

Shuxia Li

Epidemiology, Biostatistics and Biodemography

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## Teaching Portfolio

### 1. Pedagogical training

- 2018: Introduction to teaching at SDU – for new teachers
- 2018 January: Oral examination in higher education in Denmark
- 2018 January: Interactive lecturing

### 2. Experience in teaching and supervision

- 2018 April: group classes of MODUL 3 - Population Genetics for medical students
- 2018 November: group classes of MODUL 3 - Population Genetics for medical students
- 2018 April-June: consummate master's theses (30 ECTS) of medical student
- 2018 September-2019 June: consummate master's theses (60ECTS) of biomedicine student
- 2019 November: group classes of MODUL 3 - Population Genetics for medical students

### 3. Fundamental pedagogical view, methods, materials and tools

During the teaching experience of "Population Genetics" for medical students in SDU, I have combined my over 10 years teaching experience of Biochemistry for medical students in Shandong Medical College in China with the new knowledge in molecular genetics and genetic epidemiology to the teaching on topics of family inheritance of genetic disorders, modes of inheritance, risk assessment and probability estimates, etc. For medical students, these concepts e.g. mathematical aspects of gene inheritance are usually difficult to understand. Instead of text- and formula-based teaching, I always use illustrations whenever possible to help the students to understand the genetic concepts and patterns of genetic transmission. As an example of conditional probability of genetic transmission, I use table illustration for the steps in calculating a posterior probability based on the knowledge of the conditional probability and of the prior probabilities. This is highly efficient and much easy to understand for student to learn the concept and its applications.