

# 2<sup>nd</sup> Brazilian Stereology Course

## July 30<sup>th</sup> – August 2<sup>nd</sup>, 2007

### Sao Paulo, Brazil

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#### Monday 30<sup>th</sup>

09.00 - 09.05           Welcome  
 09.05 - 11.00           Presentation of projects by participants  
 11.00 - 11.15           Coffee  
 11.15 - 12.00           Lecture: Definition of probes, sampling and basic statistics  
 12.00 - 13.00           Lunch  
 13.00 - 13.45           Lecture: Volume estimation, absolute and fractional  
 13.45 - 14.45           Exercise: Volume estimation, Cavalieri principle  
 14.45 - 15.30           Lecture: The fractionator principle (systematic sampling)  
 15.30 - 16.00           Coffee  
 16.00 - 16.45           Exercise: The fractionator  
 16.45 - 17.30           Lecture: The disector, counting and sampling in 3D  
 17.30 - 18.15           Exercise: Number estimation  
 19.00 -                 Dinner and Get-together-party

#### Tuesday 31<sup>st</sup>

09.00 - 09.45           Lecture: Length and Surface, IUR  
 09.45 - 10.45           Exercise: Length estimation  
 10.45 - 11.15           Coffee  
 11.15 - 12.00           Lecture/demonstration: Slicing, tools and gadgets  
 12.00 - 14.00           Lunch  
 14.00 - 15.00           Lecture: More disector sampling, including connectivity  
 15.00 - 16.00           Exercise: Connectivity  
 16.00 - 16.30           Coffee  
 16.30 - 17.30           Lecture: How many animals? Optimizing sampling  
 19.00 -                 Dinner

#### Wednesday 1<sup>st</sup>

09.00 - 09.45           Lecture: Vertical sections  
 09.45 - 11.15           Exercise: Surface from vertical sections  
 11.15 - 11.30           Coffee  
 11.30 - 12.15           Lecture: Sampling and Sizing of particles  
 12.15 - 14.00           Lunch  
 14.00 - 15.00           Exercise: The nucleator  
 15.00 - 15.45           Lecture: Ratios vs. absolute quantification - the reference trap  
 15.45 - 16.15           Coffee  
 16.15 - 17.15           Exercise: Point sampled intercepts  
 17.15 - 18.00           Lecture: Study-design in Stereology  
 18.00                   Dinner

#### Thursday 2<sup>nd</sup>

09.00 - 9.45           Lecture: Quantitation of TEM Immunogold label  
 09.45 - 10.30           Exercise: Quantitation of TEM Immunogold label  
 10.30 - 10.45           Coffee  
 10.45- 15.00           Separate programmes including lunch for  
                           Placental Stereology  
                           Neurostereology  
                           Lung stereology  
 15.00 -15.45           newCast demonstration  
 15.45 -16.15           Coffee  
 16.15 - 16.45           All size estimators together and shrinkage  
 16.45 - 17.45           Presentation of participants projects  
 17.45 - 18.15           Conclusion of the Course  
 19.00 -                 Farewell dinner

Participants: please bring a calculator, a pair of scissors, a sharp fruit knife and a ruler

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