

Publikationen

Guglielmetti G, Doesburg P, Scherr C, Martin D, Baumgartner S, Tournier AL. Evaluation of copper chloride crystallisation as a method for systems-level characterisation of phytopharmaceuticals – a pilot investigation. *Scientific Reports* 2026, 16:7506. <https://doi.org/10.1038/s41598-026-41081-6>.

Doesburg P. Metabolomic fingerprinting: revealing the formative forces at play in homeopathic preparations. *Allgemeine Homöopathische Zeitung* 2025, 270: 16-20. Doi: 10.1055/a-2654-8263

Doesburg P, Andersen JO, Scherr C, Kokornaczyk MO, Baumgartner S. Multidimensional outcome parameters in a cress seedling-CuCl₂ crystallization assay to corroborate specific effects of *Stannum metallicum* 30x compared to lactose 30x. *Homeopathy* 2025, 114 (2): 117-129. Doi: 10.1055/s-0044-1785517

Dombrowsky C, Klein SD, Würtenberger S, Baumgartner S, Tournier AL. Mapping the theories and models on the mode of action of homeopathy: A scoping review. *Journal of Integrative and Complementary Medicine* 2025, 31 (11): 937-945. doi: 10.1089/jicm.2024.1007.

Fahrentropp J, Baumgartner S, Würtenberger S, Doesburg P, Kokornaczyk MO. Emergence of novel patterns in dried droplets of combinations of low potencies of plant extracts and salts compared to single substances: A pilot study. *Homeopathy* 2025, doi: 10.1055/s-0045-1802598.

Kokornaczyk MO, Reif M, Loef M, Walach H, Bodrova NB, Doesburg P, da Costa Batista JV, Pannek J, Shah D, Castelan M, Baumgartner S. Multi-cancer detection using pattern formation in drying body fluids: A systematic review and meta-analysis of diagnostic test accuracy studies. *Technology in Cancer Research and Treatment* 2025, 24. doi: 10.1177/15330338251333994.

Schulz VM, Scherr C, Baumgartner S, Tournier A. A versatile *Lepidium sativum* bioassay for use in ecotoxicological studies. *Scientific Reports* 2025, 15 (1):32653 [13 pp]. Doi: 10.1038/s41598-025-17215-7.

Verdi R, Faedo LF, Scherr C, Wright J, Rayns F, Boff P. Bioassay of rice (*Oryza sativa* L.) seedlings in response to dynamized high dilutions of *Calcareo carbonica* and *Silicea terra*. *International Journal of High Dilution Research* 2025, 25: 402-416. doi: 10.51910/ijhdr.v25icf.1719.

Busscher N, Doesburg P. Handbook for the CuCl₂ system. 2024. 336 pp. Das Buch kann heruntergeladen werden unter <https://www.crystal-lab.nl/news>.

Gannon C, Jäggy C. Goldener König und schwarzer Wolf. Alchemistische Bildsprache und Laborpraxis. In: Wagner B, Gannon C (Hrsg.). *Opus magnus. Matthäus Merian d.Ä. und die Bebilderung der Alchemie*. Heidelberg: arthistoricum.net; 2024, 281-286. doi: 10.11588/arthistoricum.1311.

Guglielmetti G, Baumgartner S, Scherr C, Martin D, Tournier AL. Chronobiology of *Viscum album* L.: a time series of daily metabolomic fingerprints spanning 27 years. *Frontiers in Physiology* 2024, 15:1396212. doi: 10.3389/fphys.2024.1396212.

Tournier AL, Bonamin LV, Buchheim-Schmidt S, Cartwright S, Dombrowsky C, Doesburg P, Holandino C, Kokornaczyk MO, van de Kraats EB, Lopez-Carvallo JA, Nandy P, MazonSuastegui JM, Mirzajani F, Poitevin B, Scherr C, Thieves K, Würtenberger S, Baumgartner S. Scientific guidelines for preclinical research on potentised preparations manufactured according to current pharmacopoeias-the PrePoP guidelines. *Journal of Integrative Medicine* 2024, 22(5): 533-544. doi: 10.1016/j.joim.2024.06.005.

Santos de Oliveira Pignaton C, Guimarães Lara M, Da Costa Batista JV, Scherr C, Kokornaczyk MO, Baumgartner S, Carla Holandino, Osvaldo Freitas. Evaluating Pfeiffer circular chromatography as a qualitative methodology of *Viscum album* homeopathic mother tinctures: a multicentric collaborative project between Brazil and Switzerland. *International Journal of High Dilution Research* 2023, 22 (2): 42-43. DOI: 10.51910/ijhdr.v22i2.1359.

Schulz VM, Ücker A, Scherr C, Tournier A, Jäger T, Baumgartner S. Systematic review of conceptual criticisms of homeopathy. *Heliyon* 2023, 9 (11):e21287. doi: 10.1016/j.heliyon.2023.e21287.

Batista JVC, Uecker A, Holandino C, Boylan F, Maier J, Huwyler J, Baumgartner S. A scoping review on the therapeutic potential of resin from the species *Larix decidua* Mill. [Pinaceae] to treat ulcerating wounds. *Frontiers in Pharmacology* 2022, 13:895838. doi: 10.3389/fphar.2022.895838.

Fritz J, Athmann M, Bornhütter R, Busscher N, Geier U, Mergardt G, Scherr C, Doesburg P. Analytical perception and kinesthetic engagement in evaluation of copper chloride crystallization patterns of wheat, grape juice and rocket samples from conventional, organic and biodynamic cultivation. *Chemical and Biological Technologies in Agriculture* 2022, 9:103. doi: 10.1186/s40538-022-00361-9.

Gannon C, Jäggy C. Goldener König und schwarzer Wolf. *Alchemistische Bildsprache und Laborpraxis. Anzeiger EAS* 2022, 26, 4-15.

Ücker A, Baumgartner S, Martin D, Jäger T. Critical evaluation of specific efficacy of preparations produced according to European Pharmacopeia Monograph 2371. *Biomedicines* 2022, 10(3):552. doi: 10.3390/biomedicines10030552.

Athmann M, Bornhütter R, Busscher N., Doesburg P, Geier U, Mergardt G, Scherr C, Köpke U, Fritz J. An update on image forming methods: structure analysis and Gestalt evaluation of images from rocket lettuce with shading, N supply, organic or mineral fertilization, and biodynamic preparations. *Organic Agriculture* 2021, 1-17. doi: 10.1007/s13165-021-00347-1.

Doesburg P, Fritz J, Athmann M, Bornhütter R, Busscher N, Geier U, Mergardt G, Scherr C. Kinesthetic engagement in Gestalt evaluation outscores analytical 'atomic feature' evaluation in perceiving aging in crystallization images of agricultural products, *PLoS ONE* 2021, 16(3): e0248124. doi: 10.1371/journal.pone.0248124.

Jäger T, Würtenberger S, Baumgartner S. Effects of Homeopathic Preparations of Mercurius corrosivus on the Growth Rate of Moderately Mercury-Stressed Duckweed *Lemna gibba* L. Homeopathy 2021, 110(2):122-131. doi: 10.1055/s-0040-1718743.

Ücker A, Baumgartner S, Martin D, Jäger T. Critical Evaluation of Specific Efficacy of Preparations Produced According to European Pharmacopeia Monograph 2371. Biomedicines 2022, 10(3):552. doi: 10.3390/biomedicines10030552. PMID: 35327354; PMCID: PMC8944999.

Peñaloza E, Holandino C, Scherr C, Borges RM, Baumgartner S, Garrett R. Comprehensive metabolome analysis of fermented aqueous extracts of *Viscum album* L. by Liquid Chromatography-High Resolution Tandem Mass Spectrometry. Molecules 2020, 25, 4006; doi:10.3390/molecules25174006.

Doesburg P, Andersen J-O, Scherr C, Baumgartner S. Empirical investigation of preparations produced according to the European Pharmacopoeia monograph 1038, European journal of pharmaceutical sciences 2019, 137 : 104987. doi: 10.1016/j.ejps.2019.104987.

Fritz J, Athmann M, Andersen J-O, Doesburg P, Geier U, Mergardt G. Advanced panel training on visual Gestalt evaluation of biocrystallization images: ranking wheat samples from different extract decomposition stages and different production systems. Biological Agriculture & Horticulture 2019, 35(1) : 21–32. doi: 10.1080/01448765.2018.1492457.

Jäger T, Würtenberger S, Baumgartner S. Effects of Homeopathic Preparations of Mercurius corrosivus on the Growth Rate of Severely Mercury-Stressed Duckweed *Lemna gibba* L. Homeopathy 2019, 108(2):128-138. doi: 10.1055/s-0038-1676464.

Kokornaczyk MO, Scherr C, Bodrova NB, Baumgartner S. Phase-Transition-Induced Pattern Formation Applied to Basic Research on Homeopathy: A Systematic Review. Homeopathy 2018, 107: 181-88.

Busscher N, Doesburg P, Mergardt G, Sokol A, Kahl J, Ploeger A. Influence of dewetting on the crystallization behavior of CuCl₂ in the presence of BSA during evaporation in a Petri dish. Heliyon 2018, 5 : 01102. <https://doi.org/10.1016/j.heliyon.2018.e01102>

Ücker A, Baumgartner S, Sokol A, Huber R, Doesburg P, Jäger T. Systematic Review of Plant-Based Homeopathic Basic Research: An Update. Homeopathy 2018, 107: 115-29.

Majewsky V, Scherr C, Schneider C, Arlt SP, Baumgartner S. Reproducibility of the effects of homeopathically potentised *Argentum nitricum* on the growth of *Lemna gibba* L. in a randomised and blinded bioassay. Homeopathy 2017, 106(3):145-154. doi: 10.1016/j.homp.2017.04.001. Epub 2017 May 9. PMID: 28844287.

Doesburg P, Huber M, Andersen J-O, Athmann M, van der Bie G, Fritz J, Geier U, Hoekman J, Kahl J, Mergardt G, Busscher N. Standardization and performance of a visual Gestalt evaluation of biocrystallization patterns reflecting ripening and decomposition processes in

food samples. *Biological Agriculture & Horticulture* 2015, 31 : 128-145.
<https://doi.org/10.1080/01448765.2014.993705>.

Kahl J, Busscher N, Mergardt G, Andersen J-O, Doesburg P, Arlai A, Ploeger A.
Standardization and Performance Test of Crystallization with Additives Applied to Wheat Samples, *Food Analytical Methods* 2015a, 8 : 2533-2540. <https://doi.org/10.1007/s12161-015-0142-6>

Kahl J, Andersen J-O, Athmann M, Busscher N, Doesburg P, Fritz J, Geier U, Mergardt G.
Laboratory intercomparison for biocrystallization (crystallization with additives) applied to different wheat varieties, *Elemente der Naturwissenschaft* 2015b, 102.

Jäger T, Scherr C, Shah D, Majewsky V, Wolf U, Betti L, Baumgartner S. The use of plant-based bioassays in homeopathic basic research. *Homeopathy* 2015, 104: 277-82.

Baumgartner S, Flückiger H, Kunz M, Scherr C, Urech K. 2014. Evaluation of Preclinical Assays to Investigate an Anthroposophic Pharmaceutical Process Applied to Mistletoe (*Viscum album* L.) Extracts. *Evidence Based Complementary and Alternative Medicine* 2014, 620974.

Majewsky V, Scherr C, Arlt SP, Kiener J, Frrokaj K, Schindler T, Klocke P, Baumgartner S.
Reproducibility of effects of homeopathically potentised gibberellic acid on the growth of *Lemna gibba* L. in a randomised and blinded bioassay. *Homeopathy* 2014, 103(2):113-26.
doi: 10.1016/j.homp.2013.12.004. PMID: 24685416.

Doesburg P, Nierop AF. Development of a structure analysis algorithm on structures from $\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$ crystallization with agricultural products. *Computers and Electronics in Agriculture* 2013, 90: 63-67. doi: 10.1016/j.compag.2012.11.003.

Jäger T, Scherr C, Simon M, Heusser P, Baumgartner S. Development of a test system for homeopathic preparations using impaired duckweed (*Lemna gibba* L.). *Journal of Alternative and Complementary Medicine* 2011, 17(4):315-23. doi: 10.1089/acm.2010.0246. Epub 2011 Apr 8. PMID: 21476829.

Jäger T, Scherr C, Simon M, Heusser P, Baumgartner S. Effects of homeopathic arsenicum album, nosode, and gibberellic acid preparations on the growth rate of arsenic-impaired duckweed (*Lemna gibba* L.). *ScientificWorldJournal* 2010, 10:2112-29. doi: 10.1100/tsw.2010.202. PMID: 21057725; PMCID: PMC5763721.

Scherr C, Simon M, Spranger J, Baumgartner S. Effects of potentised substances on growth rate of the water plant *Lemna gibba* L. *Complementary Therapies in Medicine* 2009, 17(2):63-70. doi: 10.1016/j.ctim.2008.10.004. Epub 2009 Jan 7. PMID: 19185263.

Scherr C, Simon M, Spranger J, Baumgartner S. Test system stability and natural variability of a *Lemna gibba* L. bioassay. *PloS ONE* 2008, 3(9): e3133. doi:10.1371/journal.pone0003133.

Scherr C, Simon M, Spranger J, Baumgartner S. Duckweed (*Lemna gibba* L.) as a test organism for homeopathic potencies. *Journal of Alternative and Complementary Medicine* 2007, 13(9):931-7. doi: 10.1089/acm.2007.0506. PMID: 18047439.