

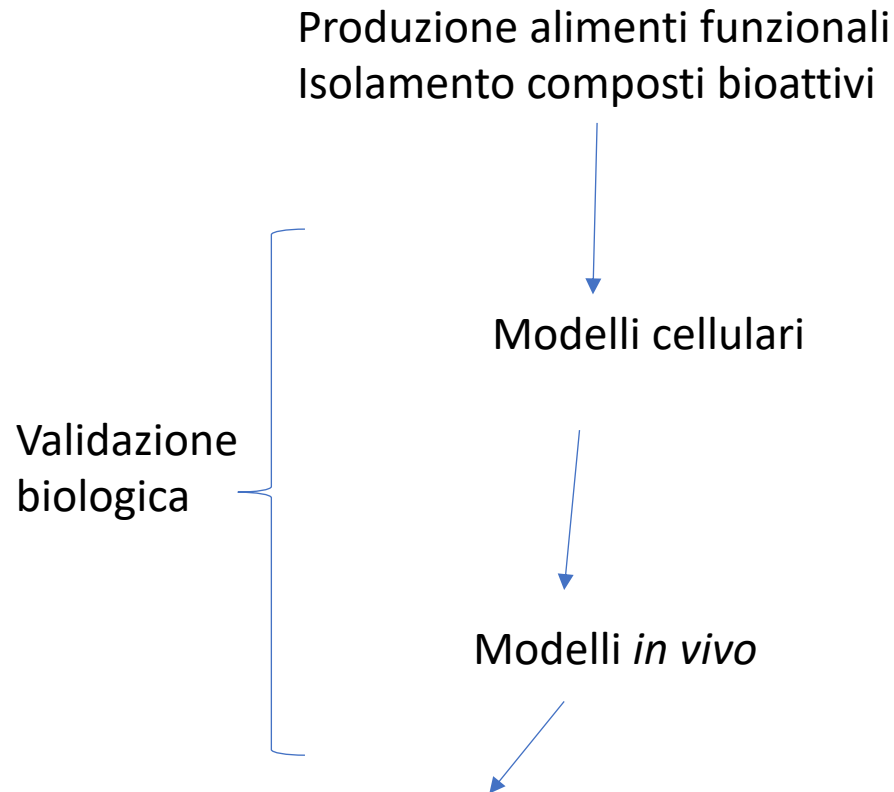


“Validazione biologica”

A cura di Mauro Rossi (ISA-CNR)



CONTESTO SCIENTIFICO



Test nutrizionali sulla popolazione generale
Test clinico-nutrizionali su popolazioni affette da patologie

To demonstrate the efficacy of the food's bioactive component(s) in a science-based process, according with the following criteria:

- A. Biological activity:** identification of a plausible mechanism to explain the effects of the bio-active component
- B. Biomarker identification** as an independent measure of exposure to the bio-active component
- C. Specificity of the association:** demonstration of a predictable relationship between the bioactive component and the proposed effect
- D. Bioavailability:** body ability to absorb and use for its physiological functions molecules present in food
- E. Temporal relationship** between the observed effect and the presence of the bioactive component
- F. Dose-response relationship**
- G. Strength of association:** how statistically significant are the data that support the relationship

CHI SIAMO

61/135= 45% ricercatori *Nutrheff*

DISBA	DSB	DSCTM	DSFTM	DIITET	DSSTTA	DSU
ISA	IFT	ICB	NANOTEC		IEIT	
IBBA	IRIB					
IBBR	IEOS					
ISPA	IFC					
	IBBC					
	IN					
	IRGB					

INNOVATIVI MODELLI SPERIMENTALI *IN VITRO*

IFT - CNR

Bronchial Epithelial Cells;
3D in vitro/ ex vivo models of inflammatory diseases

IFC - CNR

cellular models of atherosclerotic and inflammatory diseases
adipocytes
dynamic in-vitro model of vessels

NANOTEC- CNR

liver-on-chip and 3D bioprinted hepatic models
organ-on-chip and bioprinting technology

IEIIT-CNR

Innovative bioreactors used to culture different cellular models

IRIB - CNR

human melanoma cells

ISA - CNR

intestinal biopsy organ culture
human Intestinal T cell lines

IRIB-CNR

human neuronal cell line SH-SH5Y

IEOS - CNR

human stem cells

IBBC - CNR

human Intestinal T cell lines

IRIB-CNR

immune cells of *P. lividus* sea urchin.

MODELLI SPERIMENTALI DISPONIBILI *IN VIVO*

IBBC-CNR

emotional /cognitive aspects in mouse
Alzheimer's Disease (AD) mouse model
mouse models of neurodegenerative and psychiatric diseases

ICB - CNR

obese ob/ob mice

ISA - CNR

transgenic mouse model of food intolerance

IN-CNR

neuroinflammation, nociceptive transmission, cognitive functions and emotional states in mice

NANOTEC- CNR

IRGB-CNR

skeletal muscle patho-physiology in mouse models

IBBR - CNR

C. elegans

CONCLUDING REMARKS

L'area tematica è strumentale in particolare per:

- ∅ Garantire visibilità ai ricercatori partecipanti, fornendo un'immagine della ricerca condotta in modo coordinato e integrato;
- ∅ Creare e sostenere comunità virtuali di gruppi di ricerca disponibili a percorsi di collaborazione;
- ∅ Proporre la partecipazione a progetti nazionali e internazionali sul tema dei nutraceutici e degli alimenti funzionali;
- ∅ Istituire gruppi di lavoro su aree tematiche specifiche, per il supporto tecnico delle politiche agro-alimentari e della salute;