

# Curriculum Vitae

Last name, First name: Koehler, Almut

Gender: female

Nationality/ies: Germany

## Overall Scientific Expertise:

After studying veterinary medicine, I focussed on endocrinology / molecular biology of chicken. I received my Ph.D. for that work (performed at the Federal Research Institute of Agriculture in Celle), by the University of Veterinary Medicine in Hannover. After two years in this field as a Post-Doc I moved to Karlsruhe Institute of Technology (KIT) for working with aquatic organisms (Xenopus and Zebrafish) in 2002 in developmental biology. I was deputy manager of the animal facility there and was responsible for animal welfare. Starting 2014 I'm working and publishing as Central Animal Welfare Officer of the KIT.

## Professional Experience

Years employed from – to	Title of position	Employer – name and location	Areas of professional specialisation
2014 - today	Central Animal Welfare Officer	Karlsruhe Institute of Technology (KIT), Karlsruhe / Eggenstein-Leopoldshafen, Germany	Biology: Animal Welfare, Animal Experiments, mainly Zebrafish
2004-2015	Deputy Facility Manager of Xenopus Husbandry	Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany	Biology: Animal Welfare, Animal Experiments, Xenopus
2011 - 2015	Project Manager Biological Safety	Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany	Biology: Biotechnology
2002 - 2014	Post-Doc and PI	Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany	Biology: Developmental Biology, Cancer Research with Xenopus, Zebrafish
2000 - 2002	Post-Doc	Federal Research Institute for Agriculture, Celle, Germany	Biology: Endocrinology

### Specific expertise in the field of the call

- Central Animal Welfare Officer of KIT that houses the **European Zebrafish Resource Centre** together with 3 large Zebrafish facilities and a big Medaka facility. The total capacity is 400.000 fish.
- Co-organizer of the FELASA-certified **International Zebrafish and Medaka Course (IZMC)** held at the KIT six times a year.
- Organizer of an international workshop at the KIT about **Euthanasia methods in Zebrafish** in 2017 – Publication in *Zebrafish* 2017
- Participant of a national workshop of the Federal Institute for Risk Assessment (BfR)/ National Animal Welfare Committee about **Evaluation of adverse phenotypes in fish**. Publication in EMBO in 2016.
- Co-organizer of a national workshop at the KIT about **Evaluation of adverse phenotypes in fish** in 2015.
- Several publications about Anaesthesia and Euthanasia of fish
- Member of Working Group of the FELASA about Severity Classification in Zebrafish
- ORCID iD: 0000-0002-7575-0602
- Researchgate Profile: <https://www.researchgate.net/profile/Almut-Koehler>

### Educational Background

Year	Degree awarded	Educational Institution – name and location	Areas of educational specialisation
1996-2000	Ph.D.	University of Veterinary Medicine, Hannover, Germany / Federal Research Institute for Agriculture, Celle, Germany	Postgraduate
1990-1996	Certificate of Veterinary Medicine (MD)	University of Berlin (Freie Universität), Germany / University of Veterinary Medicine, Hannover, Germany	Veterinary Medicine

### Memberships in Scientific Advisory Bodies/Committees/Panels (*if any*):

- Advisory Panel of the regional responsible Authority for Animal Experiments
- Expert panel of the German Institute of Risk Assessment – National Animal Welfare Committee
- Expert Panel of the education of biotechnicians at the regional Chamber of Commerce and Industry
- Working Group of the FELASA about Severity Classification in Zebrafish

### Memberships in Learned Societies (*if any*):

- GV-Solas (German Society for Laboratory Animal Science)
- TVT (Veterinary Society for Animal Welfare)
- ESLAV (European Society for Laboratory Animal Veterinarians)
- GfE (German Society for Developmental Biology)

### Memberships in Editorial Boards (*if any*):

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## List of Publications:

14 journal articles  
3 book chapters  
1 book

## RELEVANT PUBLICATIONS

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Thiele W, Kyjacova L, **Köhler A**, Sleeman JP. A cautionary note: Toxicity of polyethylene glycol 200 injected intraperitoneally into mice. *Laboratory Animals*. 2020;54(4):391-396.

**Almut Köhler**, Chereen Collymore, Karin Finger-Baier, Robert Geisler, Larissa Kaufmann, Kieran C. Pounder, Stefan Schulte-Merker, Ana Valentim, Zoltan M. Varga, Jürgen Weiss, and Uwe Strähle. Report of Workshop on Euthanasia for Zebrafish—A Matter of Welfare and Science. *Zebrafish*. 2017.547-551.

Robert Geisler, **Almut Köhler\***, Thomas Dickmeis, Uwe Strähle. Archiving of zebrafish lines can reduce animal experiments in biomedical research. *EMBO rep*. 2017, 18: 1–2. doi:10.15252/embr.201643561

Bettina Bert, Justyna Chmielewska, Sven Bergmann, Maximilian Busch, Wolfgang Driever, Karin Finger-Baier, Johanna Hößler, **Almut Köhler**, Nora Leich, Thomas Misgeld, Torsten Nöldner, Annegret Reiher, Manfred Schartl, Anja Seebach-Sproedt, Thomas Thumberger, Gilbert Schönfelder, Barbara Grune. Considerations for a European animal welfare standard to evaluate adverse phenotypes in teleost fish. *EMBO J*. 2016; 35:1151-1154. doi: 10.15252/embj.201694448.

**Almut Koehler**, Judith Schlupf, Martina Schneider, Bianca Kraft, Claudia Winter, Jubin Kashef: Loss of *Xenopus* cadherin-11 leads to increased Wnt/ $\beta$ -catenin signaling and up-regulation of target genes *c-myc* and *cyclin D1* in neural crest. *Dev. Biol*. 2013; 383, 132-145.

Alexander Körner, Wasim Abuillan, Christina Deichmann, Fernanda F Rossetti, **Almut Köhler**, Oleg V Konovalov, Doris Wedlich, Motomu Tanaka. Quantitative Determination of Lateral Concentration and Depth Profile of Histidine-Tagged Recombinant Proteins Probed by Grazing Incidence X-Ray Fluorescence. *J. Phys. Chem. B* 2013; 117, 5002-5008.

Alexander Körner, Christina Deichmann, Fernanda F. Rossetti, **Almut Köhler**, Oleg V. Konovalov, Doris Wedlich, Motomu Tanaka. Cell Differentiation of Pluripotent Tissue Sheets Immobilized on Supported Membranes Displaying Cadherin-11 *PLoS ONE* 02/2013; 8(2):e54749.

Barbara Jung, **Almut Köhler**, Alexandra Schambony, Doris Wedlich. PAPC and the Wnt5a/Ror2 pathway control the invagination of the otic placode in *Xenopus*. *BMC Dev. Biol*. 06/2011; 11:36.

Jubin Kashef, **Almut Köhler**, Sei Kuriyama, Dominique Alfandari, Roberto Mayor, Doris Wedlich. Cadherin-11 regulates protrusive activity in *Xenopus* cranial neural crest cells upstream of Trio and the small GTPases. *Genes Dev*. 2009; 23: 1393-1398. (**shared first authorship**)

## RELEVANT BOOK CHAPTERS

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**Almut Koehler**, Ana Valentim. Analgesia, anesthesia, and euthanasia in zebrafish. In: L. d'Angelo, P. de Girolamo (eds.) *Laboratory Fish in Biomedical Research*. 2021; 119-137.