



Excellent project



Title:	Typing and documentation of micro-organisms (outstanding VL4 or VL5M students)
Vacancy:	One Life Science student (VL5M level; alternatively outstanding at VL4 level)
Credits:	Excellent star after consultation (e.g. gedrevenheid of vakbekwame en reflectieve professional)
Assessment:	Final assessment will be based on proceedings in typing micro-organisms and design and management of a new database
Required skills:	Affinity and proficiency in Medical Microbiology
Location:	Heidelberglaan 7, Utrecht
Contact person:	John Bouwman

Background information:

For Microbiology teaching purposes (semester 4 and 5) the Microbiology section of the Institute for Life Sciences ILC provides and maintains a collection of microorganisms. Occupational health and safety regulations require an appropriate management system (database) in which characteristics and origin of the microorganisms used are documented adequately. The system we now use does not meet current regulations.

Objective:

In order to establish a detailed database in which the properties and characteristics of all micro-organisms that are used in the current microbiology lab classes are accurately documented. This is of paramount importance for the ILC in order to preserve and secure the safe use of well characterized micro-organisms.

Approach:

At first, the student will have to make an initial inventory of the current microorganism library. Subsequently all microorganisms have to be recultivated and characterized. Of each bacterial strain a biochemical profile (biotype) and an antibiotic susceptibility profile have to be performed. The obtained data will be recorded in a newly designed database to ensure that all relevant data can be retrieved at any time. In addition, virus strains present will be re-grown in cell cultures and the relevant data are also included in the new system.

Applicant profile:

The applicant is preferably an enthusiastic and motivated microbiology student in semester VL5M (alternatively VL4) or has demonstrable affinity with medical microbiology. The student is proficient in a broad range of microbiological culture and determination techniques. Good laboratory skills, creativity and a critical attitude in capturing and documenting the appropriate data are therefore required.

Additional information:

Are you interested in this project, please feel free to contact me at any time.

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