Course Specifications
Valid as from the academic year 2015-2016

Capita Selecta in Medical Genetics (D000519)

Course size (nominal values; actual values may depend on programme)

<table>
<thead>
<tr>
<th>Credits</th>
<th>Study time</th>
<th>Contact hrs</th>
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<tr>
<td>4.0</td>
<td>120 h</td>
<td>15.0 h</td>
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Course offerings and teaching methods in academic year 2018-2019

A (semester 1) Dutch lecture 15.0 h

Lecturers in academic year 2018-2019

Coucke, Paul GE02 lecturer-in-charge

Offered in the following programmes in 2018-2019

| Master of Science in Speech Language and Hearing Sciences (main subject Audiology) | 4 | A |
| Master of Science in Speech Language and Hearing Sciences (main subject Audiology) | 4 | A |
| Master of Science in Speech Language and Hearing Sciences (main subject Logopaedics) | 4 | A |
| Master of Science in Speech Language and Hearing Sciences (main subject Logopaedics) | 4 | A |

Teaching languages

Dutch

Keywords
genetics heredity genotype phenotype chromosomes

Position of the course

This course offers a background for a good grasp of genetically determined disorders and syndromes, since several of those can have an impact on speech, language and hearing.

Contents

- Introduction: from Mendel to the Human Genome Project
- Chromosomal heredity
- Genetic abnormalities of autosomes and gender chromosomes
- Monogenic heredity
- Introduction into molecular genetics
- Mutations in the human genome
- Multifactorial heredity (e.g. cleft lip & palate)
- Dysmorphology
- Microdeletion syndromes
- Congenital deformities of the face and the speech organs
- Inheritable hearing loss
- Prenatal diagnosis

Initial competences

Final competences

1. Knowledge and insights in the chromosomal genetics and related disorders.
2. Knowledge and insights in the different modes of inheritance.
3. Knowledge and insights in molecular genetics and related disorders.
4. Knowledge and insights in the genetic disorders related to speech and hearing.
5. Knowledge and insights in prenatal analysis of genetic disorders.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

(Approved)
Conditions for exam contract
   Access to this course unit via an exam contract is unrestricted

Teaching methods
   Lecture

Learning materials and price
   Course notes bundle, handouts from powerpoint presentations

References

Course content-related study coaching

Evaluation methods

Examination methods in case of periodic evaluation during the first examination period
   Written examination with multiple choice questions

Examination methods in case of periodic evaluation during the second examination period
   Oral examination

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation
   not applicable

Extra information on the examination methods
   Extra assignments may be given during the course period and will weigh on the final score.
   Written preparation before oral exam (second examination period)

Calculation of the examination mark
   Exam results = final score, however, extra assignments may be given during the course period and will weigh on the final score.