Isolation of chicken liver DNA (Image courtesy: M. Kradolfer).

# TOXICOLOGY

Contributing knowledge to improve human health and disease prevention strategies.

**Research Areas**

- Food mutagenesis;
- In vitro toxicity testing and biomarkers;
- Gut microbiota and toxicity;
- Mitochondrial toxicity.

**Regions**

Switzerland, Europe, USA, and global.

**Partners**

NTNU, Norway; University of Basel; University of Minnesota, Twin Cities; Netherlands National Institute for Public Health and the Environment (RIVM), Bilthoven; University of Guelph; United States Environmental Protection Agency (EPA), Washington DC; University of Lethbridge; Bundesinstitut für Risikobewertung (BfR), Berlin; Institute for Materials Science and Technology (Empa), Dübendorf; University of Kaiserslautern; University of Auckland; and University of New South Wales, Sydney.

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**Contribution to the WFSC**

The Laboratory of Toxicology contributes knowledge regarding how components of the human diet impact chronic disease risk and treatment. The modern chemical and biochemical analytical approaches de-veloped in the lab, and the fundamental understanding of mechanisms of toxicity, may be linked with applications for promoting food safety.

Prof. Shana Sturla