

Worked well:

- Setup a **fundamental instrumental infrastructure** for the Munich network
- Origins was instrumental to obtain rooms
- **International links** using the infrastructure
- LabView programming directly **analyzing the raw data**
- Setup N2 supply now infrastructure (only finished since 3 weeks)
- Helping with Origins to **rescue the Sequencing Lab** at Gene Center, co-funding 1/2TA
- Put calorimeters where they are used in the Boekhoven lab
- Flexible **deep UV laser setup** by Prof. Wolfgang Zinth
- IDSL was **instrumental to attract young scientist** (Corinna Kufner)
- **Workflow for sequencing established** and offered as service
- Managed to fill in **TA position** with Ukraine chemist (Alina Gorlova)
- Will be important infrastructure for future **CRC Molecular evolution** proposal

Aspects to improve:

- More usage by different labs and **increase international collaborations**
- Needed a lot of time to buy investments, we needed a dedicated Hiwi student

New directions:

- Possible to use **pore sequencing** for short RNA without translation, by reading raw data, offering flexible analysis. Would suggest to **buy pore sequencing** machine for Origins II
- Automated microscope with **environmental control** similar to planet simulator to explore wet-dry cycles by humidity cycling, simulating a prebiotic day
- Augmented thermal management in the IDSL room, **overheating** in the small room, not allowing all TOFs to run at the same time.
- Look for instrumental **support and connections to Geoscience**, already here is for example a MALDI imaging adapter for use with rock samples.