

Curriculum Vitae

Inge Werner, Ph.D.

EDUCATION

- M.Sc. Limnology, Albert-Ludwig University, Freiburg, Germany, October 1990
Ph.D. Zoology, Johannes-Gutenberg University, Mainz, Germany, December 1995
Postdoc Laboratory Prof. D. E. Hinton, Aquatic Toxicology Program, Dept. of Anatomy, Physiology and Cell Biology, School of Veterinary Medicine, University of California, Davis, CA, 1996-99

PROFESSIONAL EXPERIENCE

- Senior Scientist (40%), Swiss Centre for Applied Ecotoxicology, Dübendorf, Switzerland, 2019-21
Director, Swiss Centre for Applied Ecotoxicology, Dübendorf, Switzerland, 2010-19
Adjunct Professor, Dept. of Anatomy, Physiology and Cell Biology, School of Veterinary Medicine, UC Davis, USA, 2009-11
Director, Aquatic Toxicology Laboratory, Dept. of Anatomy, Physiology and Cell Biology, School of Veterinary Medicine, UC Davis, USA, 2005-10
Associate Adjunct Professor, Dept. of Anatomy, Physiology and Cell Biology, School of Veterinary Medicine, UC Davis, USA, 2005-09
Research Faculty, Dept. of Anatomy, Physiology and Cell Biology, School of Veterinary Medicine, UC Davis, USA, 1999-2005
Graduate Research Assistant, Doctoral Research: "Stress proteins in amphipods as sublethal indicators of exposure to sediment associated contaminants." Romberg Tiburon Center for Environmental Studies, San Francisco State University, Tiburon, CA, USA, 1992-95
Private Environmental Consultant: Macroinvertebrate bioassessment of streams in Southern Germany. Freiburg, Germany 1991-92
Graduate Research Assistant, Master's Research: "Filtration and assimilation of natural bacterioplankton and *Isochrysis galbana* by the Asian bivalve *Potamocorbula amurensis*." Romberg Tiburon Center for Environmental Studies (J.T. Hollibaugh), San Francisco State University, Tiburon, CA, USA, 1989 – 90

OTHER PROFESSIONAL ACTIVITIES

- Member, Scientific Advisory Council, Bundesanstalt für Gewässerkunde (German Federal Institute of Hydrology) Koblenz, Germany, 2018-current
Scientific Advisor, aQuaTox-Solutions GmbH, 2017-current
Scientific Advisor, "Contaminants of Emerging Concern: Water Quality Data Synthesis and Evaluation", San Francisco Estuary Institute-Aquatic Science Center, Richmond, California, 2020-22.
Member, Leitungsguppe Gewässerbeurteilung Schweiz (Guidance Committee for the Assessment of Surface Water Resources in Switzerland), 2017-20
Member of the Advisory Group of the "Platform Micropollutants" of the Swiss Association of Water Protection Professionals (VSA), 2016-18
Member of the "Working Group Methods" (AG Methoden) of the Guideline Program for Environmental Assessment of the Swiss Federal Office of the Environment, 2015-17
Science Advisory Panel, Research Institute for Ecosystem Analysis and Assessment (Forschungsinstitut für Ökosystemanalyse und -bewertung e.V.), Aachen, Germany, 2011-2019
Session Chair, Toxicology & Ecotoxicology of PTS, 15th International Symposium on Persistent Toxic Substances, 6-11 November 2018, Muttens, Switzerland

Member, Scientific Review Panel, Helmholtz Center for Environmental Research - UFZ Leipzig, Germany, 2018

External expert for the evaluation of candidates for the position of Professor / Associate Professor / Assistant Professor in Aquatic Ecotoxicology in the Urban Environment at University of Helsinki, Finland, 2017

Chair, Annual Meeting of Society of Environmental Toxicology and Chemistry - German Language Branch, September 7-10, 2015, Zurich, CH

Elected participant, "SETAC Europe Horizon Scanning Workshop", May 6-7, 2015, Barcelona, Spain (during Annual Meeting of SETAC Europe)

Invited participant, Denkwerkstatt „Nachhaltiges Agrarsystem Schweiz - Diskussionen über innovative Zukunftsideen zur Weiterentwicklung der Agrarpolitik“ (3 days, Bern), organized by Bundesamt für Landwirtschaft (Federal Office of Agriculture), Bern, CH

Discussion panel member, symposium "Pesticide reduction in agriculture – What action is needed?" at ETH Zurich on 3rd September 2015, organized by HELVETAS Swiss Intercooperation, Zurich, CH

Session Chair "Transcriptomics", "Mechanisms" and "Multiple Stressors", Annual Meeting of Society of Environmental Toxicology and Chemistry - German Language Branch, September 7-10, 2015, Zurich, CH

Member, Scientific Conference Committee, Pollutant Responses in Marine Organisms (PRIMO), 18, May 24-27, 2015, Trondheim, Norway.

Moderator, Round Table Workshop Plant Protection Products, April 4, 2014, Federal Office of Agriculture, Berne, Switzerland

Proposal reviewer, State and Federal Contractors Water Agency, Sacramento, California, USA

Session Chair Risikobewertung und Regulatorik, Annual Meeting of Society of Environmental Toxicology and Chemistry - German Language Branch, September 7-11, 2014, Giessen, Germany

Member, Scientific Conference Committee, Annual Meeting of Society of Environmental Toxicology and Chemistry - German Language Branch, September 7-11, 2014, Giessen, Germany

Past president, Society of Environmental Toxicology and Chemistry - German Language Branch, 2014.

Proposal reviewer, Bundesamt für Landwirtschaft, Bern, Switzerland

Science Advisor, EU-Project RADAR: Rationally Designed Aquatic Receptors integrated in label-free biosensor platforms for remote surveillance of toxins and pollutants (Project coordinated by Centre Suisse d'Electronique et de Microtechnique SA, CH-Landquart), www.fp7-radar.eu

Member, Local Organising Committee, SETAC EU Annual Meeting 2014, Basel, Switzerland

Member, Local Scientific Programme Committee, Micropol & Ecohazard 2013, Zurich, Switzerland.

Member, Local Scientific Programme Committee, Eurotox 2013, Interlaken, Switzerland.

Member, Scientific Committee, Annual Meeting of Society of Environmental Toxicology and Chemistry - German Language Branch, September 15-17, 2011, Landau, Germany.

Advisory Board Member, *Environmental Sciences Europe* (Springer, New York), 2011-.

Expert Panel Referee, German Science Foundation, Bonn, Germany, 2011.

President, Society of Environmental Toxicology and Chemistry - German Language Branch, 2013.

Member, Award Committee, Young Scientist Award of SETAC German Language Branch, 2011-2014.

Board of Directors, Society of Environmental Toxicology and Chemistry - German Language Branch, 2011-2012.

Expert Panel Referee, Research Council of Norway, Oslo, 2009.

Session Chair, Calfed Science Conference, Oct. 22-24, 2008, Sacramento, CA, "Pesticides: Sources and Toxicity to Aquatic Organisms".

National Center for Ecological Analysis and Synthesis (NCEAS) Working Group: The potential role of contaminants in the decline of pelagic organisms in the upper San Francisco Estuary, California, USA. Santa Barbara, 2008-09.

Science and Technical Advisory Team, Rush Ranch Restoration and Management Plan, Solano Land Trust, Fairfield, CA.

Kitchell and Smith Fellowship Awards Committee, Dept. of Anatomy, Physiology and Cell Biology, School of Veterinary Medicine, UC Davis, 2008-2011.

Executive Committee of the Center for Aquatic Biology and Aquaculture, UC Davis, 2008-2010.

Academic Federation Professional Development Committee, UC Davis, 2007-2010.

Chair, Ecotoxicology Area of Emphasis, Graduate Group in Ecology, UC Davis, 2008-2010.

Scientific Advisor (Action Leader: Chemical Stressors, Pyrethroid Pesticides), Delta Regional Ecosystem Restoration Implementation Plan (DRERIP), Calfed Bay-Delta Program, 2006-09.

Science Advisor, Bay Delta Conservation Plan, California Resources Agency, 2007-09.

Program Chair, 4th Biennial CALFED Science Conference, Oct 23-25, 2006, Sacramento, CA.

Co-Conference Chair, 2005 Annual Meeting of the Northern California Chapter of the Society of Environmental Toxicology and Chemistry, UC Berkeley, CA.

Conference Chair, 2004 Annual Meeting of the Northern California Chapter of the Society of Environmental Toxicology and Chemistry. UC Davis, CA.

Board of Directors, Northern California Chapter of the Society of Environmental Toxicology and Chemistry, 2003-2006.

Academic Senate International Studies and Exchanges Committee, UC Davis, 2002-2005.

Executive Committee, University of California -Toxic Substances Research and Teaching Program – Ecotoxicology Lead Campus Program, UC Davis, 2001-2003.

Technical Reviewer: National Science Foundation, U.S. EPA, Cal EPA, San Francisco Estuary Institute, Sea Grant Virginia, California State Water Resources Control Board, Maryland Sea Grant, Jeffress' Memorial Trust, NorCal SETAC, Israel Science Foundation, US Department of Agriculture 1998-present.

Journal Reviewer: Science, Proceedings of the National Academy of Sciences, Water Research, Chemosphere, Aquatic Toxicology, Marine Environmental Research, Environmental Science and Technology, *Biochimica et Biophysica Acta*, Bulletin of Environmental Contamination and Toxicology, Environmental Toxicology and Chemistry, *Internat. Journal of Molecular Sciences*, Environmental Science Europe, Comparative Biochemistry and Physiology, Archives of Environmental Contamination and Toxicology, Pesticide Biochemistry and Physiology, Journal of the Marine Biological Association of the United Kingdom, Chemosphere, Integrated Environmental Assessment and Management, Journal of Zhejiang University-Science B, Journal of Agricultural and Food Chemistry, Journal of Aquatic Animal Health, American Fisheries Society Books, Scientific Reports, and others. 1996-present.

TEACHING

Lecturer: Ecotoxicology I-III in *General and Environmental Toxicology*, ETH Zurich (ETHZ 529-0745-00L), Switzerland, autumn term, 9 h of lectures, 2015-19

Co-organizer and lecturer: Regulatory Sciences Advanced Study Programme Module 3 – Introduction to ecotoxicology & environmental risk assessment. Basel, Switzerland, 4-8th November, 2013.

Co-organizer and lecturer: numerous further education courses in ecotoxicology at the Swiss Centre for Applied Ecotoxicology, Dübendorf, Basel and Lausanne, Switzerland, 2010-present

Course leader and lecturer: Comparative Anatomy (Organology) of Vertebrates (APC100/NPB123); 4 units (90-100 students, upper division undergraduate level); 2005-2010.

Course Co-Leader: Preparation for PhD Qualifying Examination, PTX290 Seminar; 2008-2010

PEER-REVIEWED JOURNAL PUBLICATIONS AND BOOK CHAPTERS

126. Fischer S., Groh K., von Siebenthal B., Eugster M., Hennies M., Hollender J., Schirmer K., Werner I. (in prep.). Effect assessment of wastewater effluents using molecular biomarkers in resident brown trout (*Salmo trutta*).

125. Dell'Ambrogio G, Campiche S, Wong JWY, Werner I, Ferrari BJD (in prep.). The influence of soil moisture content on feeding activity of earthworms and enchytraeids.
124. Gundlach M., Di Paolo C., Chen Q., Majewski K., Haigis A.-C., Werner I., Hollert H. (2022). Clozapine modulation of zebrafish swimming behavior and gene expression as a case study to investigate effects of atypical drugs on aquatic organisms. *Science of the Total Environment* 815:152621.
123. Kienle C., Werner I., Fischer S., Lüthi C., Schifferli A., Besselink H., Langer M., McArdell C.S., Vermeirssen E. (2022). Evaluation of a full-scale wastewater treatment plant with ozonation and different post-treatments using a broad range of *in vitro* and *in vivo* bioassays. *Water Research*, 212:118084, doi.org/10.1016/j.watres.2022.118084, [Data set]. Zenodo. doi.org/10.5281/zenodo.5899573.
122. Simon E., Duffek A., Stahl C., Frey M., Scheurer M. Tuerk J., Gehrmann L., Könemann S., Swart K., Behnisch P. Olbrich D., Brion F., Ait-Aïssa S., Pasanen-Kase R., Werner I., Vermeirssen E. (2022). Biological effect and chemical monitoring of Watch List substances in European surface waters: steroidal estrogens and diclofenac - Effect-based methods for monitoring frameworks. *Environment International* 159:107033.
121. Gómez L., Niegowska M., Navarro A., Amendola L., Arukwe A., Ait-Aïssa S., Balzamo S., Barreca S., Belkin S., Bittner M., Blaha L., Buchinger S., Busetto M., Carere M., Colzani L., Dellavedova P., Denslow N., Escher B.I., Hogstrand C., Khan E.A., König M., Kroll K.J., Lacchetti I., Maillot-Marechal E., Moscovici L., Potalivo M., Sanseverino I., Santos R., Schifferli A., Schlichting R., Sforzini S., Simon E., Shpigel E., Sturzenbaum S., Vermeirssen E., Viarengo A., Werner I., Lettieri T. (2021). Estrogenicity of chemical mixtures revealed by a panel of bioassays. *Science of the Total Environment* 785:147284; DOI:10.1016/j.scitotenv.2021.147284
120. Werner, I.; Schneeweiss, A.; Segner, H.; Junghans, M. (2021). Environmental risk of pesticides for fish in small- and medium-sized streams of Switzerland. *Toxics*, 9, 79. <https://doi.org/10.3390/toxics9040079>
119. Rehberger K., Escher B., Scheidegger A., Werner I., Segner H. (2021) Evaluation of an *in vitro* assay to screen for the immunotoxic potential of chemicals to fish. *Scientific Reports* 11:3167, doi.org/10.1038/s41598-021-82711-5.
118. Gryczak M., Wong J.W.Y., Thiemann C., Ferrari B., Werner I., Petzhold C.L. (2020). Use of recycled low-density polyethylene to mitigate the environmental impacts generated from coal mining waste in Brazil. *Journal of Environmental Management* 260:110149
117. Kienle C., Vermeirssen E.L.M., Schifferli A., Singer H., Stamm C., Werner I. (2019). Effects of treated wastewater on the ecotoxicity of small streams – unravelling the contribution of chemicals causing effects. *PLoS ONE* 14(12):e0226278
116. Vivien R., Apothéloz-Perret-Gentil L., Pawlowski J., Werner I., Lafont M., Ferrari B.J.D. (2020). High-throughput DNA barcoding of oligochaetes for abundance-based indices to assess the biological quality of sediments in streams and lakes. *Scientific Reports* 10:2041 | <https://doi.org/10.1038/s41598-020-58703-2>
115. Caputo D.R., Robson S., Werner I., Ford A. (2020). Complete transcriptome assembly and annotation of a critically important amphipod species in freshwater ecotoxicological risk assessment: *Gammarus fossarum* *Environment International* 137:105319
114. Brion F., De Gussem V., Buchinger S., Piccini B., Hollert H., Féray C., Dulio V., Simon E., Werner I., Kase R., Ait-Aïssa S. (2019). Monitoring estrogenic activities of waste and surface waters using an *in vivo* zebrafish embryonic (EASZY) assay: comparison with *in vitro* cell-based assays and determination of effect-based trigger values. *Environment International* 130:104896
113. Simon E., Schifferli A., Bucher T., Olbrich D., Werner I., Vermeirssen E.L.M. (2019) Solid-phase extraction of estrogens and herbicides from environmental waters for bioassay analysis – effects of sample volume on recoveries. *Analytical & Bioanalytical Chemistry* 411:2057-69.
112. Vivien R., Apothéloz-Perret-Gentil L., Pawlowski J., Werner I., Ferrari BJD (2019). Testing different (e)DNA metabarcoding approaches to assess aquatic oligochaete diversity and the biological quality of sediments. *Ecological Indicators* 106:105453
111. Vivien R., Lafont M., Werner I., Laluc M., Ferrari BJD (2019). Assessment of the effects of discharges from water treatment plants on receiving watercourses using oligochaete communities of the porous matrix. *Knowledge and Management of Aquatic Ecosystems* 420:18.

110. Korkaric M., Junghans M., Kase R., Werner I. (2019). Revising environmental quality standards: lessons learned. *Integ Environ Assess Managem* DOI: 10.1002/ieam.4192
109. Wong J., Hitzfeld B., Zimmermann M., Werner I., Ferrari BJD (2018). Current developments and the need for strengthening soil ecotoxicology in Europe: Results of a stakeholder workshop. *Environ. Sci. Eur.* 30:49 <https://doi.org/10.1186/s12302-018-0180-y>
108. Legradi J.B., C. Di Paolo, M. H.S. Kraak, H.G. van der Geest, E. L. Schymanski, A. J. Williams, M.M.L. Dingemans, R. Massei, W. Brack, X. Cousin, M-L. Begout, R. van der Oost, A. Carion, V. Suarez-Ulloa, F. Silvestre, B.I. Escher, M. Engwall, G. Nilén, S.H. Keiter, D. Pollet, P. Waldmann, C. Kienle, I. Werner, A-C. Haigis, D. Knapen, L. Vergauwen, M. Spehr, W. Schulz, W. Busch, D. Leuthold, S. Scholz, C. vom Berg, N. Basu, C. Murphy, J., A. Lampert, J. Kuckelkorn, T. Grummt, H. Hollert (2018). An ecotoxicological view on neurotoxicity assessment. *Environmen. Sci. Eur.* 30:46 <https://doi.org/10.1186/s12302-018-0173-x>
107. Werner I. (2018) The Swiss Ecotox Centre – bridging the gap between research and application. *Environ. Sci. Eur.* 30:15-23, <https://doi.org/10.1186/s12302-018-0147-z>
106. Vermeirssen E., Campiche S., Dietschweiler C., Werner I., Burkhardt M. (2018). Ecotoxicological assessment of immersion samples from façade render containing free or encapsulated biocides. *Environmental Toxicology and Chemistry*, DOI: 10.1002/etc.4176
105. Vivien R., Werner I., Ferrari B.J.D. (2018). Simultaneous preservation of the DNA quality, the community composition and the density of aquatic oligochaetes for the development of genetically based biological indices. *PeerJ* 6:e6050 <http://doi.org/10.7717/peerj.6050>
104. Van den Brink P. J., Boxall A., Maltby L., Brooks B.W., Rudd M., Backhaus T., Spurgeon D., Verougstraete V., Ajao C., Ankley G.T., Apitz S., Arnold K., Brodin T., Cañedo-Argüelles M., Chapman J., Corrales J., Coutellec M.A., Fernandes T.F., Fick J., Ford A.T., Giménez Papiol G., Groh K., Hutchinson T., Kruger H., Kukkonen J., Loutseti S., Marshall S., Muir D., Ortiz M., Paul K., Rico A., Rodea I., Rombke J., Rydberg T., Segner H., Smit M., van Gestel K., Vighi M., Werner I., Zimmer E., van Wensem J. (2018). Towards Sustainable Environmental Quality: Priority Research Questions for Europe. *Environmental Toxicology and Chemistry* 9999:1–15.
103. Ganser B., Bundschuh M., Werner I., Homazava N., Vermeirssen E., Moschet C., Kienle C. (2018). Wastewater alters feeding rate but not vitellogenin level of *Gammarus fossarum* (Amphipoda). *Sci. Tot. Environ.* <https://doi.org/10.1016/j.scitotenv.2018.12.035>
102. Werner I., Young T. (2018). Pyrethroid insecticides – exposure and impacts in the aquatic environment. In: Dominick A. DellaSala, and Michael I. Goldstein (eds.) *The Encyclopedia of the Anthropocene*, vol.[5], pp. 119-126. Elsevier, Oxford, GB. <http://dx.doi.org/10.1016/B978-0-12-409548-9.09992-9>
101. Könemann S., R. Kase, E. Simon, K. Swart, S. Buchinger, M. Schlüsener, H. Hollert, B. I. Escher, I. Werner, S. Ait-Aissa, V. Dulio, S. Valsecchi, S. Polesello, S. Schaan, P. Behnisch, B. Javurkova, O. Perceval, C. Di Paolo, H. Clayton, D.I. Olbrich, S. Tavazzi, E. Sychrova, M. Gundlach, R. Schlichting, L. Leborgne, M. Clara, C. Scheffknecht, Y. Marneffe, C. Chalon, P. Tušil, P.I. Soldàn, B. von Danwitz, J. Schwaiger, A. Moran Palao, I. San Martín Becares, F. Bersani, E. Vermeirssen, K. Hilscherová, G. Reifferscheid, T. Ternes, M. Carere (2018). Effect-based and chemical analytical methods to monitor estrogens under the European Water Framework Directive. *Trends in Analytical Chemistry* 102:225-235; <https://doi.org/10.1016/j.trac.2018.02.008>
100. Kase R., B. Javurkova, E. Simon, K. Swart, S. Buchinger, S. Könemann, B. I. Escher, M. Carere, V. Dulio, S. Ait-Aissa, H. Hollert, S. Valsecchi, S. Polesello, P. Behnisch, C. di Paolo, D. Olbrich, S. Tavazzi, E. Sychrova, M. Gundlach, R. Schlichting, L. Leborgne, M. Clara, C. Scheffknecht, Y. Marneffe, C. Chalon, P. Tusil, P. Soldan, B. von Danwitz, J. Schwaiger, A. Moran Palao, F. Bersani, O. Perceval, C. Kienle, E. Vermeirssen, K. Hilscherova, G. Reifferscheid, I. Werner (2018). Screening and risk management solutions for steroidal estrogens in surface and wastewater. *Trends in Analytical Chemistry* 102, 343-358. DOI.org/10.1016/j.trac.2018.02.013
99. Ittner L.D., Junghans M., Werner I. (2018). Aquatic fungi: A disregarded trophic level in ecological risk assessment. *Frontiers in Environmental Science, Agroecology and Land Use Systems* 6(105). DOI.10.3389/fenvs.2018.00105.

98. Deanovic L.A., Stillway M., Hammock B.G., Fong S., Werner I. (2018). Tracking pyrethroid toxicity in surface water samples: Exposure dynamics and toxicity identification tools for laboratory tests with *Hyalella azteca* (Amphipoda). *Environmental Toxicology and Chemistry* 32(2):462-472.
97. Vivien R., Holzmann M., Werner I., Pawlowski J. Lafont M., Ferrari B.J.D. (2017) Cytochrome c oxydase barcodes for aquatic oligochaete identification: development of a Swiss reference database. *PeerJ* 5:e4122; DOI.10.7717/peerj.4122.
96. Vermeirssen E.L.M., Dietschweiler C., Werner I., Burkhardt M. (2017). Corrosion protection products as a source of bisphenol A 1 and toxicity to the aquatic environment. *Water Research* 123: 586-593.
95. Casado-Martinez M.C., Wildi M., Ferrari B.J.D., Werner I. (2017). Prioritization of substances for national ambient monitoring of sediment in Switzerland. *Environmental Science and Pollution Research* DOI 10.1007/s11356-017-9082-6.
94. Rehberger K., Werner I., Hitzfeld B., Segner H., Baumann L. (2017). 20 Years of fish immunotoxicology – what we know and where we are, *Critical Reviews in Toxicology*, DOI.10.1080/10408444.2017.128802492.
93. Kunz P.Y., Simon E., Aït-Aïssa S., Creusot N., Jayasinghe B.S., Kienle C., Maletz S., Schifferli A., Schönlau C., Denslow N.D., Hollert H., Werner I., Vermeirssen E.L.M. (2017). Effect-based tools for monitoring (xeno)estrogen mixtures in surface waters: Evaluation of five *in vitro* bioassays. *Water Research* 110:378–388.
92. Knauer K., Homazava N., Junghans M., Werner I. (2017). The influence of particles on bioavailability and toxicity of pesticides in surface water. *Integrated Environmental Assessment and Management*. DOI 10.1002/ieam.1867
91. Fong, S.; Louie, S.; Werner, I.; Davis, J.; & Connon, R. E. (2016). Contaminant Effects on California Bay–Delta Species and Human Health. *San Francisco Estuary and Watershed Science*, 14(4). jmie_sfews_33448. <http://escholarship.org/uc/item/52m780xj>
90. Callinan-Hoffmann K., Deanovic L., Werner I., Stillway M., Fong S., Teh S. (2016). An analysis of lethal and sublethal interactions among type I and type II pyrethroid pesticide mixtures using standard *Hyalella azteca* water column toxicity tests. *Environmental Toxicology and Chemistry* 35(10):2542–2549.
89. Junghans, M., S. Andres, J. Bachmann, Kase R., M. Korkaric, I. Kirst, G. Maack, C. T. Moermond, E. Smit, S. Valsecchi, J. Vanhooren, E. Verbruggen, I. Werner and P. Whitehouse (2016). Letter to the Editor. *Environmental Toxicology and Chemistry* 35(10):2392–2394.
88. Werner I.; Aldrich A.; Becker B.; Becker D.; Brinkmann M.; Burkhardt M.; Caspers N.; Campiche S.; Chèvre N.; Düring R.-A.; Escher B. I.; Fischer F.; Giebner S.; Heye K.; Hollert H.; Junghans M.; Kienle C.; Knauer K.; Korkaric M.; Maerkl V.; Muncke J.; Oehlmann J.; Reifferscheid G.; Rensch D.; Schäffer A.; Schiwy S.; Schwarz S.; Segner H.; Simon W.; Triebkorn R.; Vermeirssen E.L.M.; Wintgens T.; Zennegg M. (2016). The 2015 Annual Meeting of SETAC German Language Branch in Zurich (7-10 September, 2015): Ecotoxicology and Environmental Chemistry - from Research to Application. *Environmental Sciences Europe* 28: 20. doi:10.1186/s12302-016-0088-3.
87. Kase R., Korkaric M., Werner I., Agerstrand M. (2016). Criteria for Reporting and Evaluating ecotoxicity Data (CRED): comparison and perception of the Klimisch and CRED methods for evaluating reliability and relevance of ecotoxicity studies. *Environmental Sciences Europe* 28:7, DOI 10.1186/s12302-016-0073-x. And Erratum: *Environmental Sciences Europe* 2016, 28:11, DOI: 10.1186/s12302-016-0079-4
86. Casado-Martinez M.C., Bebon R., Vermeirssen E.M., Werner I. (2016). The sediment-contact test using the ostracod *H. incongruens*: threshold effects of fine sediments on growth. *Chemosphere* 151:220-224.
85. Di Paolo C., Groh K., Zennegg M., Vermeirssen E.L.M., Murk A., Eggen R., Hollert H., Werner I., Schirmer K. (2015). Early life exposure to PCB126 results in delayed mortality and growth impairment in the zebrafish larvae. *Aquatic Toxicology* 169:168-178.
84. Wernersson A.-S., Carere M., Maggi C., et al. (2015). The European technical report on aquatic effect-based monitoring tools under the water framework directive. *Environmental Sciences Europe* 27: 1-11.
83. Jeffries K.M., Komoroske L.M., Truong J., Werner I., Hasenbein M., Hasenbein S., Fanguie N.A., Connon R.E. (2015). The transcriptome-wide effects of exposure to a pyrethroid pesticide on the critically endangered delta smelt (*Hypomesus transpacificus*). *Endangered Species Research* 28:43-60.

82. Javidmehr A., Kass P.; Deanovic L.; Connon R.; Werner I. (2015). 10-Day Survival of *Hyalella azteca* as a function of water quality parameters. *Ecotoxicology and Environmental Safety*, 115:250–256.
81. Clifford M. A., Werner I., Hedrick R. P., Bowen L., & Stott J. (2014). Potential mechanisms in the early mortality of juvenile Chinook salmon exposed concurrently to Infectious Hematopoietic Necrosis Virus (IHNV) and esfenvalerate. *California Fish and Game*, 100(4), 616–629.
80. Carvalho R., Arukwe A., Ait-Aissa S., Bado-Nilles A., Balzamo S., Baun A., Belkin S., Blaha L., Brion F., Conti D., Creusot N., Essig Y., Ferrero V., Flander-Putrlé V., Fürhacker M., Grillari-Voglauer R., Hogstrand C., Jonáš A., Loos R., Lundebye A.-K., Modig C., Olsson P.-E., Pillai S., Polak N., Potalivo M., Sanchez W., Schifferli A., Schirmer K., Sforzini S., Sturzenbaum S., Søfteland L., Turk V., Viarengo A., Werner I., Yagur-Kroll S., Zounková R. (2014). Mixtures of chemical pollutants at European legislation safety concentrations: how safe are they? *Toxicological Sciences* 141 (1): 218-233.
79. Escher B., Allinson M., Altenburger R., Bain P., Balaguer P., Busch W., Crago J. Humpage A., Denslow N.D., Dopp E., Hilscherova K., Kumar A., Grimaldi M., Balanapanage S.J., Jarosova B., Jia A., Makarov S., Maruya K., Medvedev A., Mehinto A., Mendez J., Poulsen A., Prochazka E., Richard J., Schifferli A., Schlenk D., Scholz S., Shiraishi F., Snyder S., Tang J., van der Burg B., van der Linden S., Werner I., Westerheide S., Wong C.K.C., Yang M., Yeung B., Zhang X., Leusch F.D.L. (2014) Benchmarking organic micropollutants in wastewater, recycled water and drinking water with *in vitro* bioassays. *Environmental Science & Technology* 48(3): 1940 - 1956.
78. Hasenbein M., Werner I.; Deanovic L.A., Geist J.; Fritsch E.B., Javidmehr A., Foe C., Fangué, N.A., Connon R.E. (2014). Transcriptomic profiling permits the identification of pollutant sources and effects in ambient water samples. *Science of the Total Environment* 468–469:688–698.
77. Homazava N., Gachet Aquillon C., Vermeirssen E., Werner I. (2014). Simultaneous multi-residue pesticide analysis in soil samples with ultra-performance liquid chromatography-tandem mass spectrometry using QuEChERS and pressurized liquid extraction methods. *International Journal of Environmental Analytical Chemistry* 94(11):1085–1099.
76. Jorgenson B.; Brown L.; Macneale K.; Schlenk D.; Scholz N. L.; Spromberg J.; Werner I.; Weston D.; Young T.; Zhang M.; Zhao Q. (2013). Predicted transport of pyrethroid insecticides from an urban landscape to surface water. *Environmental Toxicology and Chemistry* 32(1): 2469–2477.
75. Brander S.M., Connon R.E., He G. Hobbs J.A., Smalling K.L., Teh S.J., White J.W., Werner I., Denison M.S., Cherr G.N. (2013). From 'omics to otoliths: responses of an estuarine fish to endocrine disrupting compounds across biological scales. *PLOS One* 8(9): e74251. doi:10.1371/journal.pone.0074251.
74. Linares-Casenave J., Van Eenennaam J.P., Werner I., Doroshov S.I. (2013). Temperature stress induces notochord abnormalities and hsp expression in larval green sturgeon (*Acipenser medirostris* Ayres 1854). *Journal of Applied Ichthyology* 29: 958–967.
73. Fritsch E.B., Connon R.E., Werner I., Hudson R., Beggel S. Feng W., Pessah I.N. (2013). Triclosan impairs swimming behavior and alters expression of EC coupling proteins in fathead minnow (*Pimephales promelas*). *Environmental Science and Technology* 47: 2008–2017.
72. Brühl C.A., Schäfer R.B., Mittmann F. Stahlschmidt P., Bruns E., Candolfi M., Egeler P., Hollert H., Kaiser D., Mohr S., Ratte T., Schaumann G., Schleichtrien C., Stock F., Vervliet Scheebaum M., von der Ohe P.C., Weltje L., Werner I. (2012). 16th SETAC GLB (Society of Environmental Toxicology and Chemistry German Language Branch) annual meeting held under the main theme "EcoTOXICOlogy and Environmental CHEMISTRY: crossing borders" from 18th to 20th September 2011 at Landau. *Environmental Sciences Europe* 24:39.
71. Drewes J., Geist J., Hegerl G., Helmig R., Huber H., Jekel M., Keller J., Kinzelbach W., Kögel-Knabner I., Liebl W., Manhard M., Mauser W., Meckenstock R., Menzel A., Mok B., Niessner R., Rutschmann P., Schmidt T., Wegener J., Werner I., Wilderer P. (2012). Integrierter Ansatz zur Wasserforschung und Technologieentwicklung. *KA Korrespondenz Abwasser, Abfall* 59(10):907-9011.
70. Connon R.E., Geist J.P., Werner I. (2012). Effect-based tools for monitoring and predicting the ecotoxicological effects of chemicals in the aquatic environment. *Sensors*, 12: 12741-12771.
69. Werner I., Hitzfeld B. (2012). 50 years of Ecotoxicology since Silent Spring. *GAIA* 21(3): 217– 224.

68. Schlenk D., Lavado R., Loyo-Rosales J.E., Jones W., Werner I., Sedlak D. (2012). Reconstitution studies of pesticides and surfactants exploring the cause of estrogenic activity observed in surface waters of the San Francisco Bay Delta. *Environmental Science and Technology* 46:9106–9111.
67. Deanovic L.A., Markiewicz D., Stillway M., Fong S., Werner I. (2013). Comparing the effectiveness of chronic water column tests with *Hyalella azteca* (Order: Amphipoda) and *Ceriodaphnia dubia* (Order: Cladocera) in detecting toxicity of current-use insecticides. *Environmental Toxicology and Chemistry* 32(3): 707–712.
66. Kienle C., Kunz P., Vermeirssen E., Kase R., Jordi A., Schäfer A., Werner I. 2012. Hormonaktive Substanzen in Schweizer Abwasser und Gewässern. *Mitteilungen der naturforschenden Gesellschaft in Bern*, 69:37-43.
65. Brander S.M., Mosser C.M., Geist J.P., Hladik M.L., Werner I. (2012). Esfenvalerate toxicity to the cladoceran *Ceriodaphnia dubia* in the presence of the green algae, *Pseudokirchneriella subcapitata*. *Ecotoxicology* 21:2409–2418
64. Connon R.E., D'Abronzio L.S., Hostetter N.J., Evans A.F., Roby D.D., Thompson D.E., Loge F.J., and Werner I. (2012). Molecular biomarkers in environmental diagnostics: health assessments in Columbia River Steelhead (*Oncorhynchus mykiss*). *Environmental Science and Technology* 46 (11):6081–6087.
63. Beggel S, Werner I., Connon R.E., and Geist J. (2012). Impacts of the phenylpyrazole insecticide fipronil on larval fish: Time-series gene transcription responses in fathead minnow (*Pimephales promelas*) following short-term exposure. *Science of the Total Environment* 426:160–165.
62. Scholz N.L., Fleishman E., Brown L., Brooks M.L., Mitchelmore C., Werner I., Johnson M.L., Schlenk D. (2012). Pesticides and the decline of pelagic fishes in western North America's largest estuarine ecosystem. *BioScience*. 62(4):428-434.
61. Durieux E.D.H., Connon R.E., Werner I., D'Abronzio L.S., Fitzgerald P.S., Spearow J.L., Ostrach D.J. (2012). Cytochrome P4501A mRNA and protein induction in the striped bass (*Morone saxatilis*). *Fish Physiology and Biochemistry*.
60. Brooks, M.L., E. Fleishman, L. Brown, P. Lehman, I. Werner, M.L. Johnson, N. Scholz, C. Mitchelmore, A. Parker, D. Stoms, J. Drever, D. Dugdale, D. Schlenk, S. Teh, S. van Drunick (2011). Life Histories, Salinity Zones, and Sublethal Contributions of Contaminants to Pelagic Fish Declines Illustrated with a Case Study of San Francisco Estuary, California, USA. *Estuaries and Coasts* 35:603-621.
59. Connon R.E., Deanovic L.A., Fritsch E.B., D'Abronzio L.S. and Werner I. (2011). Sublethal responses to ammonia in the endangered delta smelt; *Hypomesus transpacificus* (Fam. Osmeridae). *Aquatic Toxicology* 105:369– 377.
58. Beggel S, Connon R.E., Werner I., and Geist J. (2011). Changes in gene transcription and whole organism responses in larval fathead minnow (*Pimephales promelas*) following short-term exposure to the synthetic pyrethroid bifenthrin. *Aquatic Toxicology* 105:180–188.
57. Connon R.E., Beggel S., D'Abronzio L.S., Geist J., Loguinov A.S., Vulpe C.D., Werner I. (2011). Molecular biomarkers in endangered species: neuromuscular impairments following sublethal copper exposures in the delta smelt (*Hypomesus transpacificus*). *Environmental Toxicology and Chemistry* 30(2): 290-300.
56. Moore M.T., Denton D.L., Cooper C.M., Wrynski J., Miller J.L., Werner I., Horner G., Crane D., Holcomb D.B., Huddleston III G.M. (2011). Use of vegetated agricultural drainage ditches to decrease pesticide transport from tomato and alfalfa fields in California. *Environmental Toxicology and Chemistry* 30(5): 1044-1049.
55. Werner I., Deanovic L.A., Miller J., Denton D.L., Crane D., Moore M.T., Wrynski J. (2010). Effectiveness of Vegetated Agricultural Drainage Ditches in Removing Pesticide Toxicity. *Environmental Toxicology and Chemistry* 29(12): 2859–2868.
54. Beggel S., Werner I., Connon R.E., Geist J. (2010). Sublethal toxicity of commercial insecticide formulations and their active ingredients to larval fathead minnow (*Pimephales promelas*). *Science of the Total Environment* 408: 3169–3175.
53. Bowen L., Kiernan J.D., Eder K., Werner I., Leutenegger C.M., Adkison M.A., Hedrick R.P. 2011. Euthanization methods influence cytokine mRNA expression levels in age 0 year *Oncorhynchus mykiss* . *Journal of Fish Biology* 79(2):539-545.

52. Werner I., Deanovic L.A., Markiewicz D, Khamphanh J., Reece C.K., Stillway M., Reece C. (2010). Monitoring acute and chronic water column toxicity in the Northern Sacramento-San Joaquin Estuary, California, USA, using the euryhaline amphipod, *Hyalella azteca*: 2006-2007. *Environmental Toxicology and Chemistry* 29(10): 2190–2199.
51. Werner I., Deanovic L., Oki L. 2010. Pesticide toxicity in urban creeks of Sacramento, California. *Abstracts of Papers of the American Chemical Society* 239: 210-AGRO.
50. Bachand P.A.M, Bachand S.M., Lopus S.E., Heyvaert A., Werner I. (2010). Treatment with Chemical Coagulants at Different Dosing Levels Changes Ecotoxicity of Stormwater from the Tahoe Basin, California, USA. *Journal of Environmental Science and Health, Part A*: 45(2):137-154.
49. Connon R.E., Geist J., Pfeiff, J., Loguinov A.S., D’Abronzio L.S., Wintz, H., Vulpe C.D., Werner, I. (2009). Linking mechanistic and behavioral responses to sublethal pyrethroid exposure in the endangered delta smelt; *Hypomesus transpacificus* (Fam. Osmeridae). *BMC Genomics*,10:608.
48. Lopus S.E., Bachand P.A.M., Heyvaert A., Werner I., Teh S.J., Reuter J. (2009). Potential Toxicity Concerns from Chemical Coagulation Treatment of Stormwater in the Tahoe Basin, California, USA. *Ecotoxicology and Environmental Safety* 72:1933-1941.
47. Werner I., Markiewicz D.A., Goding K., Reece K. (2009). Benthic macroinvertebrate communities in ephemeral agricultural drainage ditches of California’s Central Valley. In: *Agricultural Drainage Ditches: Mitigation Wetlands of the 21st Century*. M. T. Moore, R. Kroger, editors. Research Signpost, Kerala, India, pp 1-16.
46. Brander S.M., Werner I., White J.W., Deanovic L.A. (2009). Toxicity of a dissolved pyrethroid mixture to *Hyalella azteca* at environmentally relevant concentrations. *Environmental Toxicology and Chemistry* 28(7): 1493–1499.
45. Eder K.J., Leutenegger C.M., Koehler H.-R., Werner I. (2009). Effects of neurotoxic insecticides on heat-shock proteins and cytokine transcription in Chinook salmon (*Oncorhynchus tshawytscha*). *Ecotoxicology and Environmental Safety* 72(1): 182-190.
44. Werner I., Moran K. (2008) Effects of pyrethroid insecticides on aquatic organisms. In: *Synthetic Pyrethroids: Occurrence and Behavior in Aquatic Environments*. J. Gan, F. Spurlock, P. Hendley, D. P. Weston, editors. American Chemical Society, ACS Symposium Series 991, American Chemical Society, Washington, DC, USA, pp 310-335.
43. Floyd E.Y., Geist J.P., Werner I. (2008). Short-term exposure of the fathead minnow (*Pimephales promelas*) to a pyrethroid insecticide: Implications for growth, behavior, and predation risk. *Environmental Toxicology and Chemistry*, 27(8): 1780–1787.
42. Eder K.J., Clifford M.A., Hedrick R.P., Koehler H.-R., Werner I. (2008) Expression of immune-regulatory genes in juvenile Chinook salmon following exposure to pesticides and infectious hematopoietic necrosis virus (IHNV). *Journal of Fish and Shellfish Immunology* 25: 508–516.
41. Geist J.P., Werner I., Eder K.J., Leutenegger C.M. (2007). Comparisons of tissue-specific transcription of stress response genes with whole animal endpoints of adverse effect in striped bass (*Morone saxatilis*) following treatment with copper and esfenvalerate. *Aquatic Toxicology* 85:28-39.
40. Eder K.J., Koehler H.-R., Werner I. (2007). Pesticide and pathogen: heat shock protein expression and acetylcholinesterase inhibition in juvenile Chinook salmon in response to multiple stressors. *Environmental Toxicology and Chemistry* 26(6):1233-1242.
39. Werner I., Linares-Casenave J., Van Eenennaam J.P., Doroshov S.I. (2006). The effect of temperature stress on heat-shock protein expression and development in larval green sturgeon (*Acipenser medirostris*). *Environmental Biology of Fishes* 79(3-4):191-200.
38. Werner I., Viant M.R., Rosenblum E.S., Gantner A.S., Tjeerdema R.S., Johnson M.L. (2006). Cellular responses to temperature stress in steelhead trout (*Onchorynchus mykiss*) parr with different rearing histories. *Fish Physiology and Biochemistry* 32:261–273.
37. Allen P., Hodge B., Werner I., Cech, Jr J.J. (2006). Effects of size, seawater tolerance, and temperature on the swimming performance of juvenile green sturgeon (*Acipenser medirostris*). *Canadian Journal of Fisheries and Aquatic Science* 63: 1360–1369.

36. Werner I.; Eder K. J.; Phillips J. P.; et al. (2006). Effects of pyrethroid insecticides on early life stages of Chinook salmon (*Oncorhynchus tshawytscha*). *Abstracts of Papers of the American Chemical Society* 232:590-590.
35. Werner I., Judah L. R., Mutz S. et al. (2006). Biomarker responses and growth in *Macoma spec.* outplanted at field sites in California marshes. *Mar Environ Res* 62:S405-S405.
34. Bowen L., Werner I. and Johnson M.L. (2006). Physiological and behavioral effects of increased zinc and temperature on coho salmon (*Oncorhynchus kisutch*). *Hydrobiologia* 559:161-168.
33. Brady J.A., Wallender W.W., Werner I., Fard B.M., Zalom F.G., Oliver M.N., Wilson B.W., Mata M.M., Henderson J.D., Deanovic L.A., Upadhaya S. (2006). Pesticide runoff from orchard floors: a comparative analysis of diazinon and esfenvalerate. *Agriculture, Ecosystems and Environment* 115:56-68.
32. Clifford M.A., Eder K.J., Werner I., Hedrick R.P. (2005). Synergistic effects of esfenvalerate and infectious hematopoietic necrosis virus on juvenile Chinook salmon mortality. *Environmental Toxicology and Chemistry* 24(7):1766-1772.
31. Wheelock C.E., Eder K.J., Werner I., Huang H., D. Jones P.D., Brammell B.F., Elskus A.A., Hammock B.D. (2005). Individual variability in esterase activity and CYP1A levels in Chinook salmon (*Oncorhynchus tshawytscha*) exposed to esfenvalerate and chlorpyrifos. *Aquatic Toxicology* 74:172-192.
30. Liu W.P., Gan J., Lee S.J., Werner I. (2005). Isomer selectivity in aquatic toxicity and biodegradation of bifenthrin and permethrin. *Environmental Toxicology and Chemistry* 24(8):1861-1866.
29. Lu X. Q., Werner I. and Young T.M. (2005) Geochemistry and Bioavailability of Metals in Sediments from Northern San Francisco Bay. *Environment International* 31:593-602.
28. Werner I., Smith T., Feliciano J. and Johnson M.L. (2005) Heat-shock proteins in juvenile steelhead trout (*Oncorhynchus mykiss*) reflect thermal conditions in the Navarro River watershed, California, USA. *Transactions of the American Fisheries Society* 134:399-410.
27. Viant M.R., Werner I., Rosenblum E.S., Gantner A.S., Tjeerdema R.S., Johnson M.L. (2004 (WoS: 2003)). Correlation between stress protein induction and reduced metabolic condition in juvenile steelhead trout (*Oncorhynchus mykiss*) chronically exposed to elevated temperature. *Fish Physiology and Biochemistry* 29:159-171.
26. Zalom F.G, Werner I., Oliver M.N., Deanovic L.A., Kimball T., Wilson B.W., Henderson J.D., Wallender W.W. (2004). Comparison of pest control efficacy, pesticide concentration and toxicity in storm runoff resulting from earlier timing of organophosphate dormant sprays. *Bulletin of Environmental Contamination and Toxicology* 73(2):299-305.
25. Werner I., Zalom F.G., Oliver M.N., Deanovic L.A., Kimball T., Henderson J.D., Wilson B.W., Krueger W., Wallender W.W. (2004). Toxicity of stormwater runoff after dormant spray application in a French prune orchard (Glenn County, California, USA): temporal patterns and the effect of ground covers. *Environmental Toxicology and Chemistry* 23(11):2719-2726.
24. Liu W.P., Gan J., Lee S.J., Werner I. (2004). Isomer selectivity in biodegradation of bifenthrin and permethrin. *Journal of Agricultural and Food Chemistry* 52(20):6233-6238.
23. Joyce B.A., Wallender W.W., Angermann T., Wilson B.W., Werner I., Oliver M.N., Zalom F.G., Oliver M.N. and Henderson J.D. (2004) Using Infiltration Enhancement and Soil Water Management to Reduce Diazinon in Runoff. *Journal of the American Water Resources Association* 40(4):1063-1070.
22. Teh S.J., Deng D.F., Werner I., Teh F.C., Hung S.S.O. (2004). Sublethal toxicity of orchard stormwater runoff contaminated with esfenvalerate and diazinon in Sacramento splittail (*Pogonichthys macrolepidotus*) larvae. *Marine Environmental Research* 59:203-216.
21. Eder K.J., Leutenegger C.M., Wilson B.W. and Werner I. (2004) Molecular and cellular biomarker responses to pesticide exposure in juvenile Chinook salmon (*Oncorhynchus tshawytscha*). *Marine Environmental Research* 58:809-813.
20. Werner I. (2004) The influence of salinity on the heat-shock protein response of *Potamocorbula amurensis* (Bivalvia). *Marine Environmental Research* 58:803-807.

19. Werner I., Teh S.J., Datta S., Lu X.Q. and Young T.M. (2004) Biomarker responses in *Macoma nasuta* (Bivalvia) exposed to sediments from Northern San Francisco Bay. *Marine Environmental Research* 58:299-304.
18. Werner I., Clark S.L., and Hinton D.E. (2003) Biomarkers aid understanding of aquatic organism responses to environmental stressors. *California Agriculture* 57(4):110-115.
17. Zalom F.G., Oliver M.N., Wallender W.W., Werner I., Wilson B.W., Krueger W.H., Angermann B.T., Deanovic L.A., Kimball T.S., Henderson J.D., Oliveira G.H. and P. Osterli (2002). Monitoring and mitigating offsite movement of dormant spray pesticides from California orchards. *Acta Horticulturae* 592:729-735.
16. Klassen PN; Bret BL; Ehn RC; et al. 2002. Stakeholder development of agricultural management practices in orchards to reduce pesticides in surface water following dormant applications in Winter. Conference Proceedings on Total Maximum Daily Load (TMDL: Environmental Regulations, ASAE Publication: 168-172.
15. Angermann T., Wallender W.W., Henderson J. D., Oliveira G. H., Wilson B.W., Werner I., Deanovic L.A., Hinton D. E., Osterli P., Krueger W., Oliver M. N. and Zalom F. G. (2002). Runoff from orchard floors. *Journal of Hydrology* 265:178-194.
14. Werner I., Geist J., Okihiro M., Rosenkranz P. and Hinton D.E. (2002). Effects of dietary exposure to the pyrethroid pesticide esfenvalerate on medaka (*Oryzias latipes*). *Marine Environmental Research* 54:609-614.
13. Washburn B.S., Moreland J.J., Slaughter A.M., Werner I., Hinton D.E. and Sanders B.M. (2002). Effects of handling on heat shock protein expression in rainbow trout (*Oncorhynchus mykiss*). *Environmental Toxicology and Chemistry* 21(3):557-560.
12. Werner I., Deanovic L.A., Hinton D. E., Henderson J. D., Oliveira G.H., Wilson B.W., Osterli P., Krueger W., Wallender W. W., Oliver M. N. and Zalom F. G. (2002). Toxicity of stormwater runoff after dormant spray application of diazinon and esfenvalerate (Asana) in a French prune orchard (Glenn County, California). *Bulletin of Environmental Contamination and Toxicology* 68(1):29-36.11.
11. Werner I., Koger C.S., Hamm J. T. and Hinton D.E. (2001). Ontogeny of the heat shock protein, hsp70 and hsp60, response and developmental effects of heat-shock in the teleost, medaka (*Oryzias latipes*). *Environmental Sciences* 8(1):13-30.
10. Soimasuo M.R., Werner I., Villalobos A. and Hinton D.E. (2001). Cytochrome P450 1A1 and stress protein induction in early life stages of medaka (*Oryzias latipes*) exposed to trichloroethylene (TCE) soot and different fractions. *Biomarkers* 6(2):133-145, doi: 10.1080/13547500010000980
9. Werner I., Koger C.S., Deanovic L.A. and Hinton D.E. (2001). Toxicity of methyl-*tert*-butyl ether to freshwater organisms. *Environmental Pollution* 111:83-88.
8. Werner I. and Hinton D.E. (2000). Spatial profiles of hsp70 proteins in Asian Clam (*Potamocorbula amurensis*) in Northern San Francisco Bay may be linked to natural rather than anthropogenic stressors. *Marine Environmental Research*, 50(1-5):379-384, doi: 10.1016/s0141-1136(00)00058-1.
7. Teh S.J., Werner I. and Hinton D.E. (2000). Sublethal effects of chromium VI in the Asian clam (*Potamocorbula amurensis*). *Marine Environmental Research*, 50(1-5):295-300.
6. Werner I., Deanovic L.A., Connor V., De Vlaming V., Bailey H.C. and Hinton D.E. (2000). Insecticide-caused toxicity to *Ceriodaphnia dubia* (Cladocera) in the Sacramento-San Joaquin River Delta, California, USA. *Environmental Toxicology and Chemistry* 19(1): 215-227.
5. Ringwood A.H., Hameedi M.J., Lee R.F., Brouwer M., Peters E.C., Scott G.I., Luoma S.N., DiGiulio R.T., Depledge M., Steinert S., Teh S., Van Beneden R., Winston G., Epel D., Minier C., Narbonne J.F., Peters L., Roesijadi G., Viarengo A., Werner I., Anderson R., Burnett L., Chu F.L., Oliver L., Paynter K. (1999). Bivalve Biomarker Workshop: overview and discussion group summaries. *Biomarkers* 4 (6): 391-399.
4. Werner I. and Hinton D.E. (1999). Field validation of hsp70 stress proteins as biomarkers in Asian clam (*Potamocorbula amurensis*): is downregulation an indicator of stress? *Biomarkers* 4(6): 473-484.
3. Werner I., Kline K.F. and Hollibaugh J. T. (1998). Stress protein expression in *Ampelisca abdita* (Amphipoda) exposed to sediments from San Francisco Bay. *Marine Environmental Research* 45(4/5): 417-430.
2. Werner I. and Nagel R. (1997) Stress proteins hsp60 and hsp70 in three species of amphipods exposed to cadmium, diazinon, dieldrin and fluoranthene. *Environmental Toxicology and Chemistry* 16(11): 2393-2403.

1. Werner I. and Hollibaugh J.T. (1993). *Potamocorbula amurensis*: Comparison of clearance rates and assimilation efficiencies for phytoplankton and bacterioplankton. *Limnology and Oceanography* 38(5): 949–964.

OTHER PUBLICATIONS

36. Rehberger K., Fasel M., Segner H., Voisin A.-S., Olbrich D., Werner I., Regnier M., Nicholson P., Kreuzer M. (2021). Beeinträchtigen Pflanzenschutzmittel unsere Fische? *Aqua & Gas*
35. Casado M.C., Schneeweiss A., Thiemann C., Dubois N., Pintado-Heerrera M. Lara-Martin P.A., Ferrari B.J.D., Werner I. (2020). Ökotoxizität von Bachsedimenten. Fachbericht, gwf-Wasser, Abwasser 05:55-67, www.gwf-wasser.de
34. Casado M.C., Schneeweiss A., Thiemann C., Dubois N., Pintado-Heerrera M. Lara-Martin P.A., Ferrari B.J.D., Werner I. (2019). Écotoxicité des sédiments de ruisseaux. *Aqua & Gas* 12, 62-71.
33. Schirmer, K., Stadnicka J., Belanger S., Blaha L., Bols N., Dyer S., Embry M., Fischer M., Halder M., Hermens J., Hultman M.T., Kramer, N., Laue H., Lee L., Lillicrap A., Natsch A., Segner H., Tanneberger K., Tolleson E., Werner I., Witters H., Zupanic A. (2019). Cell-based data to predict the toxicity of chemicals to fish. Commentary on the manuscript by Rodrigues et al., 2019. Cell-based assays seem not to accurately predict fish short-term toxicity of pesticides. *Environmental Pollution* 252:476-482.
32. Schneeweiss, A., Segner H., Stadtlander T. Werner I. (2019) Ökotoxikologische Wirkungen Schweiz-relevanter Pflanzenschutzmittel für Fische. *Aqua & Gas* 11, 82-91.
31. Schneeweiss, A., Junghans M., Segner H., Stadtlander T., Werner I. (2019) Ökotoxikologische Risiken Schweiz-relevanter Pflanzenschutzmittel für Fische. *Aqua & Gas* 11, 74-80.
30. Interview I. Werner with M. Bucheli (2019) *Aqua & Gas* 4, 10-13.
29. Ferrari, G., Junghans, M. Korkaric M., Werner I. (2019) Antibiotikaresistenzbildung in der Umwelt: Herleitung von UQK für Antibiotika unter Berücksichtigung von Resistenzbildung. *Aqua & Gas* 6, 52-58.
28. Junghans, M., Langer, M., Baumgartner, C., Vermeirssen E., Werner I. (2019) Ökotoxikologische Untersuchungen: Risiko von PSM bestätigt, NAWA-SPEZ-Studie 2017 zeigt Beeinträchtigung von Gewässerorganismen. *Aqua & Gas* 4, 26-34.
27. Junghans, M., Werner, I., Kuhl, R., Zimmer, E., Ashauer, R. (2018) Beurteilung des Umweltrisikos mit zeitproportionalen Mischproben: Analyse von realen Expositionsprofilen mittels Modellierungen zur zeitabhängigen Ökotoxizität. *Aqua & Gas* 4, 50-57.
26. Kienle, C., Vermeirssen, E., Kunz, P., Werner, I. (2018) Grobbeurteilung der Wasserqualität mit Biotests: Ökotoxikologische Biotests zur Beurteilung von abwasserbelasteten Fließgewässern. *Aqua & Gas* 4, 40-48.
25. Langer, M.; Junghans, M.; Spycher, S.; Koster, M.; Baumgartner, C.; Vermeirssen, E.; Werner, I. (2017) Risque écotoxicologique élevé dans les ruisseaux. Campagne nawa spez: étude de petits cours d'eau influencés par l'agriculture intensive. *Aqua & Gas* 97 (12), 54-64.
24. Langer M., Junghans M., Spycher S., Koster M., Baumgartner C., Vermeirssen E., Werner I. (2017). Hohe ökotoxikologische Risiken in Bächen. *Aqua & Gas* 4, 58-68, SVGW, Grütlistrasse 44, CH-8027 Zürich.
23. Rieggraf C., Fenner K., Werner I., Kase R. (2017). Herleitung von ökotoxikologisch basierten Grenzwerten für Transformationsprodukte von Pharmazeutika: Eine Fallstudie. *Aqua & Gas* 2, 46-56, SVGW, Grütlistrasse 44, CH-8027 Zürich.
22. Casado-Martinez M.C., Molano-Leno L., Grandjean D., De Alencastro L.F., Werner I., Ferrari B.J.D. (2016) Impact des sédiments sur la qualité de l'eau: Surveillance écotoxicologique de la qualité de la rivière Venoge. *Aqua & Gas* 4, 18-26, SVGW, Grütlistrasse 44, CH-8027 Zürich.
21. Campiche S., Grand E., Gachet Aquillon C., Homazava N., Vermeirssen E., Werner I., Ferrari B.J.D., Maurer C., Chervet C., Sturny W.G., Schlaepfer R. (2016). Messung der biologischen Aktivität am Dauerbeobachtungsstandort «Oberacker» anhand des Köderstreifentests. *VBB-Bulletin-BSA* 16 (2015):21-29, Weblink: <http://www.bafu.admin.ch/bodenschutz/> > Fachinformationen > Massnahmen für den Bodenschutz > Bodenbiologie.

20. Kienle, C., Kase, R., Schärer, M., Werner, I. (2015) Ökotoxikologische Biotests - Anwendung von Biotests zur Evaluation der Wirkung und Elimination von Mikroverunreinigungen. *Aqua & Gas* 7/8, 18-26, SVGW, Grütlistrasse 44, CH-8027 Zürich.
19. Kienle C., Kase R., Schärer M., Werner I. (2015). Anwendung von Biotests zur Evaluation der Auswirkungen von Mikroverunreinigungen und ihrer Elimination mit weitergehenden Abwasserreinigungsverfahren. *Aqua & Gas* 7/8:2-10, SVGW, Grütlistrasse 44, CH-8027 Zürich.
18. Casado-Martinez M.C., Ferrari B.J.D., Werner I., Chèvre N. (2015) Methoden zur Bewertung der Sedimentqualität. *Aqua & Gas* 4:76-83, SVGW, Grütlistrasse 44, CH-8027 Zürich.
17. Werner I. (2015). Prolog: Wertvolle Resource Wasser – L'eau, une resource précieuse. *Aqua & Gas* 4:9, SVGW, Grütlistrasse 44, CH-8027 Zürich.
16. Flück R., Casado-Martinez C., Campiche S., De Alencastro F., Rossi L., Ferrari B.J.D., Santiago S., Werner I., Chevre N. 2014. Retour sur l'article « Surveillance de la qualité des sédiments en Suisse. État actuel des méthodes disponibles et mise en place de recommandations. *Aqua & Gas* 6:70-71, SVGW, Grütlistrasse 44, CH-8027 Zürich.
15. Kase R., Aicher L., Werner I. (2013). Environmental and drinking water risk assessment of substances which are toxic to humans or aquatic organisms – examples and options. *Toxicology Letters* 221S: S20.
14. Werner I., Connon R.E. (2013). The promise of ecotoxicogenomics for detecting adverse contaminant effects in non-model species. *Toxicology Letters* 221S: S55.
13. Junghans M., Kunz P., Werner I. 2013. Toxizität von Mischungen. *Aqua & Gas* 5:4-61; SVGW, Grütlistrasse 44, CH-8027 Zürich.
11. Werner I., Kienle C., Kunz P., Vermeirssen E., Kase R. 2012. Endocrine disruptors: measurement, assessment and reduction/Hormonaktive Stoffe: messen, bewerten, minimieren. *Eawag News* 72:8-11.
10. Flück R., Campiche S., De Alencastro F., Rossi L., Ferrari B.J.D., Santiago S., Werner I., Chevre N. 2012. Surveillance de la qualité des sédiments: état actuel des méthodes disponibles et mise en place de recommandations. *Aqua & Gas* 4:18-22, SVGW, Grütlistrasse 44, CH-8027 Zürich.
9. Kunz P., Kienle C., Junghans M., Werner I., Aicher L., Wilks M. (2011). Mischungstoxizität: Bedürfnisse der Praxis. *Gas, Wasser, Abwasser* 3:167-176; SVGW, Grütlistrasse 44, CH-8027 Zürich.
8. Werner I., Anderson S., Larssen K., Oram J. (2008). Chemical stressors in the Sacramento-San Joaquin Delta - conceptual model. *Delta Regional Ecosystem Restoration Implementation Plan (DRERIP)*, Calfed Bay-Delta Authority, Sacramento, CA. http://www.science.calwater.ca.gov/drerip/drerip_index.html
7. Werner I. and Oram J. (2008). Pyrethroid insecticides conceptual model. Sacramento (CA): *Delta Regional Ecosystem Restoration Implementation Plan (DRERIP)*, Calfed Bay-Delta Authority, Sacramento, CA. http://www.science.calwater.ca.gov/drerip/drerip_index.html
6. Werner I., Rosenkranz P., Deanovic L.A. (2006) Life cycle observations and the effect of temperature and salinity on survival and growth of the estuarine amphipod *Gammarus daiberi* (Amphipoda). *IEP Newsletter* 19(1):14-18.
5. Oros D. R. and Werner I. (2005) Pyrethroid Insecticides: An Analysis of Use Patterns, Distributions, Potential Toxicity and Fate in the Sacramento-San Joaquin Delta and Central Valley. *White Paper for the Interagency Ecological Program. SFEI Contribution 415*. San Francisco Estuary Institute, Oakland, CA, 113 pp.
4. Werner I., Anderson M. and Teh S.J. (2003) Biomarkers – An Introduction. Invited article, *NorCal SETAC Newsletter*, 3.
3. Werner I. (2003) Heat-shock (stress) proteins and their application as indicators of sublethal stress. Invited article, *NorCal SETAC Newsletter*, 3.
2. Werner I., Deanovic L.A., Kimball T., Wilson B.W., Krueger W., Wallender W.W., Oliver M.N. and Zalom F.G. Toxicity of stormwater runoff after dormant spray application in a French prune orchard (Glenn Co., California): Temporal Patterns and the effect of ground covers. *Conference Proceedings: pp 46-51, California Plant and Soil Conference, California Chapter of the American Society of Agronomy*, February 5-6, 2003, Modesto, CA.
1. Zalom F.G, Oliver M.N., Werner I., Deanovic L.A., Kimball T., Wilson B.W., Henderson J.D., and Wallender W.W. Mitigating orchard dormant spray runoff by alternative treatment timing; impact on target pest species and

pesticide load. *Conference Proceedings: pp 39-45, California Plant and Soil Conference, California Chapter of the American Society of Agronomy, February 5-6, 2003, Modesto, CA.*