



IZSAM G.CAPORALE  
TERAMO

**Health education and the future of  
natural resources: food safety, food waste and  
the culture of sustainability**

Ombretta Pediconi, Giancarlo Pichillo  
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# IZS Abruzzo and Molise



- We are a scientific body, founded in 1941, belonging to the National Public Health Service. We support the Italian Ministry of Health and the Abruzzo and Molise Regions.
- **Our mission is:**  
*to ensure human health, providing appropriate response to public health needs, through scientific knowledge and expertise on food safety, animal health and welfare, control and prevention of transmittable animal diseases, including zoonoses, support to food production.*



# We are here





# Our national expertise



 **CESME**  
Centro di Referenza Nazionale



 **COVEPI**  
Centro di Referenza Nazionale



 **Brucellosi**  
Centro di Referenza Nazionale



 **Campylobacter**  
Laboratorio Nazionale di Riferimento



 **PCDD/F e PCB**  
Laboratorio Nazionale di Riferimento



 **Listeria monocytogenes**  
Laboratorio Nazionale di Riferimento



 **IUVENE**  
Centro di Referenza Nazionale





# Our international expertise





# We are the heart of the OIE Collaborating Centre for Veterinary Training, Epidemiology, Food safety and Animal Welfare



**Teramo**



**Torre di Cerrano (TE)**

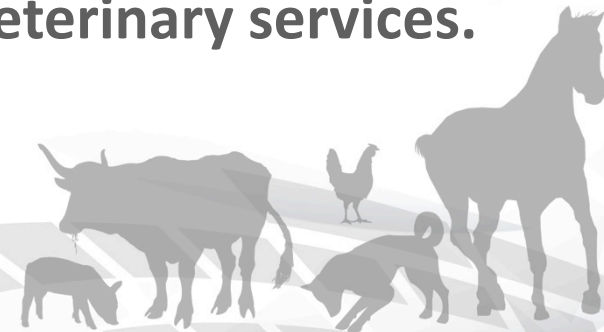


# 20 years of international training activities



In the last two decades, IZSAM has invested consistently on:

testing innovative training methods,  
developing learning programmes and  
validating training management models  
able to respond to the  
constantly increasing demand for capacity  
building  
at international level,  
mainly for official veterinary services.





# Vocational training and Health education Programmes



Since 1990s IZSAM delivered **health education programs** devoted to primary schools students on different issues concerning food safety, human-animal interaction, environment.





# The project framework



In 2015 a national reform of the school education system (**Law n. 107/2015**) entered into force in Italy inspired by the European policies on lifelong learning.

Our **three-year educational project** was built on two interrelated modules: “Digital natives at work” and The future flows in our hands”.

**166** students between 15 and 18 years old were involved from 3 upper secondary schools.



# The project objectives

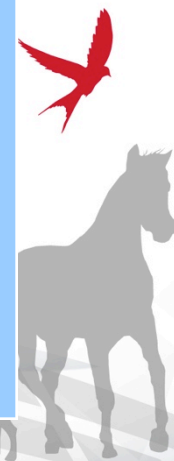
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- **To approach** the main veterinary scientific issues, with specific attention to the concept of *One Health*
  - **To experience** modern communication strategies
  - **To use** social networks and applications to disseminate scientific information
  - **To be acquainted with** a professional scientific environment
  - **To apply** the method of scientific research
  - **To get** culturally aware of the multi-layered implications linked to the concept of “sustainability”
  - **To grow up** as “reflective” global citizens by developing a “critical” mind set



# Skill assessment areas

Transdisciplinary and transversal competences and descriptors:

Knowledge	Skills	Responsibility and autonomy
<p>Critical awareness of specific knowledge, <b>autonomous problem solving</b>; sense of <b>responsibility</b> towards others</p> <p><b>e.g.</b>, development of newsletters and blogs focused on the technical topics</p>	<p><b>Social interaction</b>, availability to collaborate with the group of peers and adults, <b>team working</b></p> <p><b>e.g.</b>, by using Google Drive as a tool for sharing didactic materials and edit draft documents elaborated by the groups of students with Google Docs</p>	<p>Self-management ability in the framework of a working context; <b>autonomous decision making</b></p> <p><b>e.g.</b>, to be able to fill in autonomously questionnaires and diaries linked to the D.E.ME.TR.A. research project</p>



# The main project outputs

- One public **Facebook** profile, administered by the IZSAM project team
- Working groups **visual identity**



“The Digital science”  
*Logo*



The “Science is life”  
*Logo*



# The main project outputs

- Two **blogs**, developed in Wordpress: “The digital science” and “Science is life”

- **Newsletters**



- A **video** titled “Mangiare bene per vivere meglio”;



# The main project outputs

- **46 research questionnaires** on students' households food consumption habits
- **43 weekly diaries** on food waste



DEMETRA

Research project on food waste funded by the Italian Ministry of Health.

**DEMETRA's main aim:** to increase awareness and knowledge on how to reduce food waste on both the consumers and producers/distributors' sides in two Italian Southern Regions (Abruzzo and Molise), while also improving the food safety of food donated for solidarity purposes.



# The main project outputs

Students were introduced to the use of the **questionnaires**, and then asked to apply them at home for interviewing household members.

**Weekly diaries** were used to measure the amount of food wasted in the students' households; students were also asked to keep note of the reasons for throwing away the wasted food.

1. Da quante persone è composta la famiglia dell'intervistato\*?

1	2	3	4	> 4
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\* NB: con "famiglia" si intende il nucleo domestico, ovvero i componenti dell'abitazione in cui si vive e con i quali si condivide la spesa alimentare, la gestione ed il consumo degli alimenti.

2. A quale fascia d'età appartiene l'intervistato?

15-29	30-49	50-69	> 70
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3. L'intervistato è colui/calui che si occupa prevalentemente della spesa alimentare e della gestione degli alimenti all'interno del nucleo familiare?

SI  No

4. Indicare il comune di residenza dell'intervistato

5. Barrare il costo medio mensile per l'acquisto di generi alimentari in famiglia (in euro)

0-99€	100-249€	250-349€	350-499€	500-699€	> 700€
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6. Vi sono componenti della famiglia che soffrono di intolleranze alimentari?

SI  No

7. Uno o più componenti della famiglia seguono regimi alimentari particolari?

SI  No

8. Se la risposta ad una delle due domande precedenti è sì, indicare quale tra le seguenti diete:

Vegana	Vegetariana	<u>Fruttariana</u>	Crudista	Senza glutine	Senza lattosio	Altro (specificare)
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## Diario degli sprechi alimentari

### Esempi di compilazione

Data	ALIMENTO SPRECATO	QUANTITÀ (G/ L/ PEZZI/ ALTRO)	TIPOLOGIA E/O MODALITÀ DI CONSERVAZIONE	MOTIVAZIONE	EVENTUALI NOTE E COMMENTI
1/1/2019	Zampane	500 gr	Precotto	Avanzato dal cenone	
1/1/2019	Pasta	1 piatto	Cucinato a casa	Quantità in eccesso	1 persona della famiglia ha mangiato fuori casa senza preavviso
2/1/2019	Mela	1	Fresca	Marcia	
3/1/2019	Prosciutto crudo	70 grammi	Fresco, in vaschetta sottovuoto	Ammuffito	
4/1/2019	Pesto in vasetto	Metà vasetto da 150 g	In frigo, in vasetto di vetro	Rancido e scaduto	
5/1/2019	Pollo allo spiedo	Metà pollo di 1 kg	Incartato, in frigo	Per partenza improvvisa	







# Thanks for your attention

Ombretta Pediconi, Giancarlo Pichillo  
IZSAM, Italy  
[o.pediconi@izs.it](mailto:o.pediconi@izs.it), [g.pichillo@izs.it](mailto:g.pichillo@izs.it)

Website: [www.izs.it](http://www.izs.it)

