.

Stieger, M., Angehrn, P., Wohlgensinger, B. and Gmünder, H. (1996) 'GyrB mutations in *Staphylococcus aureus* strains resistant to cyclothialidine, coumermycin, and novobiocin', *Antimicrobial agents and chemotherapy*, 40(4), pp. 1060–1062.

Stølevik, S.B., Nygaard, U.C., Namork, E., Granum, B., Pellerud, A., van Leeuwen, D.M., Gmuender, H., van Delft, J.H.M., van Loveren, H. and Løvik, M. (2011) 'In vitro cytokine release from human peripheral blood mononuclear cells in the assessment of the immunotoxic potential of chemicals', *Toxicology in vitro: an international journal published in association with BIBRA*, 25(2), pp. 555–562. Available at: <https://doi.org/10.1016/j.tiv.2010.11.021>.

Suter, L., Schroeder, S., Meyer, K., Gautier, J.-C., Amberg, A., Wendt, M., Gmuender, H., Mally, A., Boitier, E., Ellinger-Ziegelbauer, H., Matheis, K. and Pfannkuch, F. (2011) 'EU framework 6 project: predictive toxicology (PredTox)--overview and outcome', *Toxicology and applied pharmacology*, 252(2), pp. 73–84. Available at: <https://doi.org/10.1016/j.taap.2010.10.008>.

Verheijen, M., Lienhard, M., Schrooders, Y., Clayton, O., Nudischer, R., Boerno, S., Timmermann, B., Selevsek, N., Schlapbach, R., Gmuender, H., Gotta, S., Geraedts, J., Herwig, R., Kleinjans, J. and Caiment, F. (2019) 'DMSO induces drastic changes in human cellular processes and epigenetic landscape in vitro', *Scientific Reports*, 9(1), p. 4641. Available at: <https://doi.org/10.1038/s41598-019-40660-0>.

Verheijen, M., Sarkans, U., Wolski, W., Jennen, D., Caiment, F., Kleinjans, J., HeCaToS Consortium, Agarkova, I., Atkinson, F.L., Bachmann, I., Baier, V., Barel, G., Bauer, C., van den Beucken, T., Boerno, S., Bosc, N., Carey, C., Castell, J.V., Clayton, O., Cordes, H., Deeb, S., Gmuender, H., Gotta, S., Guye, P., Hersey, A., Herwig, R., Heymans, S., Hunt, P., Hunter, F.M.I., Hynes, J., Keun, H., Kouloura, E., Kuepfer, L., Kunz, L., Lewalle, A., Lienhard, M., Martínez-Sena, T., Merken, J., Minguet, J., Nguyen, N., Niederer, S., Nudischer, R., Asensio, J.O., Oliveira, B., Panse, C., Pluess, C., Roth, A.B., Schlapbach, R., Schrooders, Y., Schuchhardt, J., Segall, M., Selevsek, N., Sepulveda, P., Smit, I., Thiel, C., Timmermann, B., Wittenberger, T. and Zerck, A. (2022) 'Multi-omics HeCaToS dataset of repeated dose toxicity for cardiotoxic & hepatotoxic compounds', *Scientific Data*, 9(1), p. 699. Available at: <https://doi.org/10.1038/s41597-022-01825-1>.

Verheijen, M., Schroders, Y., Gmuender, H., Nudischer, R., Clayton, O., Hynes, J., Niederer, S., Cordes, H., Kuepfer, L., Kleinjans, J. and Caiment, F. (2018) 'Bringing in vitro analysis closer to in vivo: Studying doxorubicin toxicity and associated mechanisms in 3D human microtissues with PBPK-based dose modelling', *Toxicology Letters*, 294, pp. 184–192. Available at: <https://doi.org/10.1016/j.toxlet.2018.05.029>.

Vineis, P., Chadeau-Hyam, M., Gmuender, H., Gulliver, J., Herceg, Z., Kleinjans, J., Kogevinas, M., Kyrtopoulos, S., Nieuwenhuijsen, M., Phillips, D.H., Probst-Hensch, N., Scalbert, A., Vermeulen, R., Wild, C.P., and EXPOsOMICS Consortium (2017) 'The exposome in practice: Design of the EXPOsOMICS project', *International Journal of Hygiene and Environmental Health*, 220(2 Pt A), pp. 142–151. Available at: <https://doi.org/10.1016/j.ijheh.2016.08.001>.

Vinken, M., Doktorova, T., Ellinger-Ziegelbauer, H., Ahr, H.-J., Lock, E., Carmichael, P., Roggen, E., van Delft, J., Kleinjans, J., Castell, J., Bort, R., Donato, T., Ryan, M., Corvi, R., Keun, H., Ebbels, T., Athersuch, T., Sansone, S.-A., Rocca-Serra, P., Stierum, R., Jennings, P., Pfaller, W., Gmuender, H., Vanhaecke, T. and Rogiers, V. (2008) 'The carcinoGENOMICS project: critical selection of model compounds for the development of omics-based in vitro carcinogenicity screening assays', *Mutation research*, 659(3), pp. 202–210. Available at: <https://doi.org/10.1016/j.mrrev.2008.04.006>.

Yildirimman, R., Brolén, G., Vilardell, M., Eriksson, G., Synnergren, J., Gmuender, H., Kamburov, A., Ingelman-Sundberg, M., Castell, J., Lahoz, A., Kleinjans, J., van Delft, J., Björquist, P. and Herwig, R. (2011) 'Human embryonic stem cell derived hepatocyte-like cells as a tool for in vitro hazard assessment of chemical carcinogenicity', *Toxicological sciences: an official journal of the Society of Toxicology*, 124(2), pp. 278–290. Available at: <https://doi.org/10.1093/toxsci/kfr225>.