



Curriculum Vitae

Personal information **ZhiChao Dang**

Work experience

1. Employer: RIVM
 - Start date: 092005
 - End date:
 - Position: Senior risk assessor
 - Activities: risk assessment of chemicals endocrine disruptor assessment for industrial chemicals (human health and the environment), biocides/pesticides (human health and non_target organisms), and pharmaceuticals (environment)
 - Country: Netherlands
2. Employer: VUMC
 - Start date: 092004
 - End date: 092005
 - Position: Senior clinical scientist
 - Activities: research work on diabetes
 - Country: Netherlands
3. Employer: LUMC
 - Start date: 121999
 - End date: 092004
 - Position: Senior clinical scientist
 - Activities: research on phytoestrogens on osteoporosis and diabetes
 - Country: Netherlands
4. Employer: Radboud University Nijmegen
 - Start date: 111994
 - End date: 121999
 - Position: PhD research
 - Activities: research on stress response in fish gills
 - Country: Netherlands
5. Employer: Ocean University of China
 - Start date: 071989
 - End date: 111994
 - Position: Lecturer
 - Activities: teaching and research
 - Country: China

Education and training

1. Subject: Radboud University Nijmegen
 - Start date: 111994
 - End date: 052000
 - Qualification: PhD
 - Organisation: lab research, histology, immunocytochemistry, physiology
 - Country: Netherlands

Additional information

Publications

Peer-reviewed papers

1. Bertram MG, Ågerstrand M, Balshine S, Brand JA, Brooks BW, **Dang Z**, Ford AT, Hollert H, LeFauve MK, Manera JL, Martin JM, Michelangeli M, Moiron M, Moore ER, Puglis HJ, Sih A, Steevens JA, Thoré ESJ, Wong BBM, Zink L, Brodin T. Are Behavioral Ecotoxicity Endpoints Relevant at the Population

Level? Evidence-Based Insights for Environmental Protection.
Environ Sci Technol. 2025 Dec 23.

DOI: [10.1021/acs.est.5c07777](https://doi.org/10.1021/acs.est.5c07777).

2. EFSA, Lisa Baumann, Alice Baynes, Susanne Hougaard Bennekou, Kevin Crofton, **Zhichao Dang**, Sigmund Degitz, Jean-Baptiste Fini, Mary Gilbert, Henrik Holbech, Andrea Terron, Majorie Van Duursen, Emily McVey, Maria Arena, Aude Kienzler, Simone Rizzuto, Laura Villamar Bouza, Martin Wilks. 2025. The assessment for potential thyroid-mediated endocrine disruption in amphibians: Clarification on the use of new methods and on the interpretation of changes in thyroid histology. EFSA Journal. <https://doi.org/10.2903/j.efsa.2025.9815>.
3. Pinto PIS, Miglioli A, LaLone CA, Baumann L, Baynes A, Blanc-Legendre M, Cancio I, Cousin X, **Dang Z**, Dumollard R, Ford AT, Green C, Iguchi T, Kearney P, Knigge T, Minier C, Monsinjon T, Monteiro MS, Sturve J, Watanabe H, Yamamoto H, Ankley G, Power DM, Katsiadaki I. Prioritising research on endocrine disruption in the marine environment: a global perspective. Biol Rev Camb Philos Soc. 2025 Nov 25. <https://doi.org/10.1111/brv.70106>.
4. Dang Z. Fish models of obesity, test guidelines, and regulatory challenges of identifying non-EATS endocrine disruptors. Sci Total Environ. 2025 Oct 9;1003:180680. doi:

10.1016/j.scitotenv.2025.180680.

5. Burden N, Aubee C, Augusiak J, Baccaro M, Boehler S, Brion F, Brown RJ, Coady KK, **Dang Z**, Eilebrecht E, Fagundes T, Fisher T, Fryer M, Gao Z, Goodband T, Hecker M, Holbech H, Hoeger S, Jacobs M, Katsiadaki I, Kearney P, Koerner O, Krzykwa J, Marini J, Maunder R, Maynard SK, Mikkelsen F, Mingo V, Panter GH, Pearson A, Pellizzato F, Salinas ER, Schneider SZ, Snow A, Sewell F, Stahlschmidt P, Thorpe K, Villeneuve DL, Weltje L, Wheeler JR, Yamamoto H. Workshop Report: Scoping for the Development of a Proposal for an OECD Guidance Document on Fish Vitellogenin Assessment. *Integr Environ Assess Manag.* 2025 Sep 14:vjaf127. doi: 10.1093/inteam/vjaf127.
6. Possible Applications of New Approach Methodologies (NAMs) in Ecotoxicology. *ALTEX*, 2025, doi:10.14573/altex.2503281
7. Burden N, Mitchell CA, **Dang Z**, Embry MR, Glaberman S, Lagadic L, Lynn SG, Marini J, Mihaich E, McDermott E, Krzykwa J, Salinas ER, Schoenfuss H, Thorpe K, Weltje L, Wheeler JR. Evaluation of in vivo fish and amphibian endocrine test guideline assays: current status and future needs. *Environmental Toxicology and Chemistry*, 2025, 1–20. doi: 10.1093/etjnl/vgaf064
8. Bertram MG, Ågerstrand M, Thoré ESJ, Allen J, Balshine S,

Brand JA, Brooks BW, **Dang Z**, Duquesne S, Ford AT, Hoffmann F, Hollert H, Jacob S, Kloas W, Klüver N, Lazorchak J, Ledesma M, Maack G, Macartney EL, Martin JM, Melvin SD, Michelangeli M, Mohr S, Padilla S, Pyle G, Saaristo M, Sahn R, Smit E, Steevens JA, van den Berg S, Vossen LE, Wlodkowic D, Wong BBM, Ziegler M, Brodin T. EthoCRED: a framework to guide reporting and evaluation of the relevance and reliability of behavioural ecotoxicity studies. *Biol Rev*, 2025, 100, pp. 556–585. 556.

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9. **Dang Z**. Comparison of fish and mammalian adipogenesis *in vitro*: Implications for regulating endocrine disruptors. 2024. *Critical Reviews in Environmental Science and Technology*, 1–29. <https://doi.org/10.1080/10643389.2024.2426815>
1. **Dang Z**. Amphibian toxicity testing for identification of thyroid disrupting chemicals. *Environ Pollut*. 2022 Aug 20:120006. Doi: <https://doi.org/10.1016/j.envpol.2022.120006>.
 2. **Dang Z**, Arena M, Kienzler A. Fish toxicity testing for identification of thyroid disrupting chemicals. *Environ Pollut*. 2021 May 18;284:117374. <https://doi.org/10.1016/j.envpol.2021.117374>
 3. Ford AT, Ågerstrand M, Brooks BW, Allen J, Bertram MG, Brodin T, **Dang Z**, Duquesne S, Sahn R, Hoffmann F, Hollert H, Jacob S, Klüver N, Lazorchak JM, Ledesma M, Melvin SD, Mohr S, Padilla S, Pyle GG, Scholz S, Saaristo M, Smit E, Steevens JA, van den Berg S, Kloas W, Wong BBM, Ziegler M, Maack G. The Role of Behavioral Ecotoxicology in Environmental Protection. *Environ Sci Technol*. 2021 Apr 14. doi: 10.1021/acs.est.0c06493.
 4. Knecht JA de, Rorije E., Maslankiewicz L. and **Dang Z.C**. Feasibility of using interspecies relationships for integration of human and environmental hazard assessment, *Human and Ecological Risk Assessment: An International Journal*

2021, 1-17.

5. **Dang Z.** and Kienzler A. Changes in fish sex ratio as a basis for regulating endocrine disruptors. *Environment International*, 2019, 130, 104928, 22p. <https://doi.org/10.1016/j.envint.2019.104928>
6. **Dang. Z.** Endpoint sensitivity in Amphibian Metamorphosis Assay. *Ecotoxicol. Environ. Saf.* 2019, 167:513-519. <https://doi.org/10.1016/j.ecoenv.2018.10.028>
7. Sobanska M, Scholz S, Nyman AM, Cesnaitis R, Gutierrez Alonso S, Klüver N, Kühne R, Tyle H, de Knecht J, **Dang Z**, Lundbergh I, Carlon C, De Coen W. Applicability of the fish embryo acute toxicity (FET) test (OECD 236) in the regulatory context of Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH). *Environ Toxicol Chem.* 2018, 37:657-670. <https://doi.org/10.1002/etc.4055>
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9. Matthiessen P, Ankley GT, Biever RC, Bjerregaard P, Borgert C, Brugger K, Blankinship A, Chambers J, Coady KK, Constantine L, **Dang Z**, Denslow ND, Dreier DA, Dungey S, Gray LE, Gross M, Guiney PD, Hecker M, Holbech H, Iguchi T, Kadlec S, Karouna-Renier NK, Katsiadaki I, Kawashima Y, Kloas W, Krueger H, Kumar A, Lagadic L, Leopold A, Levine SL, Maack G, Marty S, Meador J, Mihaich E, Odum J, Ortego L, Parrott J, Pickford D, Roberts M, Schaefers C, Schwarz T, Solomon K, Verslycke T, Weltje L, Wheeler JR, Williams M, Wolf JC, Yamazaki K. Recommended approaches to the scientific evaluation of ecotoxicological hazards and risks of endocrine-active substances. *Integr Environ Assess Manag.* 2017, 13(2):267-279.
10. Mihaich EM, Schäfers C, Dreier DA, Hecker M, Ortego L, Kawashima Y, **Dang Z.C.**, Solomon K. Challenges in assigning endocrine-specific modes of action: Recommendations for researchers and regulators. *Integr Environ Assess Manag.* 2017. 13(2):280-292.
11. **Dang Z.C.** Interpretation of fish biomarker data for identification, classification, risk assessment and testing of endocrine disrupting chemicals. *Environment International*, 2016, 92-93, 422-441. <https://doi.org/10.1016/j.envint.2016.04.003>
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22. **Dang Z.C.** Dose-dependent effects of soy phyto-oestrogen genistein on adipocytes: mechanisms of action. *Obesity Review*. 2009, 10, 342-349.
23. **Dang Z.C.**, Rorije E., Hogen Esch T., Muller A., Hakkert B.C., and Piersma A. H. Retrospective analysis of relative parameter sensitivity in multi-generation reproductive toxicity studies. *Reproductive Toxicology* 2009, 28, 196-202.
24. Ouwens D., Diamant M., Fodor M., Hebets D., Pelsers M., ElHasaoui M, **Dang. Z.C.** van den Brom C., Vlasblom R., Rietdijk A., Boer C., Coort S.L., Glatz J.F. and Luiken J.J. Cardiac contractile dysfunction in insulin-resistant rats fed a high-fat diet is associated with elevated CD36-mediated fatty acid uptake and esterification, *Diabetologia*. 2007, 50, 1938-1948.
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- Bonga S.E., Lock R.A.C. Effects of Cu on cortisol receptor and metallothionein expression in gills of *Oncorhynchus mykiss*. *Aquatic Toxicology*. 2000, 51, 45-54.
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 42. **Dang Z.C.** The Effects of the Toxic Algae on Scallop and the Fisheries, *Foreign Aquaculture*. 1994, 2, 23-29.
 43. **Dang Z.C.** Yu C.Y. and Li Y.Q. Effects of Tributyltin (TBT) on Rotifers (*Brachionus plicatilis*). *Marine Environmental Science*. 1993, 12, 6-12.
 44. Dong B.X., Lin T.X. and **Dang Z.C.** The Chromosome Number of *Ostrea Talienwhanensis*, *Journal of Ocean University of Qingdao*. 1992, 22, 54-57.
 45. **Dang Z.C.** and Wang S.Z. Application of Environment Impact Assessment to the Coastal Aquaculture Development, *Environmental Protection*. 1992, 1, 33-34.
 46. **Dang Z.C.** Methods of Detection and Determination of Algal Toxin, *Environmental Protection*. 1992, 11, 36-38.
 47. **Dang Z.C.** The Problems caused by Toxic Algal Bloom, *Qingdao Environment*. 1992, 4, 47-51.
 48. **Dang Z.C.**, Jiang L.Y., and Li Y.Q. The Effect of Soda Plant Effluent on *Dunaliella*, *Marine Environmental Science*. 1992, 11, 88-90.
 49. **Dang Z.C.**, Jiang L.Y. and Li Y.Q. The Combined Effects of Ca, PH, And Salinity on the Hatching Percentage of the Artemia Cysts, *Marine Environmental Science*, 1992, 11(2): 18-23.
 50. **Dang Z.C.** Highlight Threat to the Ocean, *Marine Information*. 1991, 7, 28-29.
 51. **Dang Z.C.**, Qin Q.Q., Jiang L.Y. and Li Y.Q. The Study of Influence of Soda Plant Effluent on Several Marine Organisms, *Soda Industry*. 1989, 3, 15-21.

52. Dong B.X. Lin T.X. Jiang L.Y. **Dang Z.C.**, Li Y.Q. Tolerance Experiment of Marine Organisms to Temperature Rise, *Marine Environmental Science*. 1989, 8, 1-7.
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Publicly available reports

- De Knecht J.A., Marinković M., and **Dang Z.**, 2021. Innovating the integration of ecological and human health Risk Assessment: Connecting concepts and cases (IRAC) - Identification phase, parallels and integration., RIVM letter report 2020-0010, 1-124.
- Waaijers-van der Loop, S.L., **Dang Z.C.**, Rorije E., Janssen N., 2019. Toxicity screening of potential bio-based Polar Aprotic Solvents (PAS), 1-40.
- **Dang Z.C.**, Smit E., van Vlaardingen P. Moermond C, and Bodar C., 2016. Endocrine disrupting chemicals within EU legal frameworks: environmental perspectives. 2016-0145, 1-40.
- Graven C., **Dang Z.C.**, Piersma A.H, and Hakkert B, 2016. Endocrine disrupting chemicals within EU legal frameworks: human health perspectives. 2016-0137, 1-50.
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- **Dang Z.C.** and Smit C. E. Environmental risk limits for carbendazim, *RIVM Letter report 601716014/2008*, 2008, 1-35.
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Projects risk assessment of chemicals OECD test guidelines ECHA framework contract

Memberships Member, EFSA Working Group _ WG _ PREV _ Endocrine disrupting properties of pesticide active substances on humans and non_target organisms. 2021 Member, OECD VMG ECO, 2010 present Member, OECD VMG NA, 2011—present Member, OECD EDTA AG, 2010—present Member, EU Expert Advisory Group on Endocrine Disruptors, 2011_2013 The Society for Experimental Biology (1998_1999) The European Society for Comparative Endocrinology (1998_2000) The Dutch Society for Calcium and Bone Metabolism (2000_2003) American Society for Bone and Mineral Research (2000_2004) American Society of Diabetes (2003) The Society of Environmental Toxicology and Chemistry (1997_1998, 1999_2000, 2010_2011, 2012_2013) The Society of Toxicology

(2011_present) The Dutch Society of Toxicology (2009, 2014_present) The Chinese Society of Toxicology (2008_present)

Other Relevant Information

Patents • Schoenmakers I, Dang Z.C., Lowik, C., Lambertus A., van Helvoort, A., Hageman R., and van Gros M. Method of treating mammals with genistein and/or genistein US 2005/0090457 A1(patent), 28 Apr. 2005 • Schoenmakers I, Dang Z.C., Lowik, C., Waltherus, G.M., van Helvoort, A., and Bertholdus, L. Use of genistein in the manufacture of a medicament for the treatment of osteoporosis and obesity, and compositions containing genistein in combination with vitamin D and K, World Intellectual Property Organization, international publication number: WO 03/068218 A1 (patent), 10 Nov. 2004.