

PhD programme	<b>DOCTORATE PROGRAM IN CHEMICAL AND PHARMACEUTICAL SCIENCES</b>		
COORDINATOR	Stefano Mangani <a href="mailto:stefano.mangani@unisi.it">stefano.mangani@unisi.it</a>		
Department	Biotechnology, Chemistry and Pharmacy (DBCF)		
Duration	3 years		
Total number of positions	<b>13</b> <b>Candidates can apply to more than one position</b> <b>Online registrations will open on 9 May 2019</b>		
of which:	<b>n. scholarships</b>	<b>Funders</b>	<b>Research topic</b>
<b>Positions with scholarship co-funded by University of Siena/DBCF</b>	<b>1</b>	University of Siena/DBCF (prof. Botta)	Free or suggested research topic: Design and synthesis of DDX3 allosteric inhibitors as antiviral and anticancer compounds
	<b>1</b>	University of Siena/DBCF (prof. Botta)	Free or suggested research topic: Design and synthesis of antibacterial compounds
	<b>1</b>	University of Siena/DBCF (Prof. Campiani)	Free or suggested research topic: Development and application of analytical and synthetic methodologies for investigating nutraceutical products and bioactive molecules
	<b>1</b>	University of Siena/DBCF (Prof. Butini)	Free or suggested research topic: Exploiting the EndoCannabinoid System to control inflammation and promote neuroprotection and myelin repair
	<b>1</b>	University of Siena/DBCF (prof. Manetti)	Free or suggested research topic: Identification of novel molecules targeting convergent metabolic pathways in cancer
	<b>1</b>	University of Siena/DBCF (prof. Magnani)	Free or suggested research topic: Biofunctional polymer networks as tissue substitutes and smart drug delivery systems
<b>Positions with scholarships funded by DBCF</b>	<b>1</b>	Department of Biotechnology, Chemistry and Pharmacy - Department of Excellence	Bound research topic: Research theme regarding the Department of excellence project
<b>Positions with scholarships funded or co-funded by external bodies/University of Siena</b>	<b>1</b> To be established	University of Siena/CNR-ICCOM (Dr Vizza)	Free or suggested research topic: Chemistry for renewable energy: production and its storage, through catalysis, electrocatalysis and photocatalysis
	<b>1</b> To be established	University of Siena/CNR-ICCOM (Dr Reginato)	Free or suggested research topic: Rational design and synthesis of organic molecules for solar energy conversion
	<b>1</b> To be established	CNR-ICCOM (Dr. Maria Caporali)	Bound research topic: Activation and functionalization of elemental phosphorus for selective synthesis of organophosphorus derivatives

	<b>1</b> To be established	Consorzio interuniversitario per lo sviluppo dei sistemi a grande interfase (CSGI)	Free or suggested research topic: Development of "citizen science" methods for monitoring of ecosystemic services
Positions reserved for employees engaged in highly qualified activities (with salary maintenance)	0		
Positions reserved for graduate students at foreign universities	0		
Positions reserved for foreign scholarship holders	0		
Positions reserved for scholarship holders within international mobility projects	0		
Positions reserved for research fellows	0		
<b>Positions without a scholarship</b>	2 (Free research topic)		
Type of ranking	<p><b>X ONE RANKING LIST FOR POSITIONS WITH NO RESEARCH TOPIC RESTRICTIONS</b></p> <p><b>X ONE RANKING LIST FOR EACH POSITION WITH A DEFINED TOPIC (Activation and functionalization of elemental phosphorus for selective synthesis of organophosphorus derivatives - Research theme regarding the Department of excellence project)</b></p>		
Documents required for evaluation (to be provided along with mandatory documents through the online procedure)	<p><b>Declaration</b> (form available on this page) that must be signed pursuant to Presidential Decree 445/2000 and include the curriculum vitae et studiorum with the following information:</p> <ul style="list-style-type: none"> <li>• applicant's personal data</li> <li>• admission qualification already obtained (or to be obtained by October 31, 2019) in Italy (indicating type of the Degree; name of the Degree course);</li> <li>• admission qualification already obtained (or to be obtained by October 31, 2019) abroad (indicating type of the Degree - Bachelor's Degree / Master's Degree, length of at least four years);</li> <li>• University that issued (or will issue) the title</li> <li>• list of exams with grades - only for qualifications obtained in Italy</li> <li>• date of graduation and final grade, or expected date of graduation (by October 31 2019)</li> <li>• possible list of publications</li> <li>• language, technical and computer skills</li> <li>• other skills and competences</li> <li>• any other communication by the applicant</li> </ul> <p><b>Applicants who have obtained (or will obtain by October 31 2019) the foreign academic qualification (lasting at least four years) must also submit online:</b></p> <ul style="list-style-type: none"> <li>• <b>transcript</b> - certificate of the title with list of exams and grades – translated into Italian or English;</li> <li>• <b>Diploma supplement</b> (if available).</li> </ul>		

	<p>All applicants must also submit through the online procedure:</p> <ul style="list-style-type: none"> <li>• <b>Research project (in English)</b></li> <li>• <b>Letters of reference</b> (no more than two) from University professors and/or Italian or international professional researchers; the candidate will have to provide the email addresses of the referent during the registration phase</li> <li>• <b>Abstract</b> of degree thesis translated into Italian, English</li> <li>• Level B2 English knowledge certificate (if acquired);</li> <li>• copy of any other document useful to support the admissibility of the qualification title</li> </ul> <p><b>The compliance of the foreign qualification is verified by the Examining Board in accordance with the relevant laws and international agreements concerning the recognition of qualifications for the purpose of continued education</b></p> <p><b>Knowledge of English at level B2, if not certified, will be ascertained by the Examining Board.</b></p>
In-dept website	<p><a href="https://www.dbcf.unisi.it/it/didattica/post-laurea/dottorati-di-ricerca/dottorato-di-ricerca-chemical-and-pharmaceutical-scienc-0">https://www.dbcf.unisi.it/it/didattica/post-laurea/dottorati-di-ricerca/dottorato-di-ricerca-chemical-and-pharmaceutical-scienc-0</a></p>
Selection method	<p><b>Evaluation of qualifications</b>  <b>Oral exam</b>  <b>English test</b></p>
Access requirement	<p><b>All master's Degrees</b></p>
Methods of conducting the tests	<p>Minimum score for admission 60/100.</p> <p><b>Evaluation of qualifications.</b> Presence of applicants is not allowed during the evaluation procedure.  Minimum score for admission to the oral exam: 20/40</p> <p><b>Oral exam:</b> is aimed at evaluating the basic preparation to be acquired, the capacity and aptitude of the candidate for scientific research  The English language test is contextual to the oral exam and consists in reading and immediate translation of a scientific text in English.  Minimum score for passing the oral test and English language test: 40/60</p> <p>The results of each test must be posted at the PhD site and must be communicated to the participants by the examining commission</p>
Date of the tests	<p><b>Evaluation of qualifications: July 11 2019, at 10:00 am.</b> Polo scientifico universitario di San Miniato – Siena</p> <p><b>Oral test: Prova orale: July 18 2019, at 9:00 am. Aula 16,</b> Polo scientifico universitario di San Miniato – Siena</p>
Examining Board	<p>President:  Maurizio Botta (Professore ordinario)</p> <p>Members:  Agnese Magnani (Professore associato)  Steven Loiselle (Professore associato)</p> <p>Experts:  Gianna Reginato (Consiglio nazionale delle ricerche - ICCOM)  Alessandro Mordini (Consiglio nazionale delle ricerche – ICCOM)</p> <p>Substitute members:  Stefania Butini (Professore associato)</p>

	Sandra Gemma (Professore associato)
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