

**Evolution Workshop EEID 2009 May 17-20, 2009**  
Rm. 372 Miller Learning Center, University of Georgia

**Instructors:**

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**Roman Biek, University of Glasgow**, r.biek@bio.gla.ac.uk

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**Sunday, May 17**

**8:30 AM**                      **Roll Call and Introduction (Rm. 350 Miller Learning Center)**

**9:00 -10 AM**                **R-tutorial Sections 1-4. (Rm. 372 Miller Learning Center)**

**10 AM – 12 Noon**        **R tutorial sections 4 (Vectors), 5 (Generating Random Numbers), 6 (The Matrix), 7 (the Loop), 9 (Functions), 10 (ODEs)**

**12:00 – 1:00 PM**        **Lunch (provided)**

**1:00 – 1:30 PM**        **Overview of Evolution Workshop**

**1:30 – 2:00 PM**        **Student Groups: Projects and data sets**

**2:00 - 3:00 PM**        **Data types, sequence alignments (Mike)**

**3:00 PM**                    **Break**

**3:15 – 5:00 PM**        **Projects: formatting data and formulating hypotheses (finish up R-tutorial)**

**Monday, May 18**

**8:30 AM – 12 Noon**    **Modeling Adaptive Processes in Pathogens (Colleen)**

**12:00 – 1:00 PM**        **Lunch (provided)**

**1:00 – 2:00 PM**        **Student Group Initial Presentations**

- Propose possible questions/analyses

**2:00 – 5:00 PM**        **Population Genetic Analyses of Pathogens (Mike)**

- Population genetic structure of pathogens
- Using assignment probabilities for pathogen data

**Tuesday, May 19**

**8:30 AM – 12:00**      **Estimating and interpreting phylogenies, ancestral states and coalescent models (Roman)**

**12:00 – 1:00 PM**      **Lunch (provided)**

**1:00PM – 5:00 PM**      **Student Groups**  
• Work, work, work.

**Wednesday, May 20**

**8:30 – 3:00 PM**      **Student Groups**  
• Work, work, work.

**12:00 – 1:00 PM**      **Lunch (provided)**

**3:00 – 5:00 PM**      **Student Presentations**  
• 10 minutes per group to present results at the end