Visiopharm Academy
Image Analysis - Beginners

Prerequisites: No prerequisites

Day 1

09:00  Introduction
       Lecture
       • Presentation to course and tools

09:15  General introduction to VIS
       Lecture & Exercise
       • General navigation in VIS
       • Layer drawings
       • Running APPs

10:45  Coffee break

11:00  Introduction to APP Author
       Lecture
       • How to create an APP in VIS

12:15  Lunch

13:00  Introduction to APP Author (continued)
       Exercise
       • How to build a tissue detection APP

       Lecture & Exercise
       • Nuclei detection APPs

15:00  Coffee break

15:10  Batch processing & Result handling
       Lecture & Exercise
       • Running multiple APPs in multiple images
       • Viewing results in VIS

15:50  Q&A

16:00  End of day 1
## Visiopharm Academy
### Image Analysis - Beginners

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<table>
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<th>Time</th>
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<tr>
<td>09:00</td>
<td>Recap Lecture</td>
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| 09:15 | **APP Author: Classification** Lecture & Exercise  
  - Introduction to classification  
  - Deep Learning  
  - Threshold |
| 11:20 | Coffee break                                 |
| 11:30 | **APP Author: Post Processing and Output Variables** Lecture & Exercise  
  - How to clean up the labels using post processing  
  - How to create relevant outputs |
| 12:00 | Lunch                                        |
| 12:45 | **APP Author: Post Processing and Output Variables (Continued)** Exercises |
| 13:30 | **Training Labels for Deep Learning** Lecture & Exercise  
  - How to arrange your training data  
  - Manual labeling  
  - Continue training of Nuclei Detection, AI APPs. |
| 14:35 | Coffee break                                 |
| 15:00 | **Training Labels for Deep Learning (Continued)** Exercise  
  - Continue training of Nuclei Detection, AI APPs. |
| 15:30 | Course summary and Q&A                       |
| 16:00 | End of day 2                                  |