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| <b>Module</b>                            | <b>Computational Life Sciences Seminar</b>  |
| <b>Code</b>                              | MSLS_V5_8   |
| <b>Degree Programme</b>                  | Master of Science in Life Sciences (MSLS)   |
| <b>ECTS Credits</b>                      | 3   |
| <b>Workload</b>                          | 90 h (2 lessons per week - 30h contact, 60h self-study)   |
| <b>Module Coordinator</b>                | <p><b>Name</b> Dr. Victor Garcia</p> <p><b>Phone</b> +41 (0) 58 934 55 46</p> <p><b>Email</b> gara@zhaw.ch</p> <p><b>Address</b> ZHAW Zürcher Hochschule für Angewandte Wissenschaften<br/>Life Sciences and Facility Management<br/>Schloss 1<br/>CH-8820 Wädenswil</p>  |
| <b>Lecturers</b>                         | Various lecturers   |
| <b>Entry Requirements</b>                | There are no formal requirements, however, we encourage students to participate after completion of the second semester of their master studies.  |
| <b>Learning Outcomes and Competences</b> | <p>After completing the module, students will be able to:</p> <ul style="list-style-type: none"> <li>• Read and understand scientific texts in the field</li> <li>• Critically reflect on a text and put it on a broader context</li> <li>• Summarise and present a text</li> <li>• Initiate a discussion based on original thoughts and questions</li> <li>• Protocol/summarise such discussions</li> </ul>  |
| <b>Module Content</b>                    | We will treat important/classical papers that are --in a broad sense-- relevant for the field of computational life science.  |
| <b>Teaching / Learning Methods</b>       | <ul style="list-style-type: none"> <li>• Self study texts</li> <li>• Weekly seminar with presentations by students and discussions in plenum and in groups</li> <li>• Protocolling of discussions and report writing</li> </ul> <p>Specifically, each student will select a paper, read it carefully, and give a presentation in the seminar. Subsequently, (s)he will initiate a discussion in class and summarise the findings in a report or protocol.</p> <p>Further, prior to each presentation, all students are required to read the corresponding paper, and contribute in advance one discussion question per email.</p> |
| <b>Assessment of Learning Outcome</b>    | <p>Attendance is highly recommended.</p> <ul style="list-style-type: none"> <li>• a presentation in the seminar (~30min) with initiation of a discussion in class 70%</li> <li>• a report reflecting on the discussion 30%</li> </ul>   |
| <b>Bibliography</b>                      | Selected original papers  |

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| <b>Language</b>    | English    |
| <b>Comments</b>    |            |
| <b>Last Update</b> | 22.02.2022 |