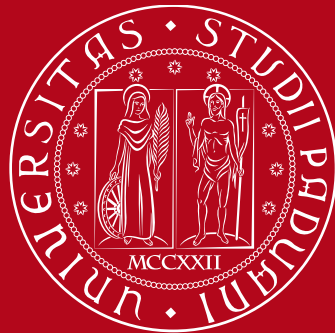


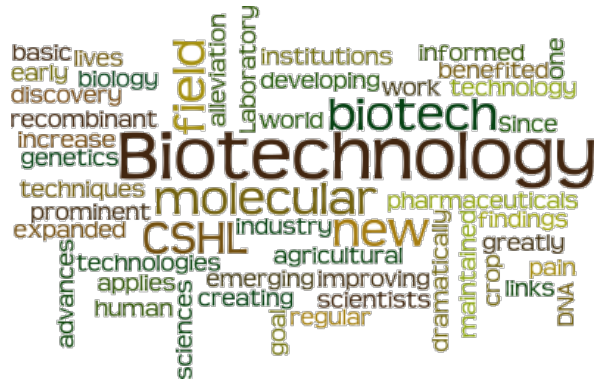
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**Master's degree (MSc) in Biotechnologies for  
Food Science**

**Agripolis – Legnaro (Padua)**



1. INTRO-KEYWORDS
2. ENTRY REQUIREMENTS
3. PROGRAMME STRUCTURE
4. CAREER OPPORTUNITIES
5. TESTIMONIALS/ALUMNI
6. CONTACTS



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LEGNARO

## Legnaro - AGRIPOLIS





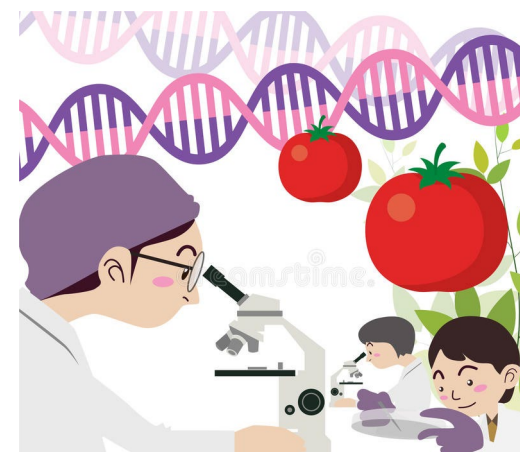
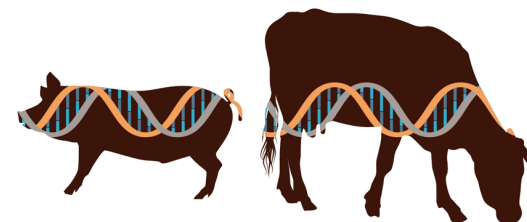
INSPIRING GLOBAL CHANGE SINCE 1222



87 in 2021!

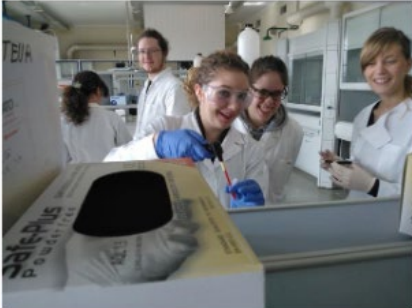
SCHOOL OF AGRICULTURAL SCIENCES AND VETERINARY MEDICINE

# BIOTECHNOLOGIES FOR FOOD SCIENCE





- In academic year 2016/2017, the University of Padova inaugurated a new *curriculum* (“**Biotechnologies for Food Science, BFS**”), entirely taught in English (UK), under the umbrella of our Master Degree in “Biotecnologie per l’Alimentazione” (2008/2009, taught in Italian, IT)
- BFS is an interdisciplinary MSc program focusing on the application of advanced biotechnologies in food production and safety
- From 2022/2023 the whole Master degree will be officially recognized as a MSc taught in English, with 4 different *curriculum* (2 in UK, 2 in IT)



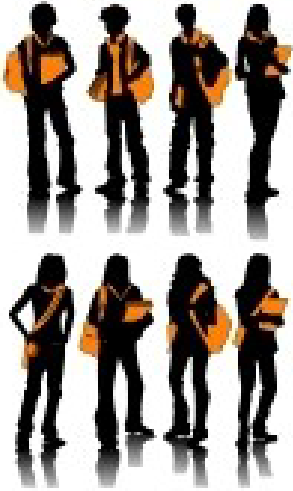
- BFS explores how to produce **healthier and safer food** following a cross-cutting, **farm/field-to-fork** approach
- BFS bridges the gap between the **requests of consumers, producers and researchers** involved in food production and food-safety
- BFS focuses on the application of **advanced cutting-edge biotechnological tools** (i.e., genomics, bioinformatics, proteomics, metabolomics, nanotechnologies) in food production and safety
- BFS offers **theoretical lessons mixed with practical training**, providing students with substantial hands-on experience in food biotechnological tools and bioinformatics

## Key words



- Healthy and Safe Food**
- Food Production and Food Safety**
- Advanced Food Biotechnologies and Bioinformatics**

# 1 Entry requirements



BSc graduated students with credits in Genetics, Molecular Biology, Bioinformatics, are particularly welcome

A background in **Biotechnology** (including Agricultural, Animal Biotechnologies, and Food Biotechnology) is welcome, too



BSc graduated in Molecular and Cell Biology, Biology, Food Technologies, Crop Science, Food Microbiology, Agricultural Engineering, are also welcome

## 2

## Entry requirements



English language at a B2 level as per the Common European Framework of Reference for Languages (CEFR) - or corresponding level (e.g. Academic IELTS or TOEFL/IBT) is required



If the candidate is an English mother tongue speaker or has attended their upper secondary school or a degree course in English, no language certification is necessary





## PROGRAMME STRUCTURE

Four study plans

- **Study plan in Food Production & Nutrition** (one taught in UK and one in IT)
- **Study plan in Food Safety & Hygiene** (idem as above)



## 1st Year

- Genetics and Molecular Biology of Agrifood Products
- Agrifood Microbiology
- Applied Food Biotechnology
- Advanced Technologies for the Agrifood Sector (Nanotechnologies, Proteomics, Metabolomics)
- Genomics
- Applied Bioinformatics
- Laboratory of Advanced DNA, RNA, and Protein Analysis
- Communication Skills

## 2nd Year

- Traceability of Agrifood products
- AgriFood Legislation and Regulation
- Food Toxicology and Toxicogenomics



### Study plan in Food Production & Nutrition

- Biotechnologies in Plant Protection
- Biotechnologies for Crop Production



### Study plan in Food Safety & Hygiene

- Epidemiology, Biotechnology and Risk Analysis of Foodborne Diseases
- Interactions between nutrients, host and microbiota

## MSc thesis



- opportunities for intensive tutoring and for MSc thesis-related traineeships (about six months duration, 24 ECTS) are available

## Where?

- in our campus or in other UNIPD laboratories with outstanding knowledge in agri-food biotechnologies
- in other relevant national and international organizations in the private or public sphere



- B Gent
- F Brest
- HU Kaposvar
- NL Nijmegen
- PL Poznan
- S Umea
- FL Kuopio
- CZ Prague
- other available (and free) position in other Universities
- individual traineeships



## *Professional opportunities*

As advanced biotechnologies increasingly move from research to production, the job market demands professional profiles that have a strong technological background and, at the same time are able to move across a variety of other specialized disciplines, and interact with all the different actors in the agri-food sector.

The broad cross-disciplinary expertise offered by our MSc programme, will open job opportunities in private and public research centers, in public institutions dealing with animal health and food safety, in the private agro-food sector, at various levels from animal and crop production, food processing, to large food retail chains.





2020-2021 data

## Professional opportunities



One year after graduation:

- The **47%** of graduates attended a post-graduate traineeship (40% in agri-food enterprises)
- The **67%** of our graduates is now working
- The time to get a job is **1,8 month**



2020-2021 data



- Most students graduates **within the 2<sup>nd</sup> year** (September-December)
- Mean time to degree is **2,4 years** (factor 2,2)
- Our MSc in BFS has **~85% overall satisfaction**
- Actually, **~71%** of our graduates would enrol again in our MSc





2020 data

## Teaching in presence

Overall satisfaction



Organization



Quality of Teaching



## Teaching online (also in part)

Overall satisfaction



Organization



Quality of Teaching



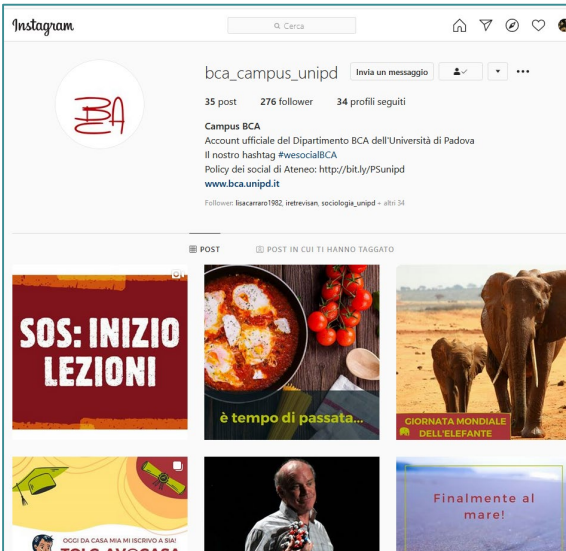
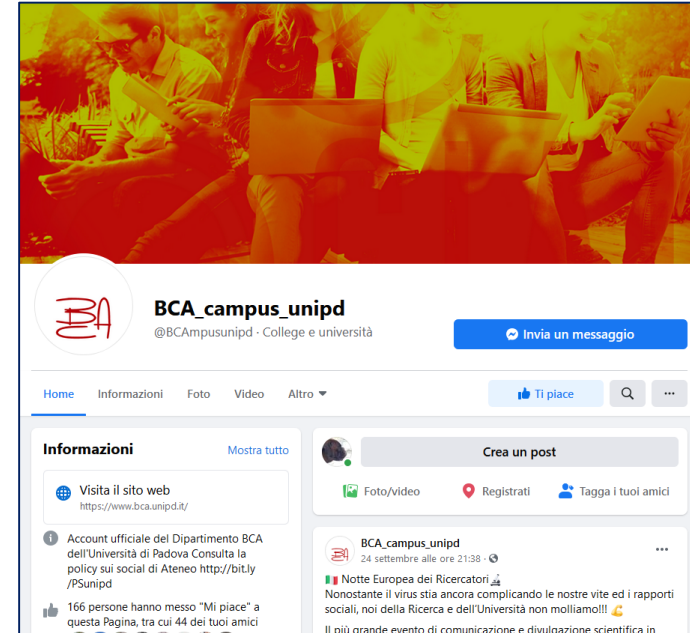


2020 data

- In the past 5 years (2016-2020) the number of undergraduate students increased (+48%) if compared with the mean value of the last 4 years (i.e., 40.75)
- The indicators of the overall students satisfaction show a positive trend, higher than mean values of UNIPD and North-East Italy geographic area
- BFS is the first MSc in our School of Agricultural Sciences and Veterinary Medicine, except for one indicator (for which we are the second one by 0,04)

## Project We Social

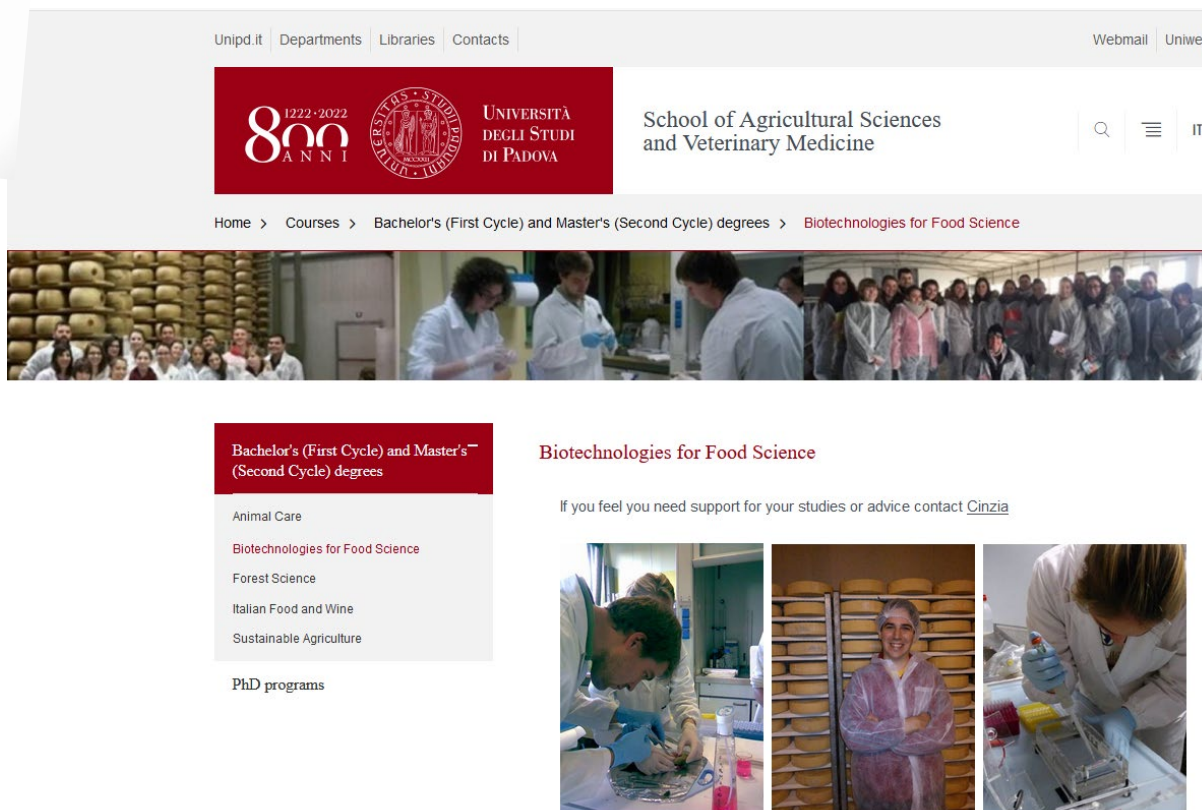
- ❑ Social editing staff (students and professors) with experts in communication and digital strategist
- ❑ At present, in Italian
- ❑ Facebook page and Instagram profile
- ❑ BCA\_campus\_unipd
- ❑ To tell what we do and make real and virtual snapshots of Agripolis' campus life





## Biotechnology for Food Science (BFS)

SEE YOU  
SOON!



The screenshot shows the website for the School of Agricultural Sciences and Veterinary Medicine at the University of Padua. The page features a navigation menu with links to Unipd.it, Departments, Libraries, and Contacts. The main header includes the university's 800th anniversary logo and the school's name. A breadcrumb trail indicates the path: Home > Courses > Bachelor's (First Cycle) and Master's (Second Cycle) degrees > Biotechnologies for Food Science. A large banner image shows students in a laboratory setting. A sidebar menu lists various programs, with 'Biotechnologies for Food Science' highlighted. The main content area is titled 'Biotechnologies for Food Science' and includes a contact link for Cinzia.

Unipd.it | Departments | Libraries | Contacts | Webmail | Uniwed

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School of Agricultural Sciences  
and Veterinary Medicine

Home > Courses > Bachelor's (First Cycle) and Master's (Second Cycle) degrees > Biotechnologies for Food Science


Bachelor's (First Cycle) and Master's™  
(Second Cycle) degrees

- Animal Care
- Biotechnologies for Food Science**
- Forest Science
- Italian Food and Wine
- Sustainable Agriculture

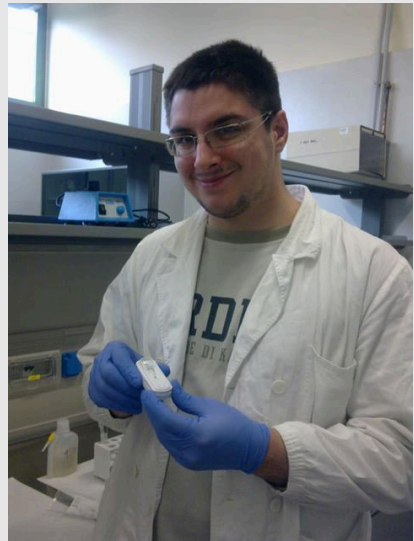
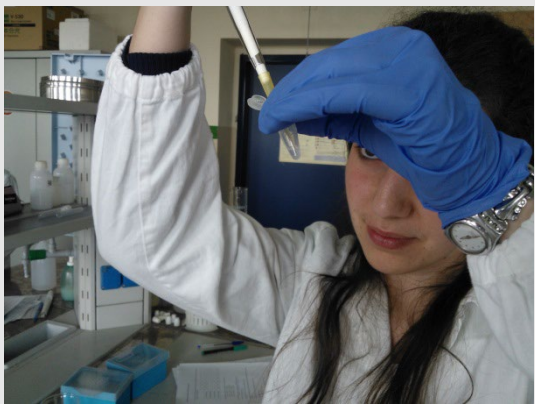
PhD programs

Biotechnologies for Food Science

If you feel you need support for your studies or advice contact [Cinzia](#)



<https://www.agrariamedicinaveterinaria.unipd.it/en/courses/>



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**Instagram: [unipd](https://www.instagram.com/unipd)**



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**WATCH OUR VIDEO “10 reasons for studying in Padua”**

**[www.youtube.com/watch?v=Zl6vKRe6PWc](http://www.youtube.com/watch?v=Zl6vKRe6PWc)**