



# Visiopharm Academy

## Image Analysis - Beginners

**Prerequisites:** No prerequisites

**Day 1**

<b>09:00</b>	<b>Introduction</b> Lecture <ul style="list-style-type: none"><li>• Presentation to course and tools</li></ul>
<b>09:15</b>	<b>General introduction to VIS</b> Lecture & Exercise <ul style="list-style-type: none"><li>• General navigation in VIS</li><li>• Layer drawings</li><li>• Running APPs</li></ul>
<b>10:45</b>	<b>Coffee break</b>
<b>11:00</b>	<b>Introduction to APP Author</b> Lecture <ul style="list-style-type: none"><li>• How to create an APP in VIS</li></ul>
<b>12:15</b>	<b>Lunch</b>
<b>13:00</b>	<b>Introduction to APP Author (continued)</b> Exercise <ul style="list-style-type: none"><li>• How to build a tissue detection APP</li></ul> Lecture & Exercise <ul style="list-style-type: none"><li>• Nuclei detection APPs</li></ul>
<b>15:00</b>	<b>Coffee break</b>
<b>15:10</b>	<b>Batch processing &amp; Result handling</b> Lecture & Exercise <ul style="list-style-type: none"><li>• Running multiple APPs in multiple images</li><li>• Viewing results in VIS</li></ul>
<b>15:50</b>	<b>Q&amp;A</b>
<b>16:00</b>	<b>End of day 1</b>



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### Day 2

<b>09:00</b>	<b>Recap</b> Lecture
<b>09:15</b>	<b>APP Author: Classification</b> Lecture & Exercise <ul style="list-style-type: none"><li>• Introduction to classification</li><li>• Deep Learning</li><li>• Threshold</li></ul>
<b>11:20</b>	<b>Coffee break</b>
<b>11:30</b>	<b>APP Author: Post Processing and Output Variables</b> Lecture & Exercise <ul style="list-style-type: none"><li>• How to clean up the labels using post processing</li><li>• How to create relevant outputs</li></ul>
<b>12:00</b>	<b>Lunch</b>
<b>12:45</b>	<b>APP Author: Post Processing and Output Variables (Continued)</b> Exercises
<b>13:30</b>	<b>Training Labels for Deep Learning</b> Lecture & Exercise <ul style="list-style-type: none"><li>• How to arrange your training data</li><li>• Manual labeling</li><li>• Continue training of Nuclei Detection, AI APPs.</li></ul>
<b>14:35</b>	<b>Coffee break</b>
<b>15:00</b>	<b>Training Labels for Deep Learning (Continued)</b> Exercise <ul style="list-style-type: none"><li>• Continue training of Nuclei Detection, AI APPs.</li></ul>
<b>15:30</b>	<b>Course summary and Q&amp;A</b>
<b>16:00</b>	<b>End of day 2</b>