**Partner’s info collection form**

Call/topic: **HORIZON-WIDERA-2025-01-ACCESS-01**

Proposal acronym: **SMART**

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# Administrative Info

|  |  |
| --- | --- |
| **PIC[[1]](#footnote-1): 999993953** | **Legal Name of entity: Alma Mater Studiorum - Università di Bologna**  **Acronym of legal entity: UNIBO** |
| **Country: Italy** | **Official Logo (high resolution):**  The University seal — University of Bologna |

# Departments carrying out the proposed work

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *The information serves mainly statistical purposes. For determining the eligibility of the proposal, the official address of the organisation is taken into account.*  **Department 1** | | | | |  |
| Department name | Department of Pharmacy and Biotechnology (FaBiT) | | | not applicable | |
|  | Same as organisation address | | |  | |
| Street | *Via Belmeloro 6* | | |  | |
|  | | | | | |
| Town | *Bologna* | | |  | |
|  | | | | | |
| Postcode | *40126* | |  | | |
|  | | | | | |
| Country | *Italy* | | |  | |
|  | | | | | |
| *Links with other participants*  *Please indicate if there are dependencies with other participants of the proposal.*  *Two participants (legal entities) are dependent on each other where there is a controlling relationship between them:*  *\* A legal entity is under the same direct or indirect control as another legal entity;or*  *\* A legal entity directly or indirectly controls another legal entity;or*  *\* A legal entity is directly or indirectly controlled by another legal entity.Control:*  *Legal entity A controls legal entity B if:*  *\* A, directly or indirectly, holds more than 50% of the nominal value of the issued share capital or a majority of the voting rights of the shareholders or associates of B, or*  *\* A, directly or indirectly, holds in fact or in law the decision-making powers in B.*  *The following relationships between legal entities shall not in themselves be deemed to constitute controlling relationships:*  *(a) the same public investment corporation, institutional investor or venture-capital company has a direct or indirect holding of more than 50 % of the nominal value of the issued share capital or a majority of voting rights of the shareholders or associates;*  *(b) the legal entities concerned are owned or supervised by the same public body.* | | | | | |  |
| ***Type of link*** | | ***Participant*** | | | |
| *[*Same group*]*  *[*Controls*]*  *[*Is controlled by*]* | | ***/*** | | | |

# Main contact person

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *It is the main scientist or team leader in charge of the proposal for the participant. For participant number 1 (the coordinator), this will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to negotiations). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in Step 4 of the Submission wizard.* | | | | | | | | | | | | | |
| Title: Associate Professor, Ph.D. | |  | | Gender: | | | | Woman | Man | | | | Non binary |
|  | | | | | | | | | | | | | |
| First name: Laura  E-mail: laura.mercolini@unibo.it | | | | | | Last name: Mercolini | | | | | | | |
|  | | | | | | | | | | | | | |
| Position in org. | | *Group leader* | | | | | | | | | |  | |
|  | | | | | | | | | | | | | |
| Department | | Dapartment of Pharmacy and Biotechnology (FaBiT) | | | | | | | | | | Same as organisation | |
|  | | | Same as organisation address | | | | | | | |  | | |
| Street | | Via Belmeloro 6 | | | | | | | | | |  | |
|  | | | | | | | | | | | | | |
| Town | | Bologna | | | | | | Post code | 40126 | | |  | |
|  | | | | | | | | | | | | | |
| Country | | Italy | | | | | | | | | |  | |
|  | | | | | | | | | | | | | |
| Website | | https://fabit.unibo.it/en/index.html | | | | | | | | | |  | |
|  | | | | | | | | | | | | | |
|  | Phone 1 | +39 0512099726 | | | Phone 2 | | +39 3396938996 | | |  | |  | |
| *Other contact persons* | |  | | |  | |  | | |  | |  | |
| **First name** | | **Last name** | | | | | **e-mail** | | | | | **Phone** | |
| / | | / | | | | | / | | | | | / | |
| / | | / | | | | | / | | | | | / | |

# Researchers involved in the proposal

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Please, include also the main contact person, if a researcher*** | | | | | | | | | |
| **Title** | **First Name** | **Last Name** | **Gender** | **Nationality** | **E-mail** | **Career stage[[2]](#footnote-2)** | **Role of researcher (in the project)** | **Reference Identifier** | **Type of identifier** |
| Dr  Mr  Ms  Mrs  Prof | Laura | Mercolini | Woman  Man  Non-binary | Italian | laura.mercolini@unibo.it | Cat A  Cat B  Cat C  Cat D | Leading  Team member | 0000-0002-0644-  9461 | ORCID  Researcher Id  Other - specify |
| Dr  Mr  Ms  Mrs  Prof | Roberto | Mandrioli | Woman  Man  Non-binary | Italian | roberto.mandrioli@unibo.it | Cat A  Cat B  Cat C  Cat D | Leading  Team member | 0000-0001-9631-591X | ORCID  Researcher Id  Other - specify |
| Dr  Mr  Ms  Mrs  Prof | Michele | Protti | Woman  Man  Non-binary | Italian | michele.protti2@unibo.it | Cat A  Cat B  Cat C  Cat D | Leading  Team member | 0000-0001-9310-  4957 | ORCID  Researcher Id  Other - specify |

# Role of Participating organization in the project *(more than one options allowed)*:

|  |
| --- |
| Project management;  Communication, dissemination and engagement;  Provision of research and technology infrastructure;  Co-definition of research and market needs;  Civil society representative;  Policy maker or regulator, incl. standardization body;  Research performer;  Technology developer;  Testing/validation of approaches and ideas;  Prototyping and demonstration;  IPR management incl. technology transfer;  Public procurer of results;  Private buyer of results;  Finance provider (public or private);  Education and training;  Contributions from the social sciences or/and the humanities;  Other;  If other, please specify: (Maximum number of characters allowed: 50) |

# List of up to 5 publications, datasets, software, goods, services, or any other achievements relevant to the call content.

|  |  |
| --- | --- |
| **Type of achievement** | **Short Description (Max 500 characters)** |
| **[Publication]**  **[Dataset]**  **[Software]**  **[Good]**  **[Service]**  **[Other achievement]** | ***Key elements of the achievement, including a short qualitative assessment of its impact and (where available) its digital object identifier (DOI) or other type of persistent identifier (PID).***  ***Publications, in particular journal articles, are expected to be open access. Datasets are expected to be FAIR and ‘as open as possible, as closed as necessary’.*** |
| Novel microsampling approach using fabric-phase sorptive extraction (FPSE) for cannabinoid analysis in blood *Roberto Mandrioli, Roberta Di Lecce, Sobia Noreen, Mattea Carmen Castrovilli, Abuzar Kabir, Marcello Locatelli, Laura Mercolini, Michele Protti*  Microchemical Journal, 2025, 210 112940 | This study investigates the use of volumetric absorptive microsampling (VAMS) for monitoring the *in vitro* metabolism of the synthetic cannabinoid 5F-PB-22. Timed microsample collections enabled the detection of several phase I metabolites, including hydrolysis, defluorination and oxidation products. VAMS proved to be a reliable sustainable approach for efficient metabolic profiling in forensic and toxicological research settings, as its applicability may extend to other NPS.  DOI: 10.1016/j.microc.2025.113855  open access |
| Review: the role of automation in improving the performance and throughput of microsample bioanalysis  *Michele Protti, Laura Mercolini, Roberto Mandrioli*  Analytica Chimica Acta, 2025, 1359, 344018 | This review paper describes the main advanced automation-integrated microsampling strategies in biological matrices, aiming at enhancing analysis sensitivity, reliability, throughput and sustainability. Automation represents an added value to all modern microsampling-based methods in the framework of drug analysis and omics.  DOI: 10.1016/j.aca.2025.344018  open access |
| Intro INES project  *Luca Ferrari, Laura Mercolini, Roberto Mandrioli, Stefano Girotti* Chapter 2. INES Syllabus  Module 1: NPS classification and categorisation  *Luca Ferrari, Laura Mercolini,  Roberto Mandrioli, Stefano Girotti, Laura Mercolini, Roberto Mandrioli,  Stefano Girotti, Michele Protti, Roberta Di Lecce*  In the Book: INES - An interdisciplinary and collaborative research-action experience to integrate the New Psychoactive Substances topic into upper secondary school curricula  Transilvania University Press, Brașov, Romania, 2024, 11-15, 50-67. | The book “Interdisciplinary Approaches to NPS” presents the EU-funded INES project, which promotes innovative and interdisciplinary education on new psychoactive substances (NPS), integrating pharmacology, toxicology, chemistry and public health concepts. In the Intro the authors outline the project’s aims, structure and collaborative framework for advanced NPS education across Europe, while Chapter II focuses on the project syllabus, in particular detailing with the classification of NPS, forming the basis for a structured and cross-sectoral training model.  ISBN: 978-606-19-1761-7  open access |
| Tutorial: Volumetric absorptive microsampling (VAMS)  *Michele Protti, Roberto Mandrioli, Laura Mercolini*  Analytica Chimica Acta, 2019, 1046, 32–47 | This tutorial is the first paper published in the scientific literature as a practical guidance on volumetric absorptive microsampling (VAMS) to improve sampling accuracy, reduce resource use and enable monitoring strategies for health applications. It is about the first blood microsampling technology applied to dried samples not affected by haemotrocrit effect or other accuracy bias.  DOI: 10.1016/j.aca.2018.09.004  open access |
| Chapter 2. TOX-OER to promote open science in the field of toxicology  *Stefano Girotti, Laura Mercolini, Michele Protti, Roberto Mandrioli*  In the Book: Challenges in Open Educational Resources: The Case of TOX-OER MOOC  Editorial Amarante, Salamanca, Spain, 2018,19-31 | The book “Challenges in Open Educational Resources: The Case of TOX-OER MOOC” describes the Erasmus+ funded TOX-OER project, which created a free, multilingual online course in toxicology using open educational resources. It highlights efforts to improve accessibility, innovation and collaboration in higher education. Chapter 2 in particular explores how TOX-OER bridges research and teaching through open science, emphasizing toxicology’s interdisciplinary scope and the use of gamification and digital tools to support active, student-centered learning.  ISBN: 978-84-948294-7-5  open access |

# List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal

|  |  |
| --- | --- |
| **Name of the project or activity** | **Short Description (Max 500 characters)** |
| 2021-2024: Erasmus+ European project “Innovative teaching and learning path for the prevention of new drugs abuse (INES)”, funded within Erasmus+ Strategic Partnership  *(Ref. 2021-1-IT02-KA220-SCH-000032570)* | INES project aimed at developing innovative cross-disciplinary educational strategies for the prevention of new drug abuse among young people. Throughout the project, three European secondary schools have worked closely with university researchers and professors, actively participating in the design, testing and adaptation of teaching materials and methods to ensure they meet the needs of students and teachers in secondary education. All didactic materials are available online and are frequently updated.  <https://ines.unibo.it> |
| 2020: “Advancing peptide analysis in dried blood spots: application potential and stability study of doping-relevant peptides”, funded by The World Anti-Doping Agency - WADA  *(Ref. 20A12LM).* | This international project addressed peptide instability in urine samples for anti-doping, worsened by some inherent aspects of the classic procedures. It proposed using microsampling for more stable sample collection, enabling reliable high-throughput HPLC-MS/MS analysis. This strategy improved analyte preservation, simplified logistics and reduced overall costs. A validated tamper-resistant protocol for urine collection, storage and shipment was proposed for anti-doping analysis.  <https://www.wada-ama.org/fr/ressources/recherche-scientifique/advancing-peptide-analysis-dried-blood-spots-application> |
| 2020-2023: : Erasmus+ European project “Open access educational materials on naturally occurring molecules – sources, biological activity and use (OEMONOM)”, funded within Erasmus+ Strategic Partnership  *(Ref. 2020-1-CZ01-KA203-078218)* | OEMONOM project targeted at the preparation of comprehensible, free and easily available materials for professionals, students of chemisty, pharmacy and medicine disciplines, as well as lay persons, in relation to the effects of natural compounds on human health.The project didactic materials were prepared in 8 native languages (Czech, French, German, Hungarian, Italian, Portuguese, Slovak and Slovenian) and in English, by scientists from different fields and by e-learning experts. The online platform is still available and is constantly updated.  <https://portal.faf.cuni.cz/OEMONOM/EN/Home/> |
| 2017:“Enhanced urinary stability and detection window of peptide hormones and growth factors by dried urine microsampling”, funded by the World Anti-Doping Agency - WADA  *(Ref. 17A20LM)* | This international project focused on the stability of doping-related peptide hormones in dried blood microsamples. Due to their instability in fluids, peptides are hard to detect after storage or transportation. Dried microsampling, especially by means of dried blood spot and newer devices, improved peptide preservation, quantitative reliability and logistics in general. The study evaluated key variables (such as humidity, temperature, light) to define optimal conditions and propose reliable workflows for anti-doping testing using microsamples.  <https://www.wada-ama.org/fr/ressources/recherche-scientifique/enhanced-urinary-stability-and-detection-window-peptide-hormones> |
| 2015-2018: Erasmus+ European project “Learning toxicology through open educational resources (TOX-OER)”, funded within Erasmus+ Strategic Partnership  *(Ref. 2015-1-ES01-KA203-015957)* | TOX-OER project was born to prepare and share high-quality open educational resources to modernise and consolidate toxicology teaching and knowledge in the framework of European higher education, about urgent topics in the field of chemistry, pharmacy and medicine. It aimed at enhancing digital integration in learning, teaching, training and youth work at various levels, by developing scientific, pedagogical, informative and formative materials in toxicology.  <https://toxoer.com> |

# Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work

|  |  |
| --- | --- |
| **Name of infrastructure or equipment** | **Short Description (Max 300 characters)** |
| Mass spectrometry facilities | UHPLC-HRMS, HPLC-MS/MS and UHPLC-MS systems at FaBiT Department support high-sensitivity and high-selectivity analyses of complex matrices. These facilities allow training on method development, validation, and data interpretation for clinical and toxicological applications, in line with international quality standards. |
| UV-Vis and fluorescence facilities | Spectrophotometric and spectrofluorimetric systems enable hands-on learning of optical detection principles. Activities include compound quantification, calibration curve design and method development, supporting foundational modules in chemical and pharmaceutical analysis. |
| Infrared spectroscopy facilities | IR and ATR-FTIR instrumentations are available for solid and liquid sample analysis, including microsamples. Teaching modules focus on spectral interpretation, compound classification and portable formats for decentralized analytical training and outreach activities. |
| Separative techniques | High and ultra high performance liquid chromatography (HPLC and UHPLC), gaschromatography (GC) and capillary electrophoresis (CE) instrumentations support separation-based workflows for chemical and biological samples. Coupled to different detection means and to automated sample preparation instrumentations, these methods are used for both research and practical teaching in several chemistry-related fields. |
| Sample collection and treatment | Automated platforms and microsampling tools enable streamlined workflows from sample collection to extraction. These include both classic and miniaturised systems, suitable for accessible, portable labs and real-world student training dedicated to sample collection, handling and pretreatment. |
| Unibo E-learning infrastructure: access to a Moodle-based platform for digital content delivery, online training, assessment and participant tracking | Unibo provides full access to a centralized Moodle-based e-learning platform, supporting online and blended learning activities. The system allows structured delivery of teaching modules, student assessment tracking, discussion forums and digital resource sharing. It is widely used across undergraduate, postgraduate and lifelong learning programmes and can host multilingual, open-access or restricted training environments. |
| Dedicated offices from both Unibo central administration and FaBiT Department for project management, communication, knowledge transfer and didactics | Unibo and FaBiT provide dedicated support for project management, knowledge transfer, teaching organization and delivery, and communication. Offices facilitate cross-institutional collaboration and ensure smooth integration of education and research actions. |
| Connections with health authorities, industrial partners, public institutions and stakeholders | The project consortium can benefit from long-standing collaborations Unibo has with health authorities, industrial companies, other public institutions and main stakeholders. These links enhance project outreach, support piloting of portable labs, and ensure relevance in applied contexts. |

# Gender Equality Plan

**Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?**

**Yes**

<https://www.unibo.it/en/university/statute-standards-strategies-and-reports/gender-equality-plan/gender-equality-plan>

**Minimum process-related requirements (building blocks) for a GEP**

**- Publication:** formal document published on the institution's website and signed by the top management

**- Dedicated resources:** commitment of human resources and gender expertise to implement it.

**- Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.

**- Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.

**-** Content-wise, recommended areas to be covered and addressed via concrete measures and targets are:

**♦ work-life balance and organisational culture;**

**♦ gender balance in leadership and decision-making;**

**♦ gender equality in recruitment and career progression;**

**♦ integration of the gender dimension into research and teaching content;**

**♦ measures against gender-based violence including sexual harassment.**

# Involved Third Parties

|  |  |
| --- | --- |
| **Does the participant plan to subcontract**[[3]](#footnote-3) **certain tasks (please note that core tasks of the project should not be sub-contracted)** | **N** |
| If **yes**, please describe and justify the tasks to be subcontracted. | |
| **Does the participant envisage that part of its work is performed by Affiliated Entities**[[4]](#footnote-4) (**Article 8 of the Corporate Model Grant Agreement)** | **N** |
| If **yes**, please describe the third party, the link of the participant to the third party, and describe and justify the foreseen tasks to be performed by the third party. | |
| **Does the participant envisage the use of contributions in kind provided by third parties**[[5]](#footnote-5) **(Articles 9.2 of the Corporate Model Grant Agreement)** | **N** |
| If **yes**, please describe the third party(ies) and its/ their contribution(s). | |
| **Does the participant envisage that part of the work is performed by Associated partners**[[6]](#footnote-6) **(Article 9.1 of the Corporate Model Grant Agreement)?** | **N** |
| If **yes**, please describe the Associated Partner(s) and their contributions | |
| **Does the participant envisage that part of the work is performed by international organisations**[[7]](#footnote-7) **(Article 10.2 of the Corporate Model Grant Agreement)?** | **N** |
| If **yes**, please describe the International Partner(s) and their contributions | |

1. A Participant Identification Code (PIC) is **a 9-digit number that serves as a unique identifier for legal entities participating in European funding programmes**. A PIC number has no expiry date. If your organization does not have a PIC, you can get it [**here**](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/participant-register). [↑](#footnote-ref-1)
2. Career stages as defined in Frascati 2015 manual:

   **Category A –** Top grade researcher: the single highest grade/post at which research is normally conducted. Example: ‘Full professor’ or ‘Director of research’.

   **Category B** – Senior researcher: Researchers working in positions not as senior as top position but more senior than newly qualified doctoral graduates (IsCED level 8). Examples: ‘associate professor’ or ‘senior researcher’ or ‘principal investigator’.

   **Category C –** Recognised researcher: the first grade/post into which a newly qualified doctoral graduate would normally be recruited. Examples: ‘assistant professor’, ‘investigator’ or ‘post-doctoral fellow’.

   **Category D –** First stage researcher: Either doctoral students at the IsCED level 8 who are engaged as researchers, or researchers working in posts that do not normally require a doctorate degree. Examples: ‘PhD students’ or ‘junior researchers’ (without a PhD). [↑](#footnote-ref-2)
3. Subcontractors may participate in the action, if necessary for the implementation. Subcontractors must implement their action tasks in accordance with Article 11. The costs for the subcontracted tasks (invoiced price from the subcontractor) are eligible and may be charged by the beneficiaries, under the conditions set out in Article 6. The costs will be included in Annex 2 as part of the beneficiaries’ costs. [↑](#footnote-ref-3)
4. Affiliated entities can charge costs and contributions to the action under the same conditions as the beneficiaries and must implement the action tasks attributed to them in Annex 1 in accordance with Article 11. Their costs and contributions will be included in Annex 2 and will be taken into account for the calculation of the grant. The beneficiaries must ensure that all their obligations under this Agreement also apply to their affiliated entities. The beneficiaries must ensure that the bodies mentioned in Article 25 (e.g. granting authority, OLAF, Court of Auditors (ECA), etc.) can exercise their rights also towards the affiliated entities. Breaches by affiliated entities will be handled in the same manner as breaches by beneficiaries. Recovery of undue amounts will be handled through the beneficiaries. If the granting authority requires joint and several liability of affiliated entities (see Data Sheet, Point 4.4), they must sign the declaration set out in Annex 3a and may be held liable in case of enforced recoveries against their beneficiaries (see Article 22.2 and 22.4). [↑](#footnote-ref-4)
5. Other third parties may give in-kind contributions to the action (i.e. personnel, equipment, other goods, works and services, etc. which are free-of-charge), if necessary for the implementation. Third parties giving in-kind contributions do not implement any action tasks. They may not charge costs or contributions to the action and the costs for the in-kind contributions are not eligible. [↑](#footnote-ref-5)
6. Associated partners must implement the action tasks attributed to them in Annex 1 in accordance with Article 11. They may not charge costs or contributions to the action and the costs for their tasks are not eligible. [↑](#footnote-ref-6)
7. Participants which are established in a non-EU country [↑](#footnote-ref-7)