

1 Supplement:

2 Zebrafish (*Danio rerio*) larvae as a predictive model to study
3 gentamicin-induced structural alterations of renal organs

4
5 Jan Stephan Bolten¹, Christine Tanner², Griffin Rodgers², Georg Schulz², Soledad Levano³,
6 Timm Weitkamp⁴, Samuel Waldner¹, Ramya Deepthi Puligilla¹, Daniel Bodmer³, Bert Müller²,
7 Jörg Huwyler^{1*}

8
9
10 ¹ Department of Pharmaceutical Sciences, Division of Pharmaceutical Technology, University
11 of Basel, 4056 Switzerland

12 ² Biomaterial Science Center, University of Basel, 4056 Switzerland

13 ³ Department of Biomedicine, University Hospital Basel, 4056 Switzerland

14 ⁴ Synchrotron SOLEIL, Gif-sur-Yvette, 91190 France

15
16
17 Submission: Toxicological Sciences

18 Running head: Gentamicin-induced nephrotoxicity

19
20
21 *Corresponding author:

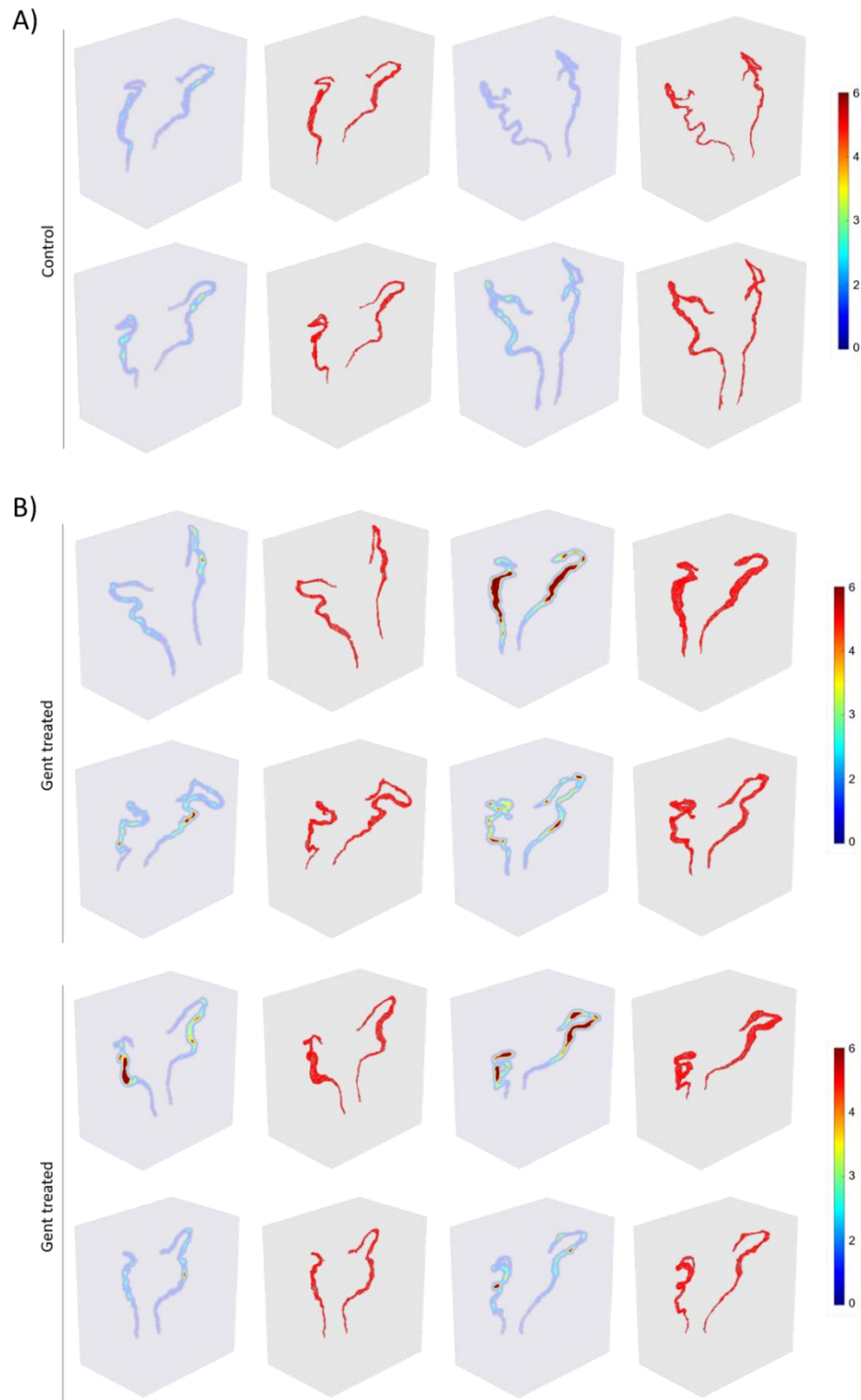
22 Jörg Huwyler, PhD

23 Professor of Pharmaceutical Technology

24 University of Basel, Department of Pharmaceutical Sciences

25 Klingelbergstrasse 50, CH-4056 Basel, SWITZERLAND

26 joerg.huwyler@unibas.ch



27

28 **Supplementary Figure 1: 3D reconstruction and quantification of four control and eight**
 29 **gentamicin-treated ZFL pronephros.** (A) The colour-coding heat map indicates the tubules'
 30 diameter of the luminal area (blue: 0 μm ; dark red: 6 μm). Rendered renal tubules of the
 31 control group are shown in red colour. (B) Same visualization as in (A), but renal tubules of
 32 gentamicin treated ZFL are shown.

33