

SS 2011 Frontiers in Virology

The course builds on the previous course “Principles of Virology” (see www.univie.ac.at/medbch/Lectureplan2009wien.pdf) and is designed to illustrate current topics of cutting edge research into virology. The themes are built around viruses receiving publicity at the moment such as influenza virus and HIV. Concepts introduced will include quasispecies, viral dynamics, R_0 (a measure of viral infectivity) and hypotheses on the origin of human infectious diseases. Emphasis will be on mechanisms of viral evolution and its effect on pathogenesis and the course of disease. This course is once again certainly **not** be a list of viruses and their diseases!

The course has the number 300460 from the University of Vienna.

You do not need to register for this course. The notes for this course will be **available** on the internet (www.univie.ac.at/medbch) a few days before each lecture..

Tim Skern, March 2011

1st Lesson: Monday, 28th March, further dates, see below.

Exam: to be fixed, will appear in UniVis

Time: 17.00 – 18.30

Place: Lecture room of the Inst. f. Biomol. Structural. Chemistry, Campus Vienna Biocenter 5, 1030 Vienna

Date	Topic
Mon, 28th March	Quasispecies: Viruses and Darwin
Mon, 4th April	Quasispecies: Viruses and Darwin II
Mon, 9th May	No course
Mon, 16 th May	Avian influenza virus
Mon, 23 rd May	Past and future influenza pandemics
Mon, 30 th May	HIV: so many questions, any answers? I
Mon, 6 th June	HIV: so many questions, any answers? II
Mon, 20 th June	Future frontiers