EUGLOH
Work Package 3:
Research and Innovation

Prof. Dr. Ferenc Peták
Academic leader
University of Szeged
WP3 Research and Innovation

WP3 OVERALL OBJECTIVE:
Developing student skills by research and innovation through cross-disciplinarity

WP3 ACTIVITIES:
A3.1. Joint schools on research practices
A3.2. Study trips
A3.3. Joint innovation projects and challenges
A3.4. Annual student research conferences
A3.5. Multidisciplinary education programs focusing on innovation
A3.6. Development of transnational PhD co-tutelle
Activity A3.1. Joint schools on research practices

Year 2: 3 summer schools (USZ+UPSaclay+UPorto)
Year 3: 5 summer schools (USZ+UPSaclay+UPorto+LMU+ULund)

Concept:
• 5-day seasonal school – 5x8 hours → development of transversal skills
• Each partner: 2 teachers, ~12 students/school

Proposed topics:
• Szeged: Data processing: focus on life sciences
  – Ferenc Peták, Zoltán Gingl, László Nyúl, Péter Horváth, Krisztina Boda, Lajos Fülöp
  – UPSaclay: Bruno Falissard, Paul-Henry Cournède
• UPSaclay: Large scale facilities
  – Slavka Kascakova, Matthieu Refrigiers
Activity 3.2. Study trips

Year 1: Short-term (< 1 months): 6/partner; Long-term (> 2 months): 18/partner
Year 2: Short-term (< 1 months): 9/partner; Long-term (> 2 months): 27/partner
Year 3: Short-term (< 1 months): 12/partner; Long-term (> 2 months): 36/partner

Concept:

• **Short-term mobility:** observatory visits financed from the project

• **Long-term mobility:** financed from Erasmus+ mobility grants
  - adapt to semesters, involving research

• Each partner defines 4-5 labs/places to host the students for research work
  - Szeged: Cerebrovascular research, NMR platform, Lasers in applied sciences, Health economics / Food safety
A3.3. Joint innovation projects and challenges

**Year 1:** 5 projects Implementation, Seminars, 1 Competition

**Year 2:** 10 projects Implementation, Seminars, Competition

**Year 3:** 15 projects Implementation, Seminars, Competition

**Concept:**

- Multidisciplinary project related to global health
- The IP owner is the University (100%)
- The target group is located in the Partner’s countries

**Szeged:**
- Speech Gap Test – early detection of Alzheimer's disease
- Isolation of Lactobacillus from healthy vaginas to maintain normal vaginal flora
Activity A3.4. Annual student research conferences

Year 1: Annual student research conference (Szeged), April 22-24, 2020
Year 2: Annual student research conference (UPSaclay)
Year 3: Annual student research conference (Lund)

Concept:

- 9 sessions, 5 plenary lectures (1/each partner), ~60 students
- Evaluation committee: 10 members (2/each partner)
- Abstract submission, establish scientific program, preparation of conference booklet

Main topic Szeged: Diseases of modern life
A3.5. Multidisciplinary education programs focusing on innovation

Year 1: Innovation Days (LMU) - 2020 spring
Year 2: Innovation Days (UPSaclay)
Year 3: Innovation Days (Szeged)

Concept:

• Innovation days (3 days) - topics related to Global Health challenges
• Trainings and success stories
  – Innovation management
  – Knowledge and technology transfer
  – Intellectual property
• Start-up competition
  – Good practice from Szeged: Syllabus of last Innovation Week (May, 2019)
A3.6. Development of transnational PhD co-tutelle

Year 1: Map experiences, solutions and constraints for academic procedures

Year 2: Provide a handbook dedicated to administrative support to co-tutelle; dissemination of the handbook

Concept:

• To set up attractive and sustainable PhD co-tutelle opportunities with
  – common guidelines
  – double PhD framework agreements
## To do ...

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<tbody>
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<td><strong>Szeged</strong></td>
<td>Teachers ✓ Topics ✓</td>
<td>Topics&amp;labs ✓ Partners ✓</td>
<td>Challenges ✓ Mentors ✓</td>
<td>Lecturers ✓ Committee ✓ Students ✓</td>
<td>Topics ✓ (Innovation day 2019)</td>
<td>Set-up working groups (2/partner) Map current PhD co-tutelle agreements</td>
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<tr>
<td><strong>LMU</strong></td>
<td>Teachers ✗ Topics ✗</td>
<td>Topics&amp;labs ✗ (health, sports, food, environment sciences etc.)</td>
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<td><strong>Lund</strong></td>
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<td>Topics&amp;labs ✓ Partners ✓</td>
<td>Challenges ✓ Mentors ✓</td>
<td>Lecturers ✗ Committee ✗ Students ✗</td>
<td>Topics ✗ Contribution needs to LMU for the first event?</td>
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<td><strong>UPSaclay</strong></td>
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<tr>
<td><strong>General</strong></td>
<td>- Start coordinating student applications, Collection of abstracts (online) - Discussion of schedule</td>
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*Proposed deadline: December 15<sup>th</sup>, 2019*