

# Microtomographic investigation of a large corpus of cichlids

This manuscript ([permalink](#)) was automatically generated from [habi/EAWAG-manuscript@d412ae4](#) on June 30, 2022.

## Authors

---

- **David Haberthür**

 [0000-0003-3388-9187](#) ·  [habi](#) ·  [habi](#)

Institute of Anatomy, University of Bern, Switzerland

- **Mikki Law**

None

- **Kassandra Ford**

None

- **Marcel Häsler**

None

- **Ole Seehausen**

None

- **Ruslan Hlushchuk**

Institute of Anatomy, University of Bern, Switzerland

# Abstract

---

A large corpus of fishes spanning a size range of 6 to 20 cm was nondestructively assessed using micro-computed tomography.

# Introduction

---

## History

- Cichlids from Lake Victoria
- Sample 'library' of EAWAG
- Valuable, hence non-destructive imaging is *paramount*

## microCT

- Nondestructive imaging of a diverse kind of samples
- Ideal method to provide insight into *these* samples

# Materials and Methods

---

## Preparation of fishes

- Collection
- Storage in 75% Ethanol.

## microCT imaging

- Scanned on the 1272 (some fishes) and the 2214 (most of the fishes)

## Data analysis

### Preparation for analysis

- Python code in Jupyter, which is freely available: <https://github.com/habi/eawag>
- Automatic dissemination/copying of data to the relevant

### Extraction of OJ and PJ

- Details needed from Mikki on how she did it exactly

# Results

---

- A lot of fishes
- A lot of scans
- A lot of data

## Discussion

---

The discussion of the results and the outlook to what we'll do in the future is going into this file here.

# References

---