## PhD programme in MOUNTAIN ENVIRONMENT AND AGRICULTURE

### Research projects and supervisors
(list of available projects to which priority will be given; topics in the short description of research groups may also be proposed as PhD projects)

<table>
<thead>
<tr>
<th>Curriculum 1 Sustainable agricultural production systems</th>
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<tbody>
<tr>
<td><strong>Title</strong></td>
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<tr>
<td>1. Adaptation strategies to climate change in viticulture</td>
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<td>2. Influence of grassland phytodiversity on livestock performance, behaviour and welfare</td>
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<td>3. Functional traits in local livestock breeds</td>
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<td>4. Smart Agriculture for mountain contexts</td>
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<td>5. Estimation of the forage quality of mountain permanent meadows based on environmental and management-related factors.</td>
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<td>6. Structure characterization and interaction chemistry - Advanced studies of phytoplasm effector proteins</td>
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### Curriculum 2: Ecology, environment and protection of mountain areas

<table>
<thead>
<tr>
<th><strong>Title</strong></th>
<th><strong>Supervisor(s)</strong></th>
<th><strong>Curriculum</strong></th>
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<tr>
<td>7. Molecular ecology and environmental chemistry as a tool for the cultural heritage conservation</td>
<td>Dr. L. Borruso</td>
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<tr>
<td>8. Integrating large scale monitoring networks to characterize cause-effect relationships of forests disturbances in mountain environments</td>
<td>Prof. R. Tognetti, Dr. E. Tomelleri, Prof. L. Montagnani</td>
<td>2</td>
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