

Curriculum Vitae

Personal information **Timo Wille**

Work experience

01/25 - present: Deputy Director Bundeswehr Institute of Pharmacology and Toxicology
12/22 - 03/25: Head of Task Force CBRN Med Defense; Deputy Commissioner CBRN Med Defense of the Bundeswehr, Bundeswehr Medical Academy
12/21 - 11/22: Unit Head verification analytics laboratory, Bundeswehr Institute of Pharmacology and Toxicology
12/20 - 11/21: Senior Manager Healthcare CBRN Med Defense, R/N Desk Officer, Bundeswehr Medical Academy
2/18 - 11/20: Unit Head verification analytics laboratory, Bundeswehr Institute of Pharmacology and Toxicology
01/15 - 01/18: Group leader organ pharmacology and toxicology, Bundeswehr Institute of Pharmacology and Toxicology
01/14 - 12/14: Scientific assistant, Institute of Pharmacology and Toxicology Technical University Munich
04/12 - 12/13: Group leader enzymology, Bundeswehr Institute of Pharmacology and Toxicology
04/11 - 03/12: General practitioner, Bundeswehr Medical Centre, Neuburg/Donau
03/09 - 03/11: Scientific assistant, Bundeswehr Institute of Pharmacology and Toxicology

Education and training

2022: Appointment as professor Technical University Munich
2016: Habilitation Technical University Munich
2015: Board certified medical specialist in Pharmacology and Toxicology
2010: Medical Thesis
2002 - 2008: Medical School University Duisburg-Essen

Additional information

Publications

Publications Timo Wille January 2025

Original articles:

Wille, T., de Groot, H., Rauen, U. (2008): Improvement of the cold storage of blood vessels with a vascular preservation solution. Study in porcine aortic segments. *J Vasc Surg* 47, 422-31.
IF 3.770; „Surgery“ rank 11 of 148

Wille, T., Tenberken, O., Reiter, G., Müller, S., Le Provost, R., Lafont, O., Estour, F., Thiermann, H., Worek, F. (2009): Detoxification of nerve agents by a substituted beta-cyclodextrin: application of a modified biological assay. *Toxicology* 265, 96-100.
IF 3.241; „Toxicology“ rank 19 of 77

Dueppe, P.M., Talbierski, P.M., Hornig, F.S., Rauen, U., Korth, H.-G.,

Wille, T., Boese, R., Omlor, T., de Groot, H., Sustmann, R. (2010): Pyrene-based fluorescent nitric oxide cheletropic traps (FNOCTs) for the detection on nitric oxide (NO) in cell cultures and tissues. *Chemistry* 16, 11121-11132.

IF 5.476; „Chemistry, Multidisciplinary“ rank 18 of 144

Wille, T., Thiermann, H., Worek, F. (2010): Development of a high-throughput screening for nerve agent detoxifying materials using a fully-automated robot-assisted biological assay. *Toxicol In Vitro* 24, 1026-31. IF 2.546; „Toxicology“ rank 33 of 83

Wille, T., Ekström, F., Lee, J.-C., Pang, Y.-P., Thiermann, H., Worek, F. (2010):

Kinetic analysis of interactions between alkylene-linked bis-pyridiniumaldoximes

and human acetylcholinesterases inhibited by various organophosphorus compounds. *Biochem Pharmacol* 80, 941-6.

IF 4.889 „Pharmacology & Pharmacy“ rank 20 of 252

Worek, F., Aurbek, N., **Wille, T.**, Eyer, P., Thiermann, H. (2010):

Kinetic prerequisites of oximes as effective reactivators of organophosphate-inhibited acetylcholinesterase: A theoretical approach. *J Enzyme Inhib Med Chem* 26, 303-308.

IF 1.574 „Chemistry, Medicinal“ rank 29 of 54

Worek, F., **Wille, T.**, Aurbek, N., Eyer, P., Thiermann, H. (2010):

Reactivation of organophosphate-inhibited human, Cynomolgus monkey, swine and guinea pig acetylcholinesterase by MMB-4: A modified kinetic approach. *Toxicol Appl Pharmacol* 249, 231-237.

IF 3.993 „Toxicology“ rank 10 of 83

Worek, F., Aurbek, N., **Wille, T.**, Eyer, P., Thiermann, H. (2010):

Kinetic analysis of interactions of paraoxon and oximes with human, Rhesus monkey, swine, rabbit, rat and guinea pig acetylcholinesterase. *Toxicol Lett* 200, 19-23.

IF 3.581 „Toxicology“ rank 17 of 83

Müller, S., Koller, M., Estour, F., **Wille, T.**, Thiermann, H., Worek, F., Reiter, G. (2010): In vitro toxicokinetic investigation of the degradation of cyclosarin (GF) by different cyclodextrins. *Toxicol Lett* 200, 53-58.

IF 3.581 „Toxicology“ rank 17 of 83

Wille, T., Thiermann, H., Worek, F. (2011): Effect of different buffers on kinetic properties of human acetylcholinesterase and the interaction with organophosphates and oximes. *Arch Toxicol* 85, 193-198.

IF 4.674 „Toxicology“ rank 8 of 83

Wille, T., Thiermann, H., Worek, F. (2011): In vitro kinetic interactions of DEET, pyridostigmine and organophosphorus pesticides with human cholinesterases. *Chem Biol Interact* 190, 53-58.

IF 2.865 „Toxicology“ rank 28 of 83

Le Provost, R., **Wille, T.**, Louise, L., Masurier, N., Müller, S., Reiter, G., Renard, P.Y., Lafont, O., Worek, F., Estour, F. (2011): Optimized strategies to synthesize β -cyclodextrin-oxime conjugates as a new generation of organophosphate scavengers. *Org Biomol Chem* 9, 3026-3032.

IF 3.696 „Chemistry, Organic“ rank 11 of 56

Herkert, N.M., Schulz, S., **Wille, T.**, Thiermann, H., Hatz, R.A., Worek, F. (2011): Pre- and post-treatment effect of pyridostigmine on soman-inhibited human erythrocyte and muscle acetylcholinesterase in vitro. *Toxicol Appl Chem* 253, 7-13.

IF 4.447 „Toxicology“ rank 10 of 83

Wille, T., Thiermann, H., Worek, F. (2011): Evaluation of 6,6'-dithionicotinic acid as alternative chromogen in a modified Ellman method - comparison in various species. *Toxicol Mech Methods*, 21, 533-537.

IF 1.033 „Toxicology“ rank 70 of 83

Wille, T., Gonder, S. Thiermann, H., Seeger, T., Rauen, U., Worek, F. (2011): Evaluation of functional and structural alterations of muscle tissue after short-term cold storage in a new tissue preservation solution. *Cells Tissues Organs* 194, 501-509.

IF 2.203 „Anatomy & Morphology“ rank 6 of 21

Wille, T., Scott, C., Thiermann, H., Worek, F. (2012): Detoxification of G- and V-series nerve agents by the phosphotriesterase OpdA. *Biocatalysis and Biotransformation* 30, 203-208.

IF 0.895 „Biotechnology and Applied Microbiology“ rank 128 of 160

Worek, F., **Wille, T.**, Koller, M., Thiermann, H. (2012): Reactivation kinetics of a series of related bispyridinium oximes with organophosphate-inhibited human acetylcholinesterase – Structure-activity relationships. *Biochem Pharmacol* 83, 1700-1706.

IF 4.576 “Pharmacology & Pharmacy“ rank 29 of 261

Worek, F., Bierwisch, A., **Wille, T.**, Koller, M., Thiermann, H. (2012): Kinetic interactions of a homologous series of bispyridinium monoximes (HGG oximes) with native and phosphonylated human acetylcholinesterase. *Toxicol Lett* 212, 29-32.

IF 3.145 „Toxicology“ rank 25 of 85

Worek, F., **Wille, T.**, Koller, M., Thiermann, H. (2012): Structural requirements for effective oximes – Evaluation of kinetic in vitro data with phosphylated AChE and structurally different oximes. *Chem Biol Interact* 203, 125-128.

IF 2.967 „Toxicology“ rank 28 of 85

Estour, F., Letort, S., Müller, S., Kalakuntla, R.K., Le Provost, R., **Wille, T.**, Reiter, G., Worek, F., Lafont, O., Gouhier, G. (2012): Functionalized cyclodextrins bearing an alpha nucleophile – A promising way to degrade nerve agents. *Chem Biol Interact* 203, 202-207.

IF 2.967 „Toxicology“ rank 28 of 85

Kalakuntla, R.K., **Wille, T.**, Le Provost, R., Letort, S., Reiter, G., Müller, S., Thiermann, H., Worek, F., Gouhier, G., Lafont, O., Estour, F. (2013): New modified β -cyclodextrin derivatives as detoxifying agents of chemical warfare agents (I). Synthesis and preliminary screening: Evaluation of the detoxification using a half-quantitative enzymatic assay. *Toxicol Lett* 216, 200-205.

IF 3.355 „Toxicology“ rank 20 of 87

Königer, C., Worek, F., Thiermann, H., **Wille, T.** (2013): Effect of MB327 and oximes on rat intestinal smooth muscle function. *Chem Biol Interact* 204, 1-5.

IF 2.982 „Toxicology“ rank 28 of 87

Wille, T., Kaltenbach, L., Thiermann, H., Worek, F. (2013):

Investigation of kinetic interactions between approved oximes and human acetylcholinesterase inhibited by pesticide carbamates. *Chem Biol Interact* 206, 569-572.

IF 2.982 „Toxicology“ rank 28 of 87

Wille, T., Thiermann, H., Worek, F. (2013): In vitro kinetics of nerve agent degradation by fresh frozen plasma (FFP). *Arch Toxicol*, 88, 301-307.

IF 5.078 „Toxicology“ rank 9 of 87

von der Wellen, J., Worek, F., Thiermann, H., **Wille, T.** (2013): Investigations of kinetic interactions between lipid emulsions, hydroxyethyl starch or dextran and organophosphorus compounds. *Clin Tox*, 51, 918-922.

IF 3.122 „Toxicology“ rank 25 of 87

Worek, F., Seeger, T., Goldsmith, M., Ashani, Y., Leader, H., Sussman, J.S., Tawfik, D., Thiermann, H., **Wille, T.** (2014): Efficacy of the rePON1 mutant IIG1 to prevent cyclosarin toxicity in vivo and to detoxify structurally different nerve agents in vitro. *Arch Toxicol* 88:1257-1266.

IF 5.980 „Toxicology“ rank 6 of 88

Worek, F., Seeger, T., Zengerle, M., Kubik, S., Thiermann, H., **Wille, T.** (2014): Effectiveness of a substituted β -cyclodextrin to prevent cyclosarin toxicity in vivo. *Toxicol Lett* 226, 222-227.

IF 3.262 „Toxicology“ rank 21 of 88

Horn, G., **Wille, T.**, Musilek, K., Kuca, K., Thiermann, H., Worek, F. (2015): Reactivation kinetics of 31 structurally different bispyridinium oximes with organophosphate-inhibited human butyrylcholinesterase. *Arch Toxicol* 89, 405-414.

IF 6.637 „Toxicology“ rank 5 of 90

Worek, F., Horn, G., **Wille, T.**, Thiermann, H. (2015): Adaptation of a dynamic in vitro model with real-time determination of butyrylcholinesterase activity in the presence of cyclosarin and an oxime. *Toxicol In Vitro* 29, 162-167.

IF 3.338 „Toxicology“ rank 19 of 90

Worek, F., Herkert, N.M., Koller, M., Thiermann, H., **Wille, T.** (2015): Application of a dynamic in vitro model with real-time determination of acetylcholinesterase activity for the investigation of tabun analogues and oximes. *Toxicol In Vitro* 30, 514-520.

IF 3.338 „Toxicology“ rank 19 of 90

Worek, F., Thiermann, H., **Wille, T.**, (2016): Catalytic bioscavengers in nerve agent poisoning: A promising approach. *Toxicol Lett* 244, 143-148.

IF 3.858 „Toxicology“ rank 14 of 92

Winter, M., **Wille, T.**, Musilek, K., Kuca, K., Thiermann, H., Worek, F. (2016): Investigation of the reactivation kinetics of a large series of bispyridinium oximes with organophosphate-inhibited human acetylcholinesterase. *Toxicol Lett* 244, 136-142.

IF 3.858 „Toxicology“ rank 14 of 92

von der Wellen, J., Bierwisch, A., Worek, F., Thiermann, H., **Wille, T.** (2016): Kinetics of pesticide degradation by human fresh frozen plasma (FFP) in vitro. *Toxicol Lett* 244, 124-128.

IF 3.858 „Toxicology“ rank 14 of 92

Mertens, M.D., Bierwisch, A., Li, T., Gütschow, M., Thiermann, H., **Wille, T.**, Elsinghorst, P.W. (2016): A novel fluorogenic probe for the investigation of free thiols: Application to kinetic measurements of acetylcholinesterase activity. *Toxicol Lett* 244, 161-166.

IF 3.858 „Toxicology“ rank 14 of 92

Bierwisch, A., **Wille, T.**, Thiermann, H., Worek, F. (2016): Kinetic analysis of interactions of amodiaquine with human cholinesterases and organophosphorus compounds. *Toxicol Lett*, 246, 49-56.

IF 3.858 „Toxicology“ rank 14 of 92

Worek F., Schilha, M., Neumaier, K., Aurbek, N., **Wille, T.**, Thiermann, H., Kehe, K. (2016): On-site analysis of acetylcholinesterase and butyrylcholinesterase activity with the ChE check mobile test kit- Determination of reference values and their relevance for diagnosis of exposure to organophosphorus compounds. *Toxicol Lett* 246, 22-28.

IF 3.858 „Toxicology“ rank 14 of 92

Worek, F., Koller, M., Thiermann, H., **Wille, T.** (2016): Reactivation of

nerve agent-inhibited human acetylcholinesterase by obidoxime, HI-6 and obidoxime+HI-6: Kinetic in vitro study with simulated nerve agent toxicokinetics and oxime pharmacokinetics. *Toxicology* 350-352, 25-30.
IF 3.582 „Toxicology“ rank 21 of 92

Neumaier, K., Worek, F., Thiermann, H., **Wille, T.** (2016):
Bispyridinium non-oximes: An evaluation of cardiac effects in isolated hearts and smooth muscle relaxing effects in jejunum. *Toxicol In Vitro* 35, 11-16.
IF 2.866 „Toxicology“ rank 34 of 92

Wille, T., von der Wellen, J., Thiermann, H., Worek, F. (2016):
Pseudocatalytic scavenging of the nerve agent VX with human blood components and the oximes obidoxime and HI-6. *Arch Toxicol*, 91, 1309-1318.
IF 5.901 „Toxicology“ rank 5 of 92

Wille, T., Neumaier, K., Koller, M., Ehinger, C., Aggarwal, N., Ashani, Y., Goldsmith, M., Sussman, J.L., Tawfik, D.S., Thiermann, H., Worek, F. (2016): Single treatment of VX poisoned guinea pigs with the phosphotriesterase mutant C23AL: Intraosseous versus intravenous injection. *Toxicol Lett*, 258, 198-206.
IF 3.858 „Toxicology“ rank 14 of 92

Lechner, R., Helm, M., Mueller, M., **Wille, T.**, Friemert, B. (2016):
Efficacy of hemostatic agents in humans with rotational thromboelastometry: an in-vitro study. *Mil Med*, 181, 907-912.
IF 0.906 „Medicine, General & Internal“ rank 106 of 155

Worek, F., Seeger, T., Neumaier, K., **Wille T.**, Thiermann, H. (2016):
Blaptica dubia as sentinels for exposure to chemical warfare agents - a pilot study. *Toxicol Lett*, 262, 12-16.
IF 3.858 „Toxicology“ rank 14 of 92

Herbert, J., Thiermann, H., Worek, F., **Wille T.** (2017): Precision Cut Lung Slices as test system for candidate therapeutics in organophosphate poisoning. *Toxicology*, 62, 12-16.
IF 3.265 „Toxicology“ rank 26 of 94

Worek, F., Wosar, A., Baumann, M., Thiermann, H., **Wille T.** (2017):

Development of a sensitive, generic and easy to use organophosphate skin disclosure kit. *Toxicol Lett*, 280, 190-194.

IF 3.166 „Toxicology“ rank 29 of 94

Worek, F., Thiermann, H., **Wille T.** (2018): The oximes HI-6 and MMB-4 fail to reactivate soman-inhibited human and guinea pig AChE: A kinetic in vitro study. *Toxicol Lett*, 293, 216-221.

IF 3.166 „Toxicology“ rank 29 of 94

de Koning, M.C., Joosen, M.J.A., Worek, F., Nachon, F., van Grol, M., Klaassen, S.D., Alkema, D.P.W., **Wille, T.**, de Bruijn, H.M. (2017): Application of the Ugi Multicomponent Reaction in the Synthesis of Reactivators of Nerve Agent Inhibited Acetylcholinesterase. *J Med Chem*, 60, 9376-9392.

IF 6.253 „Chemistry, Medicinal“ rank 3 of 59

Marquart, K., Prokopchuk, O., Worek, F., Thiermann, H., Martignoni, M.E., **Wille T.** (2018): Human small bowel as a useful tool to investigate smooth muscle effects of potential therapeutics in organophosphate poisoning. *Toxicol Lett*, 293, 235-240.

IF 3.499 „Toxicology“ rank 26 of 93

Ziegler, K.A., Ahles, A., **Wille, T.**, Kerler, J., Ramanujam, D., Engelhardt, S. (2018):

Local sympathetic denervation attenuates myocardial inflammation and improves cardiac function after myocardial infarction in mice. *Cardiovasc Res*, 114, 291-299.

IF 7.014 „Cardiac & Cardiovascular Systems“ rank 12 of 136

Marquart, K., Herbert, J., Amend, N., Thiermann, H., Worek, F., **Wille T.** (2019): Effect of cholinergic crisis on the potency of different emergency anaesthesia protocols in soman-poisoned rats. *Clin Toxicol*, 57, 343-349.

IF 3.659 „Toxicology“ rank 18 of 92

Lechner, R., Helm, M., Müller, M., **Wille, T.**, Riesner, H.J., Friemert, B (2019): In-vitro study of species-specific coagulation differences in animals and humans using rotational thromboelastometry (ROTEM). *J R Army Med Corps*, 165, 356-359.

IF 0.994 „Medicine, General & Internal“ rank 124 of 165

Herbert, J., Thiermann, H., Worek, F., **Wille T.** (2019): COPD and asthma therapeutics for supportive treatment in organophosphate poisoning. *Clin Toxicol* 57, 644-651.

IF 3.659 „Toxicology“ rank 18 of 92

Marquart, K., Prokopchuk, O., Wilhelm, D., Worek, F., Thiermann, H., Martignoni, M.E., **Wille T.** (2019): Human small bowel as model for poisoning with organophosphorus compounds. *Toxicol in Vitro*, 57, 76-80.

IF 2.959 „Toxicology“ rank 42 of 92

Amend, N., Thiermann, H., Worek, F., **Wille T.** (2019): The arrhythmogenic potential of nerve agents and a cardiac safety profile of antidotes - A proof-of-concept study using human induced pluripotent stem cells derived cardiomyocytes (hiPSC-CM). *Toxicol Lett*, 308, 1-6.

IF 3.569 „Toxicology“ rank 20 of 92

Lemke, C., Christmann, J., Yin, J., Alonso, J.M., Serrano, E., Chioua, M., Ismaili, L., Martínez-Grau, M.A., Beadle, C.D., Vetman, T., Dato, F.M., Bartz, U., Elsinghorst, P.W., Pietsch, M., Müller, C.E., Iriepa, I., **Wille, T.**, Marco-Contelles, J., Gütschow, M.(2019): Chromenones as multineurotargeting inhibitors of human enzymes, *ACS Omega*, 4, 22161-22168.

IF 2.870 „Chemistry, Multidisciplinary“ rank 81 of 177

Wille, T., Djordjevic, S., Worek, F., Thiermann, H., Vucinic, S. (2020): Early diagnosis of nerve agent exposure with a mobile test kit and implications for medical countermeasures: a trigger to react. *J R Army Med Corps / BMJ Mil Health*, 166, 99-102.

IF 1.285 „Medicine, General and Internal“ rank 121 of 167

Amend, N., Langgartner, J., Siegert, M., Kranawetvogl, T., Koller, M., John, H., Pflügler, C., Mögele-Schmid, C., Worek, F., Thiermann, H., **Wille T.** (2020): A Case Report of Cholinesterase Inhibitor Poisoning: Cholinesterase Activities and Analytical Methods for Diagnosis and Clinical Decision Making. *Arch Toxicol* 94, 2239-2247.

IF 5.153 „Toxicology“ rank 16 of 93

Worek, F., Thiermann, H., Koller, M., **Wille, T.** (2020): In Vitro

Interaction of Organophosphono- and Organophosphorothioates with Human Acetylcholinesterase. *Molecules* 25, 3029.

IF 4.412 „Chemistry, multidisciplinary“ rank 63 of 178

Koller, M., Thiermann, H., Worek, F., **Wille, T.** (2021): Release of protein-bound nerve agents by excess fluoride from whole blood: GC-MS/MS method development, validation, and application to a real-life denatured blood sample. *J Chromatogr B Analyt Technol Biomed Life Sci*, 1179: 122693.

IF 3.205 „Chemistry, analytical“ rank 33 of 94

Amend, N., Worek, F., Thiermann, H., **Wille, T.** (2021): Investigation of cardiac glycosides from oleander in a human induced pluripotent stem cells derived cardiomyocyte model. *Toxicol Lett*, 250: 261-266.

IF 4.372 „Toxicology“ rank 18 of 99

Tigges, J., Eggerbauer, F., Worek, F., Thiermann, H., Rauen, U., **Wille, T.** (2021): Optimization of long-term cold storage of rat precision cut lung slices (PCLS) with a tissue preservation solution. *Am J Physiol Lung Cell Mol Physiol*, 321: L1023-1035.

IF 5.464 „Physiology“ rank 11 of 81

Tigges, J., Worek, F., Thiermann, H., **Wille, T.** (2022): Organophosphorus pesticides exhibit compound specific effects in rat precision cut lung slices (PCLS): mechanisms involved in airway response, cytotoxicity, inflammatory activation and antioxidative defense. *Arch Toxicol* 96, 321-334.

IF 5.153 „Toxicology“ rank 8 of 99

Stigler, L., Köhler, A., Koller, M., Job, L., Escher, B., Potschka, H., Thiermann, H., Skerra, A., Worek, F., Wille, T., (2022): Post-VX exposure treatment of rats with engineered phosphotriesterases. *Arch Toxicol* doi: 10.1007/s00204-021-03199-6 in press.

IF 5.153 „Toxicology“ rank 8 of 99

Elsinghorst, P.W., **Wille, T.**, Barić, D., Mertens, M.D., Baumann, M., Küppers, J., Gütschow, M. (2022): Aminoalkoxy-substituted coumarins: Synthesis and evaluation for reactivation of inhibited human acetylcholinesterase. *Arch Pharm (Weinheim)* 355;

e2200208. doi: 10.1002/ardp.202200208.

IF 5.1 „Pharmacology & Pharmacy“ rank 56 of 278

Keuler, T., Lemke, C., Elsinghorst, P.W., Iriepa, I., Chioua, M., Martínez-Grau, M.A., Beadle, C.D., Vetman, T., López-Muñoz, F., **Wille, T.**, Bartz, U., Deuther-Conrad, W., Marco-Contelles, J., Gütschow, M., (2022): The Chemotype of Chromanones as a Privileged Scaffold for Multineurotarget Anti-Alzheimer Agents. *ACS Pharmacol Transl Sci*, 2, 1097-1108.

IF 6.0 „Chemistry, Medicinal“ rank 13 of 72

Horn, G., Kranawetvogl, T., John, H., Weigel, C., Rauen, U., Worek, F., **Wille, T.** (2023): Human HepaRG liver spheroids: cold storage protocol and study on pyridinium oxime-induced hepatotoxicity in vitro. *Chem Biol Interact* 369:110285.

IF 4.7 „Pharmacology & Pharmacy“ rank 60 of 354

Amend, N., Thiermann, H., Worek, F., **Wille, T.** (2023): A pharmacologically pre-contracted smooth muscle bowel model for the study of highly-potent opioid receptor agonists and antagonists. *Toxicol Lett*, 382: 41-46.

IF 2.9 „Toxicology“ rank 49 of 106

Cibulsky, S.M., **Wille, T.**, Funk, R., Sokolowski, D., Gagnon, C., Lafontaine, M., Brevett, C., Jabbour, R., Cox, J., Russel, D.R., Jett, D.A., Thomas, J.D., Nelson, L.S. (2023): Public health and medical preparedness for mass casualties from the deliberate release of synthetic opioids. *Front Public Health* 11:1158479.

IF 3.0 „Public, Environmental & Occupational Health“ rank 115 of 408

Kranawetvogl, T., Kranawetvogl, A., Scheidegger, L., **Wille, T.**, Steinritz, D., Worek, F., Thiermann, H., John, H. (2023): Evidence of nerve agent VX exposure in rat plasma by detection of albumin-adducts in vitro and in vivo. *Arch Toxicol* 97: 1873-1885.

IF 4.8 „Toxicology“ rank 14 of 106

Amend, N., Koller, M., Schmitt, C., Worek, F., **Wille, T.** (2023): The suitability of a polydimethylsiloxane-based (PDMS) microfluidic two compartment system for the toxicokinetic analysis of organophosphorus

compounds. *Toxicol Lett*, 388: 24-29.
IF 2.9 „Toxicology“ rank 49 of 106

Gölitiz, F., Herbert, J., Worek, F., **Wille, T.** (2024): AChE reactivation in precision-cut lung slices following organophosphorus compound poisoning. *Toxicol Lett*, 392: 75-83.

Invited reviews:

Wille, T., Rauen, U. (2010): Eine neue Lösung zur kalten Lagerung von Blutgefäßen. *Gefäßchirurgie* 15, 442-447.
„Springer Award Gefäßmedizin 2010“

Elsinghorst, P.W., Worek, F., Thiermann, H., **Wille, T.** (2013): Drug development for the management of organophosphorus poisoning. *Expert Opin Drug Discov* 8, 1467-1477.
IF 3.467 „Pharmacology and Pharmacy“ rank 55 of 256

Worek, F., Thiermann, H., **Wille, T.** (2016): Oximes in organophosphate poisoning: 60 years of hope and despair. *Chem Biol Interact* 259, 25-30.
IF 3.143 „Toxicology“ rank 27 of 92

Worek, F., **Wille, T.**, Koller, M., Thiermann, H. (2016): Toxicology of organophosphorus compounds in view of an increasing terrorist threat. *Arch Toxicol* 90, 2131-2145.
IF 5.901 „Toxicology“ rank 5 of 92

Wille, T., Steinritz, D., Worek, F., Thiermann, H. (2019): Chemical Warfare Agent Poisoning / Vergiftungen durch chemische Kampfstoffe. *Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz* 62, 1370-1377.
IF 1.059 „Public, Environmental & Occupational Health“ rank 167 of 193

Amend, N., Niessen, K.V., Seeger, T., **Wille, T.**, Worek, F., Thiermann, H. (2020): Diagnostics and treatment of nerve agent poisoning - current status and future developments. *Ann N Y Acad Sci* 1479, 13-28.

IF 5.691 „Multidisciplinary Sciences” rank 13 of 72

Worek, F., Thiermann, H., **Wille T.** (2020): Organophosphorus Compounds and Oximes: A Critical Review. *Arch Toxicol* 94, 2275-2292
IF 5.153 „Toxicology“ rank 16 of 93

Lehmann, M., Krishnan, R., Sucre, J., Kulkarni, H.S., Pineda, R.H., Anderson, C., Banovich, N.E., Behrsing, H.P., Dean, C.H., Haak, A., Gosens, R., Kaminski, N., Zagorska, A., Koziol-White, C., Metcalf, J.P., Kim, Y.H., Loebel, C., Neptune, E., Noel, A., Raghu, G., Sewald, K., Sharma, A., Suki, B., Sperling, A., Tatler, A., Turner, S., Rosas, I.O., van Ry, P., **Wille, T.**, Randell, S.H., Pryhuber, G., Rojas, M., Bourke, J., Königshoff, M (2024): Precision Cut Lung Slices: Emerging Tools for Preclinical and Translational Lung Research. An Official American Thoracic Society Workshop Report. *Am J Respir Cell Mol Biol*, 72: 16-31.

Abstracts and non-peer-reviewed articles:

Wille, T., de Groot, H., Rauen, U. (2006): Study of storage injury to the endothelium of porcine aortic segments. *Cryobiology* 53, 436.

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Projects

Principal Investigator in Research Training Group GRK 2338 "Targets in Toxicology - Deciphering Therapeutic Targets in Lung Toxicology"

Memberships

German Society for Experimental and Clinical Pharmacology and Toxicology
German Society for Military Medicine and Pharmacy
Society of Toxicology
NATO CBRN Medical Working Group
NATO Human Factors and Medicine 306 (Translating Medical Chemical Defence Research Into Operational Medical Capabilities Against Chemical Warfare Agent Threats)
Global Health Security Initiative Chemical Event Working Group
Councilor Society of Toxicology; Clinical Translational Toxicology Specialty Section (2024-2025)
Ethics Committee of the Technical University of Munich

Other Relevant Information