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| PhD in | Chemical and Pharmaceutical Sciences |
| Coordinator | Maurizio Taddei. maurizio.taddei@unisi.it |
| Department | Biotechnologie, Chimica e Farmacia (DBCF) |
| Attendance | non mandatory |
| Positions | 8 |
| of which: | |

| | n. | Funding institution(s) | Research topic |
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| Positions with scholarship | | | |
| A. | 1 | Ateneo / DBCF UniSI | Design and synthesis of antimicrobial agents to fight emerging or neglected infectious diseases (PI Sandra Gemma) |
| B. | 1 | Ateneo / DBCF UniSI | New machine learning approaches to aquatic pollution modelling and forecasting (PI Steven Loiselle) |
| C. | 1 | Ateneo / DBCF UniSI | Novel Computational Photochemistry and Photobiology Tools for RNA-based Optogenetics (PI Massimo Olivucci) |
| D. | 1 | Ateneo / DBCF UniSI | Ecodesign of materials and processes for green hydrogen production (PI Laura Parisi) |
| E. | 1 | Ateneo / DBCF UniSI | Development of DNA Damage modulators for cancer therapy (PI Elena Petricci) |
| Positions with DM 118 scholarship | | | |
| F. | 1 | MUR/Ateneo | PNRR Research: New bioconjugates for a multiple-targeting approach to treat rate tumours (PI Maurizio Taddei, 6 months abroad) |
| Positions with DM 117 scholarship | | | |
| G. | 1 | MUR/ Procter & Gamble | Nanoparticles for delivery of bioactives (PI Agnese Magnani, 6 months abroad, 6 months traineeship/internship) |
| Positions without scholarship | | | |
| H | 1 | // | Design, synthesis and characterization of photodrugs for neurodegenerative diseases (PI Marco Paolino) |

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| Type of rankings | Stand-alone ranking lists for each position (A-H) |
| Documents required for evaluation (to be attached during online application) | <ul style="list-style-type: none"> ● Curriculum vitae et studiorum, containing a statement of the access title held with the issuing institution in addition to a list of any publications ● Research project (max. 3 pages in English) ● Reference letters (no more than two) of Italian and international academics and/or research professionals (letters shall not be uploaded, but e-mail addresses of the contact persons are to be provided) ● Thesis abstract of <i>Laurea Magistrale/Specialistica/vecchio ordinamento</i> or equivalent foreign degree translated into Italian or English (max. 2 pagine). <p>Eligibility of foreign degrees (to be translated into Italian, English or French) is ascertained by the selection committee in accordance with relevant regulations and international agreements on the recognition of qualifications for further studies.</p> <p><u>Candidates who achieved (or will achieve by 31 October 2023) the diploma di laurea at an Italian university have to specify, in their curriculum, all the data on the university path and the title of admission, in particular:</u></p> <ul style="list-style-type: none"> ● University issuing the degree ● type of laurea – vecchio ordinamento/specialistica/magistrale; ● degree course name ● list of examinations with votes ● date of obtaining the title and final vote or expected date of obtaining the title (by 31 October 2023). <p><u>Candidates who achieved (or will achieve by 31 October 2023) their degree at a foreign university (with a duration of at least four years) must specify in their curriculum:</u></p> |

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| | <ul style="list-style-type: none"> • University issuing the degree • type of degree (min. duration four years) – <i>Bachelor's degree/ Master's degree</i> • date of obtaining the title and final vote or expected date of obtaining the title (by 31 October 2023). <p>Candidates with a foreign degree must attach to the online presentation also the following documentation:</p> <ul style="list-style-type: none"> • transcript – certification of the title with the list of exams and votes – with a translation in Italian or English • Diploma supplement (if available). |
| Web site for further information | https://www.dbcf.unisi.it/it/didattica/post-laurea/dottorati-di-ricerca/dottorato-di-ricerca-chemical-and-pharmaceutical-scienc-0 |
| Selection modalities | Evaluation of qualifications Oral examination |
| Admission requirements | Tutte le lauree magistrali |
| Exam procedures | <p>The minimum score for eligibility is 60/100.</p> <p>Evaluation of qualifications. Candidates are not permitted to be present during the assessment. A minimum of 35 points is required for admission to the interview in English; the maximum score is 50 points.</p> <p>Oral examination: the interview is aimed at assessing the basic preparation acquired, the candidate's ability and aptitude for scientific research and knowledge and skills in subjects related to the topics of the projects. The interview must be conducted compulsorily in English. The use of presentations/slides and computer support is not permitted. The interview may be conducted, if requested and on the basis of the Commission's decision, by videoconference. The maximum score is 50 points.</p> <p>The results of each test will be published on the PhD website and will be communicated to the participants by the selection committee.</p> |
| Dates of evaluation and exam(s) | Evaluation of qualifications: 5 September 2023 Interview: 7 September 2023 , ore 09:00 (CET) Polo Didattico di San Miniato (Siena) |
| Selection committee | The composition of the committee will be published after the deadline for application. |