

SPiRiT Summer School “Molecular genetics in Zoology”

September 18th to 22th 2023

	Monday	Tuesday	Wednesday	Thursday	Friday	
9	Introduction (Bucher)	Lecture: NGS - differential expression (Posnien)	Lecture: Transgenesis (Wimmer)	Poster speed dating	Symposium	
10	Lecture: RNAi (Bucher)	In silico work: NGS: Mapping & differential expression (Posnien)	Workshop (rptd) - CRISPR strategies - Constructs for transgenesis			Workshop - dsRNA production
11	Group work and discussion: RNAi experiments (Bucher)					
12	Lecture: Genome editing (Terblanche)					
13	Group work and discussion: Genome editing (Terblanche)	Lecture: NGS - assembly (Posnien)	Lecture: In situ hybridization (Jackson)	Symposium		
14	In silico work: CRISPR/Cas9 guide design (Terblanche)		Workshop In situ hybridization		Consulting	
15	Microinjections I: Insect embryos (2 species)					Workshop - CRISPR strategies - Constructs for transgenesis
16		Microinjections II: Postembryonic 3 stages (larvae/pupae/adult)	Consulting (optional)			
17	Joint order of pizza				Enjoy Göttingen!	
18	Microinjections II: Larvae/pupae/adult (one stage)	Lecture: Genes and Orthology (Bleidorn)	Speaker's dinner German food at Hotel Weender Hof (Teachers and invited speakers)	Poster session With finger food and beer		
19					Microinjections I: Insect embryos (1 species)	
20	Get together With Bier & Brezl					

Poster speed dating: Present your poster and profit from questions, discussion and suggestions by external expert (4 parallel groups, max 25 min per Poster)

Consulting: Preparation: Develop the specifics of an experiment that you want to perform - then approach a teacher to discuss the project design.

Organizers: Vera Terblanche, Gregor Bucher

Teachers: Christoph Bleidorn, Gregor Bucher, Daniel Jackson, Nico Posnien, Vera Terblanche, Ernst Wimmer

Tutors: Hassan Ahmed, Bibi Attika, Claudia Hinners, Georg Bullinger, Ying Pang, Lisha Zheng, Doga Cedden