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Higher education and training in Nutrition-related fields in Italy and Europe

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SCIENTIFIC AND TECHNICAL GUIDANCE FOR THE PREPARATION AND PRESENTATION OF THE APPLICATION FOR AUTHORISATION OF A HEALTH CLAIM

© European Food Safety Authority, 2007

Bioavailability data References PART 3: OVERALL SUM!

Written summary o 3.1.1 Tabulated summary of

> Written summary o Tabulated summar

> Overall conclusions

Review of the total

Pertinent data iden Human data 4.2.2 Non-human data. PART 5: ANNEXES TO TE

Glossary / Abbrevia

Copies of article/res Full study reports.

Other

PART 4: BODY OF PERTI

4.1.1 Processing a comprei Other pertinent data,

2.3

3.3

5.3

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Classe delle lauree in Scienze e Tecnologie Agrarie, Agroalimentari e Forestali

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The science of nutrition attempts to understand how and why specific dietary aspects influence health by explaining metabolic and physiological responses of the body to food, food components and diets.

With advances in molecular biology, biochemistry, and genetics, nutrition science is additionally developing into the study of metabolism, which seeks to disconnect diet and health through the lens of biochemical processes

Research in Human Nutrition has reached a high standard of quality and can be regarded as a autonomous area in the field of health and life sciences..

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Nutrition is a multidisciplinary area of science whose peculiarities are increasingly acknowledged in both the job market and the higher

education system

FACOLITA DI FARMACIA

The Higher education system in the field of Human Nutrition

Like other emerging fields of science, it covers multiple domains in the areas of health and life sciences, therefore requiring substantially different training skills, depending on the professional objectives.



disciplines

Basic

Food Science Nutrition Dietetics is a health composition, profession for specialists Public Health Nutrition g and Dietetics al quality of good health through bot nutrition and physical activity and the prevention of related illness in the Clinical Nutrition population Nutrige Clinical Nutrition is a System Bitherapeutic adjunction omics is the human disease treatment.molecular It is an important part of ips between lealth therapy administered nd the response under medicahes, with the aim of IOn responsibilityapolating how such subtle changes can affect human health

European Commission > ... > Education and Training > Bologna Process

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Human Nutrition education at European level

FENS Report



Ann Nutr Metab 2007;51:115-118 DOI: 10.1159/000102102

Published online: April 27, 2007

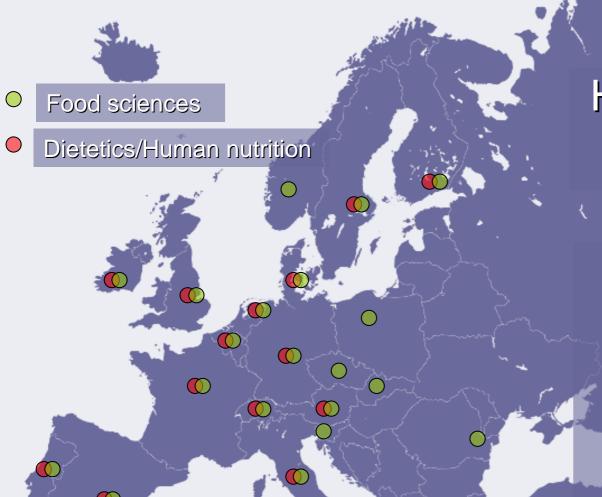
Nutrition, Dietetics and Food Sciences Degrees across Europe

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Ann Nutr Metab 2007;51:115–118 DOI: 10.1159/000102102 Published online: April 27, 2007



Human Nutrition at European level

Wide differences in curricula, training, title recognition, LLL (life-long learning).

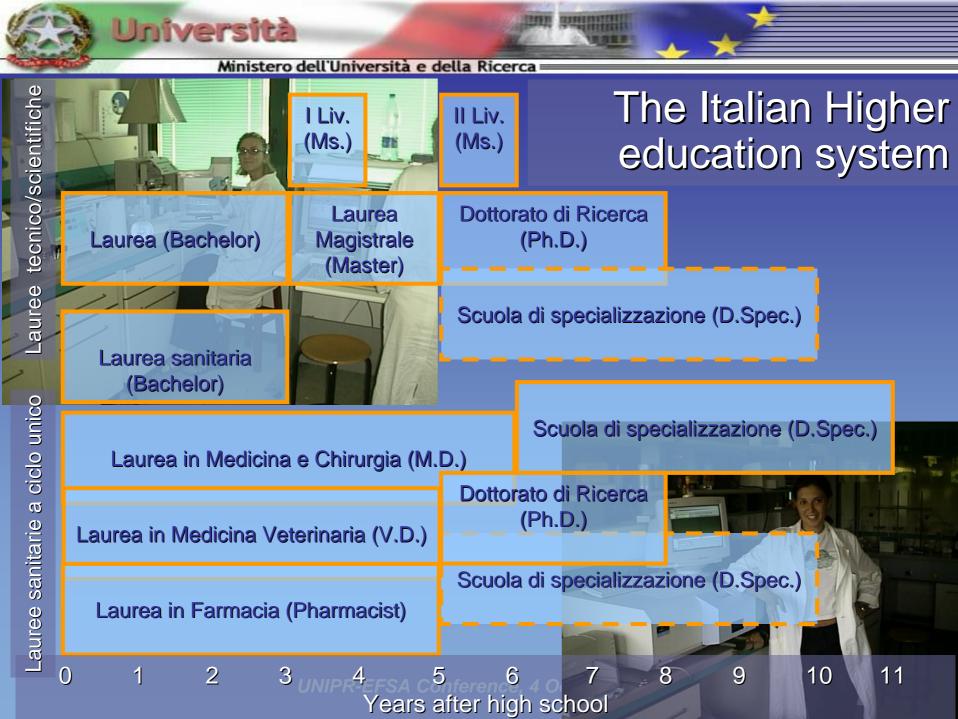
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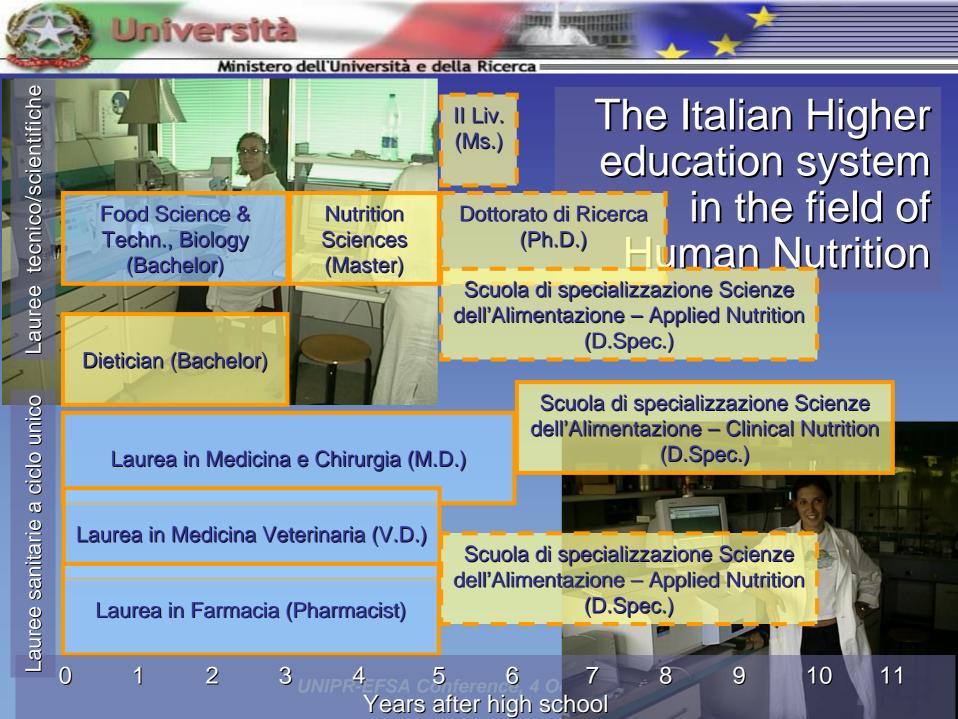
Search

European Commission > ...> Education and Training > Bologna Process

The Bologna Process aims to create a European Higher Education Area by 2010, in which students can choose from a wide and transparent range of high quality courses and benefit from smooth recognition procedures.

Human Nutrition at European level The three priorities of the Bologna process are: Introduction of the three cycle system (bachelor/master/doctorate), quality assurance and recognition of qualifications and periods of study







national register)

Dietician (Bachelor)

Lauree sanitarie a ciclo unico

11/20 courses offered by 39 medical schools. Limited to <15 (total) students per year. 20 courses offered by 39 medical schools. Limited to year 31 (total) students per profession of Dietician.

National Register.

The Italian Higher education system in the field of **Dottorato di Ricerca** (Ph.D.) uman Nutrition

Scuola di specializzazione Scienze dell'Alimentazione – Applied Nutrition (D.Spec.)

> Scuola di specializzazione Scienze dell'Alimentazione - Clinical Nutrition (D.Spec.)

Scuola di specializzazione Scienze dell'Alimentazione - Applied Nutrition (D.Spec.)

10 8 6 Years after high school



Ministero dell'Università e della Ricerca

Number of professional figures / Italian population*:

35.000 dieticians (i.e. about 1 / 1.700) 3.500 nutritionists (i.e. about 1 / 17.000) 350 physicians (i.e. about 1 / 170.000)

*(given that all students enrolled conclude the study program and get a degree; that all degree holders find a job in their field of studies, that all professionals keep working over a time span of 35 y)





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One-year course on
"Strategies for
promotion of nutritional
quality and safety in the rition
developmental age "Ciences"
(Dep. of pediatrics)

Human Nutrition at Parma University

Dottorato di Ricerca (Ph.D.)

Scuola di specializzazione Scienze dell'Alimentazione – Applied Nutrition (D.Spec.)

Dietician (Bachel Doctorate in Food Sciences and Technologies (6-7 students/year). About 1 student/year on nutrition

Scuola di specializzazione Scienze dell'Alimentazione – Clinical Nutrition (D.Spec.)

Activated A.A. 2005/2006. One (1) student per year

Scuola di specializzazione Scienze lell'Alimentazione – Applied Nutrition (D.Spec.)

0

tecnico/scientifiche

auree

Lauree sanitarie a ciclo unico

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UNIPE

EFSA Con

6

Years after high school

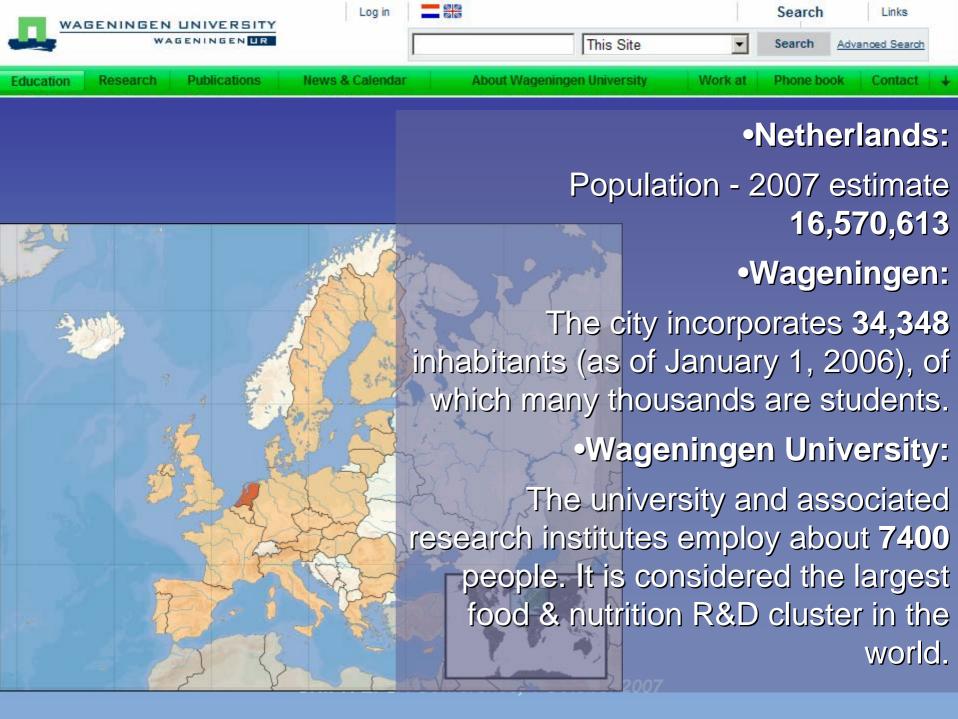
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10

11



PhD candidate

Thesis title

Date & time

Supervisors

Thesis title

PhD candidate G. Plasqui (Guy)

Prof. W.A. Buurman, Prof. E. Heinem

Daily physical activity, energy expenditure and psychical fitness.

PhD candidate

Thesis title

Date & time

Supervisors

Thesis title

Date & time

Supervisors

Date & time

Supervisors

Design and eval

Supervisors

Thesis title

PhD candidate

European Commission > ...> Education and Training > Bologna Process

Human Nutrition integration at European level

Efforts in integrating education and training in the fields of: Dietetics,

Food Sciences,

Public Health Nutrition,

LLL (life Long Learning) and certification of skills

DIETS http://www.thematicnetworkdietetics.eu DIETS (Dietitians Improving the Education and Training Standards) was established in 2006 with the University of Plymouth as the coordinating institution, and continues to develop partnership activities among European Dietetic Associations through a Thematic Network with already 100 A Socrates Thematic Network Partners from 30 European countries

Human Nutrition integration at European level

Two main objectives:

- 1) To describe all areas of dietetic practice, education and training throughout Europe and develop the utilization of ECTS (European Credit Transfer and Accumulation System)
 - 2) To develop quality indicators, in particular in practice education.



ISEKI http://www.iseki-food.net/

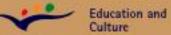
ISEKI-Food Association is an independent European non-profit organization, established in 2005 by more than 50 participants (University institutions, research institutes, companies and associations related to food) from 24 countries of the Thematic network ISEKI-1 and ISEKI-2.

Human Nutrition integration at European level

A Socrates Thematic Network Two main objectives:

- 1) Improve the harmonisation of the studies in Food Science and Engineering in Europe.
 - 2) Develop and adapt the curricula, with the objective of including safety and environmental topics.





JOBNUT- strategies for improved vocational training in Public Health Nutrition (PHN).





PREVNUT http://www.prevnut.ki.se

extensive networking between universities and larger organizations. Coordinated by Karolinska Institute, was running courses in Eastern Europe in collaboration with the WHO in the early 90's. In 1997, the EC funds a larger collaboration between 21 Universities to set up a joint European master programme in PHN. (Jobnut)

Human Nutrition integration at European level

joint European master programme in Improvement of education and training systems of PHN throughout the EU, reinforcing partnership, exchange of best practice and the promotion of a quality assured registration system for PH nutritionists.

ENLP http://www.enlp.eu.com

Non profit initiative. Since 1994 it organizes intensive courses based on a varied and highly interactive programme, which includes roleplaying, presentations, discussion groups and talks by leading European nutritionists. Participants are selected each year from final year PhD students, portdoctors the development of future leaders fellows, the food industry in the field of human nutrition in Europe.

Human Nutrition integration at European level

ENLP objectives:

To build a network of competences which can help to create a common European vision and approach in nutrition and health and food safety.

NuGo http://www.nugo.org

NuGO is a European-funded Network of Excellence, the full title of which is 'The European Nutrigenomics Organisation: linking genomics, nutrition and health research'. Partners are research organizations, Universities and small-medium sized businesses from ten European countries

Human Nutrition integration at European level

aim of the NoE is to train European scientists to use post-genomic technologies in nutrition research. The objective of the training programme is to promote knowledge and the development of skills in nutrigenomics science throughout Europe.



(British) Nutrition Society http://www.nutritionsociety.org

The Nutrition Society holds voluntary registers and is working towards the protection of the title 'nutritionist' in order to protect the public and improve professional standards. It also promote a Code of Ethics and Statement of Professional Conduct and Policy on Professions in the Nutritional Sciences.

Human Nutrition integration at European level

NS training objectives:

NS aims to promote high standards of professional education through a Course Accreditation Scheme.

From 2005, course accreditation scheme include two types of specialist courses based on the biosciences: • Public Health Nutrition • Nutrition.

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FINAL REMARKS (WITH A SPECIAL LOOK AT PARMA):

GOVERNANCE:

- Convergence happens
- Train is already rolling: In or Out
- Need for strategies
- Need for integration (local, regional, national, international level)
- Exploiting opportunities for education linked to EFSA experts' presence in town

STUDENTS:

- Italian chidren are Europe's fattest; somebody will soon reorder national priorities
- Start thinking "from fork to farm" instead that "from pork to ham"
- In the meantime, get international 2007

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THANK YOU