



Magdeburg Molecular Detections

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module 4

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Structural concepts



**medical,
microbiological and
molecular laboratories**

Structural Concepts

SERVICES

We support the medical facilities in the planning, implementation and operating phase with regard to medical, microbiological and molecular laboratories:

- **planning the intricate details of a variety of different functional areas**
- **determining the extensive equipment requirements**
- **planning for the delivery of future clinical service**
- **providing health care services at "world class standards."**
- **training for the Center staff to ensure they can fully utilize the technologies**
- **project planning becomes increasingly detailed, to serve on the project implementation team.**

Structural Concepts

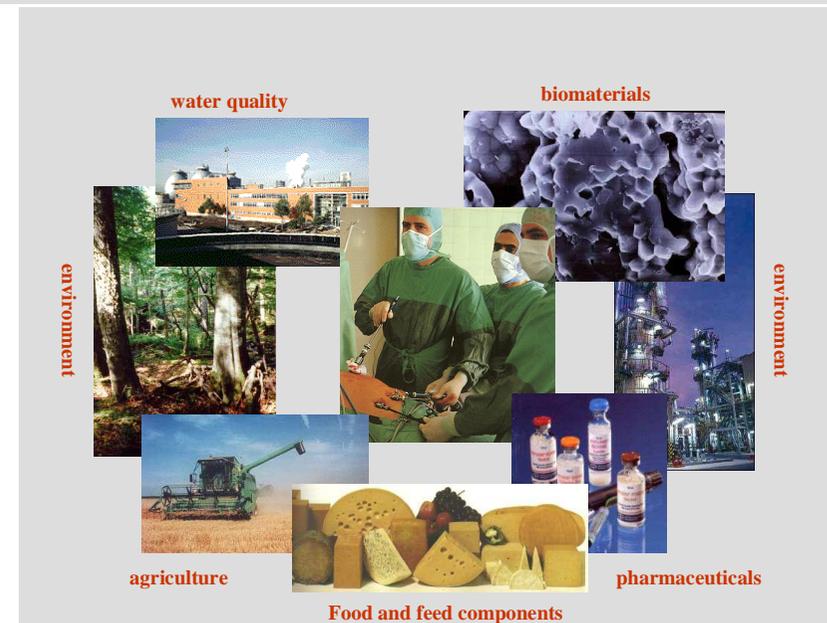
PLANNING PHASE

In detail, we develop concepts according to the following questions:

Which service areas are expected ?

- clinical chemistry
- pathology
- microbiology
- immunology
- genetics
- pharmacology
- epidemiology
- public health

- new ideas ?

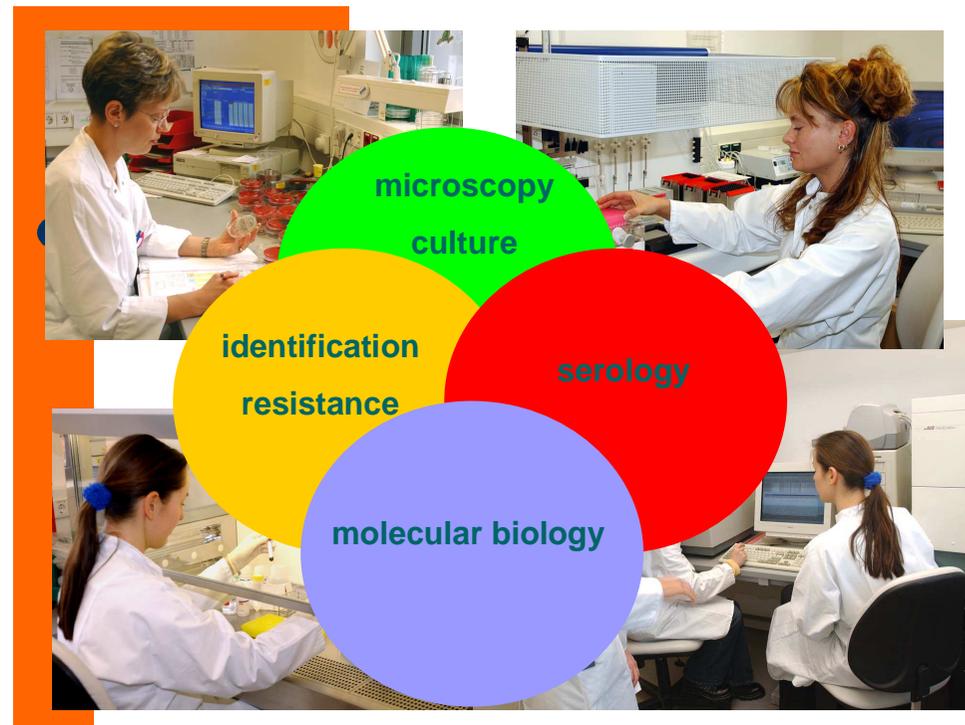


Structural Concepts

PLANNING PHASE

We develop concepts according to the following questions:

Which analytical tasks are necessary in each area, e. g. in a microbiological lab ?



Structural Concepts

PLANNING PHASE

We develop concepts according to the following questions:

Which is the „best practice“ in each area ?

Which technical equipment do I need, e. g. in „simple“ medical microbiology?



PCR-machine



PHOENIX
Becton Dickinson



DNA-ARRAY

MALDI-TOF

microscope



VITEK II
BioMerieux



ALL ? !



Structural Concepts

PLANNING PHASE

We also develop concepts according to the following questions:

Which consequences follow from the precalled points for the spatial planning of the lab?

Examples ? ... thousands!

Structural Concepts

PLANNING PHASE

In summary, we offer

- definition of the equipment components (physical and personnel) of a medical, microbiological and molecular-biological institute.
- definition of the work flow of a medical, microbiological and molecular-biological institute integrated into a medical centre and her repercussions on the architectural concept of the medical centre.

Structural Concepts

OPERATING PHASE

- Consultation and training of staff in the service of microbiological and molecular-biological systems
- Consultation about the choice and realisation of microbiological and molecular-biological investigations
- Development and realisation of microbiological and molecular-biological procedures in common and special cases (e. g., individualised diagnostics and therapy)
- Consultation with the hygiene management