

14°

CONGRESSO NAZIONALE SINut

SINut
Società Italiana di Nutrizione

12-14 settembre 2024

Bologna
Hotel Savoia Regency



Programma

EFFICACIA BIDIREZIONALE DI NUOVE MISCELE STANDARDIZZATE A BASE DI ESTRATTI VEGETALI NEL TRATTAMENTO DELL'IPERCOLESTEROLEMIA E NEL CONTROLLO DEL PESO

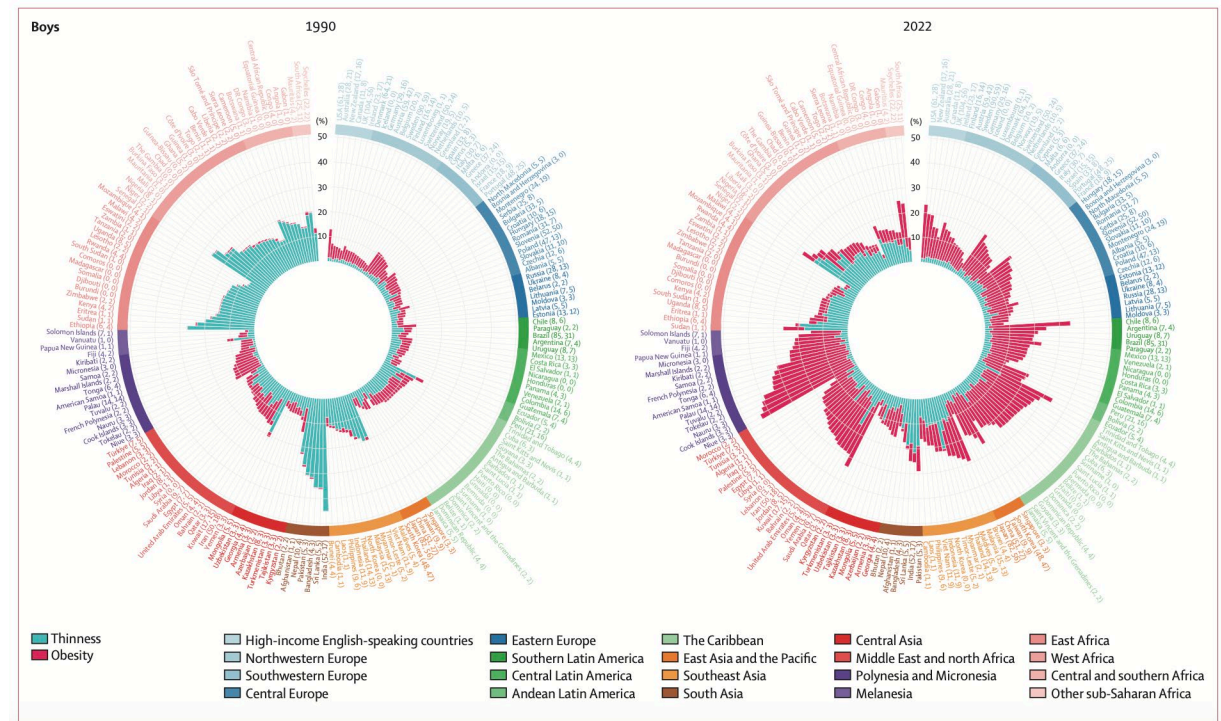
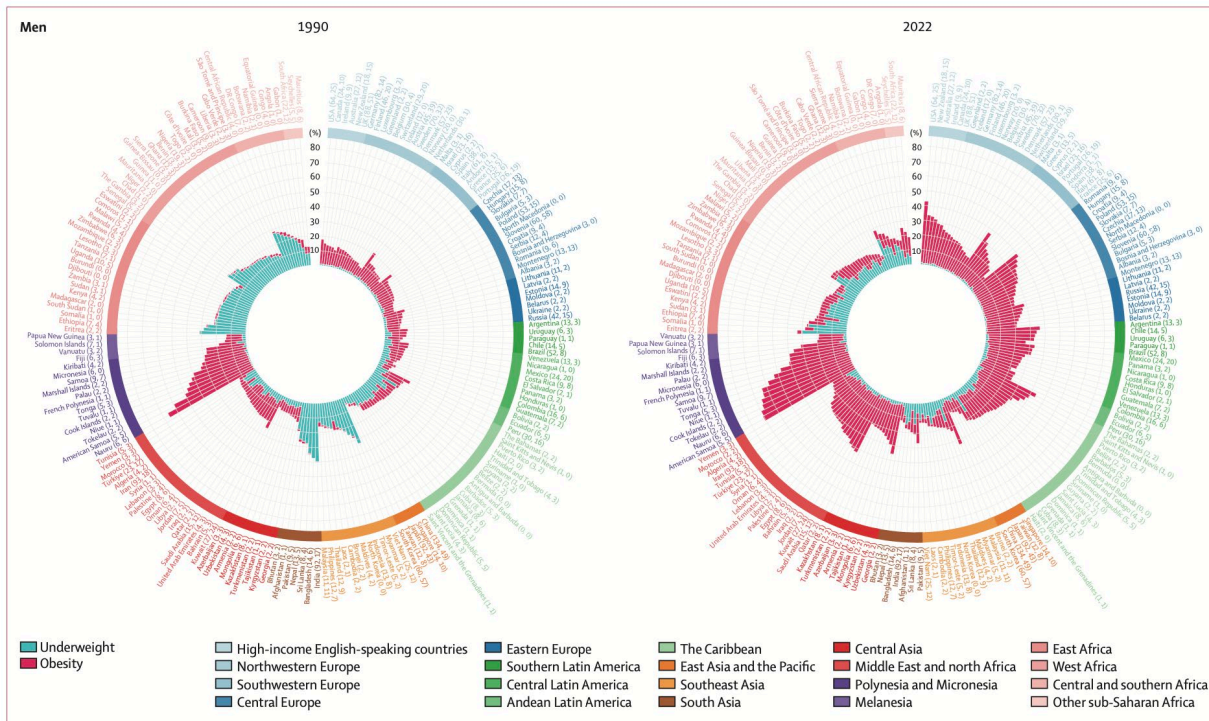
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Professore a c. – Università Degli Studi Di Urbino (DISB)

Nutrizionista

ESNS Fellow

EPIDEMIOLOGIA DELL'OBESITÀ: UNO SPUNTO DI RIFLESSIONE



GESTIONE NUTRIZIONALE DELL'OBESITÀ

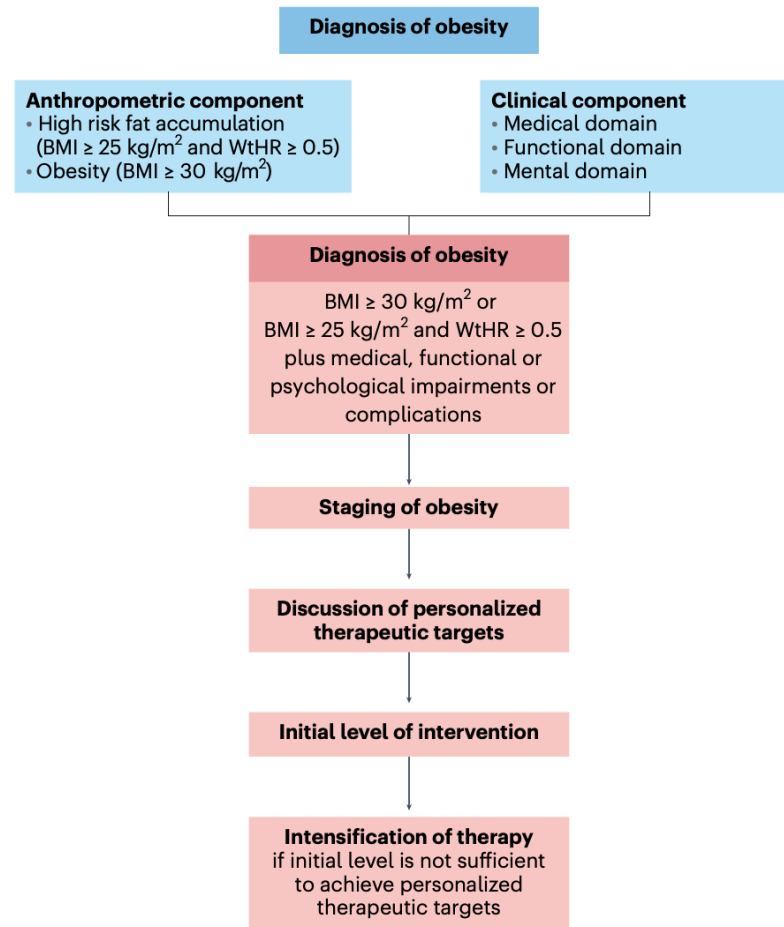
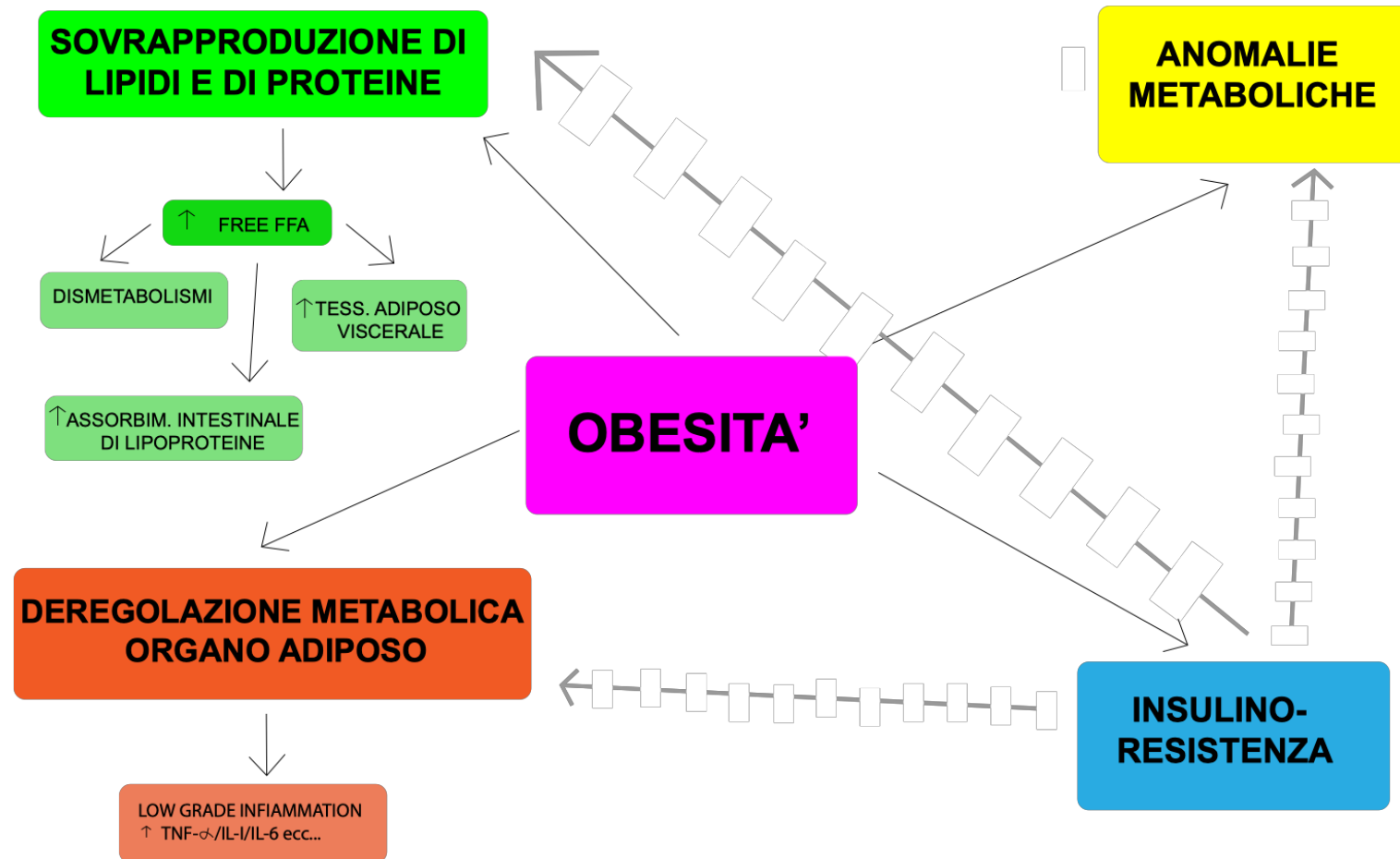


Fig.1 A new framework for the diagnosis, staging and management of obesity in adults.

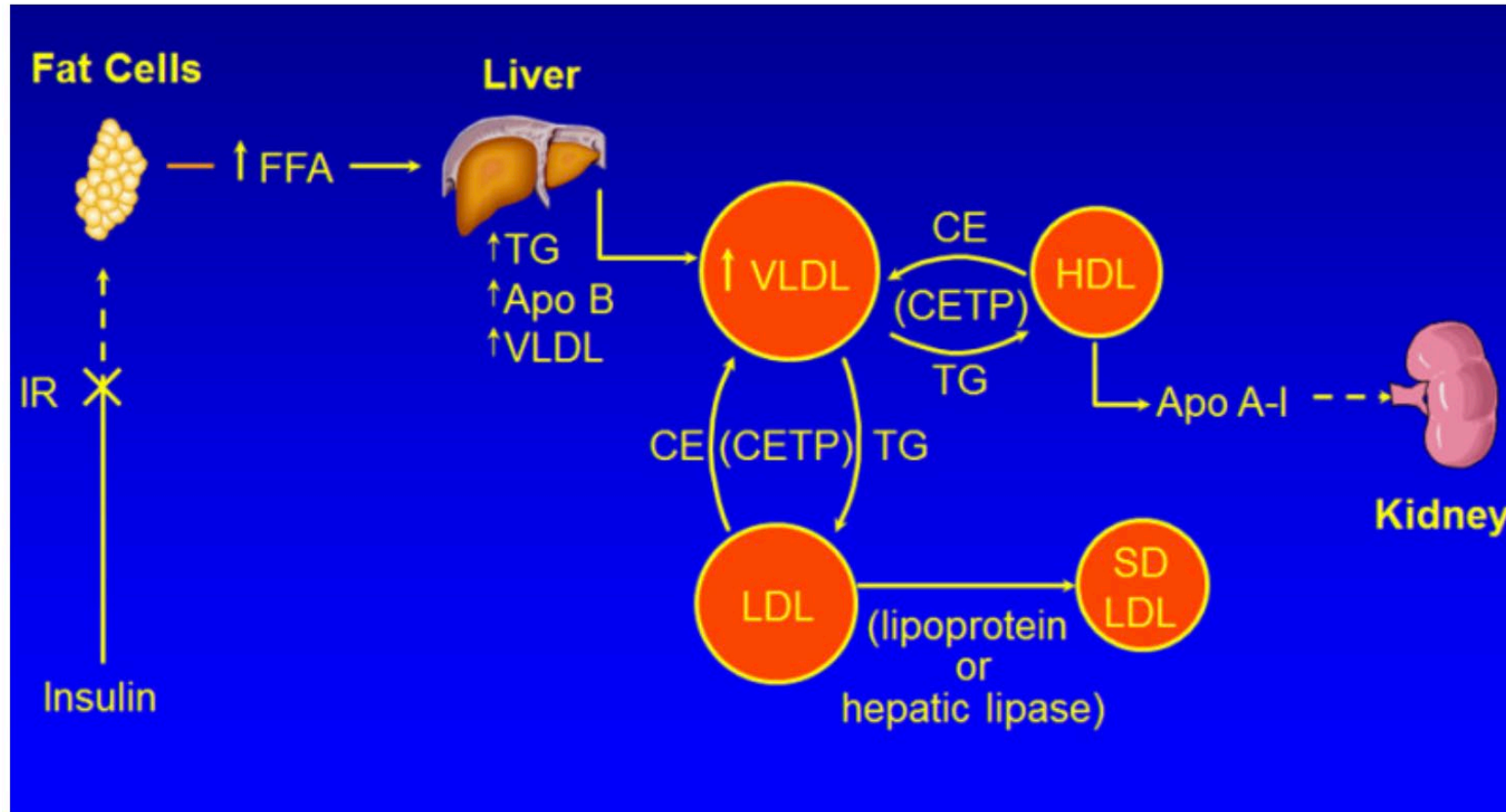
GESTIONE NUTRIZIONALE DELL'OBESITÀ



DISLIPIDEMIA E OBESITA'



DISLIPIDEMIA E OBESITA'



NUOVA SFIDA

2.6.2022

IT

Gazzetta ufficiale dell'Unione europea

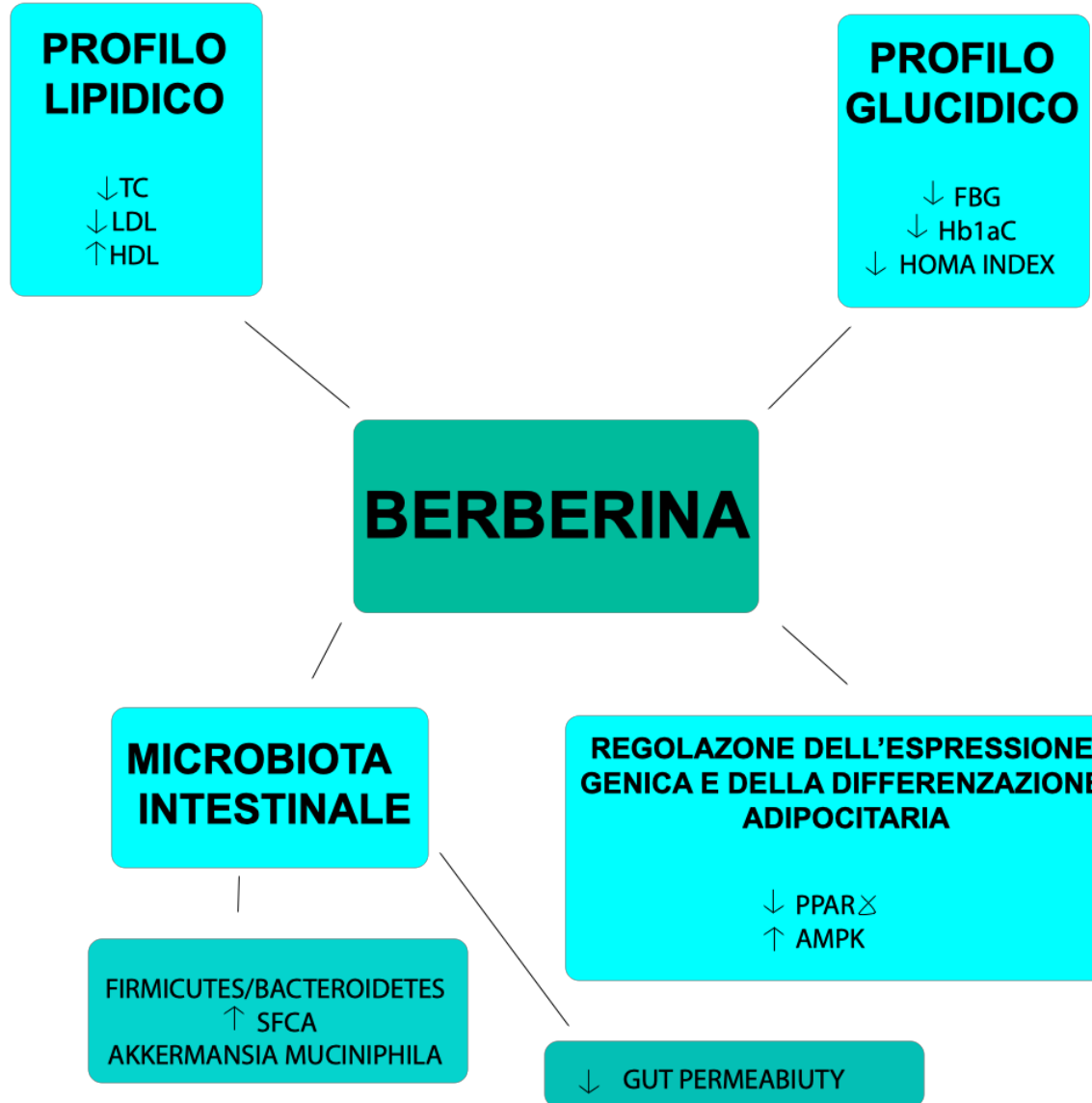
L 151/37

REGOLAMENTO (UE) 2022/860 DELLA COMMISSIONE

del 1° giugno 2022

**che modifica l'allegato III del regolamento (CE) n. 1925/2006 del Parlamento europeo e del Consiglio
per quanto riguarda le monacoline da riso rosso fermentato**

BERBERINA



BERBERINA: PROFILO LIPIDICO

LA BERBERINA RIDUCE IL COLESTEROLO TOTALE (TC), LA COLESTEROLEMIA LDL (LDL-C) E AUMENTA LA COLESTEROLEMIA HDL (HDL-C)

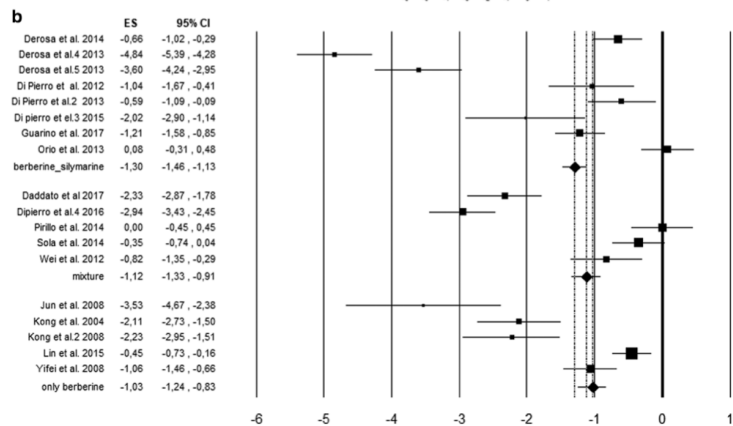
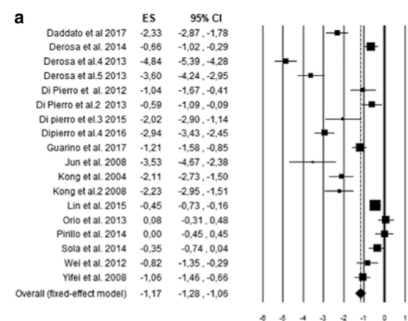


FIG. 2. Effects of berberine on total cholesterol overall (a) and according to formulations (b).

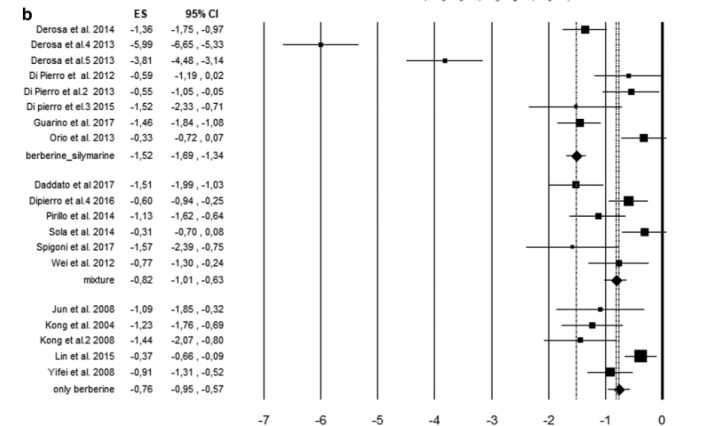
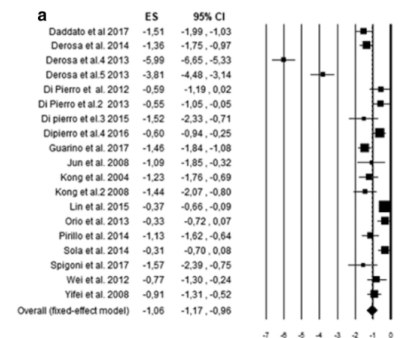


FIG. 3. Effects of berberine on low-density lipoprotein cholesterol; overall (a) and according to formulations (b).

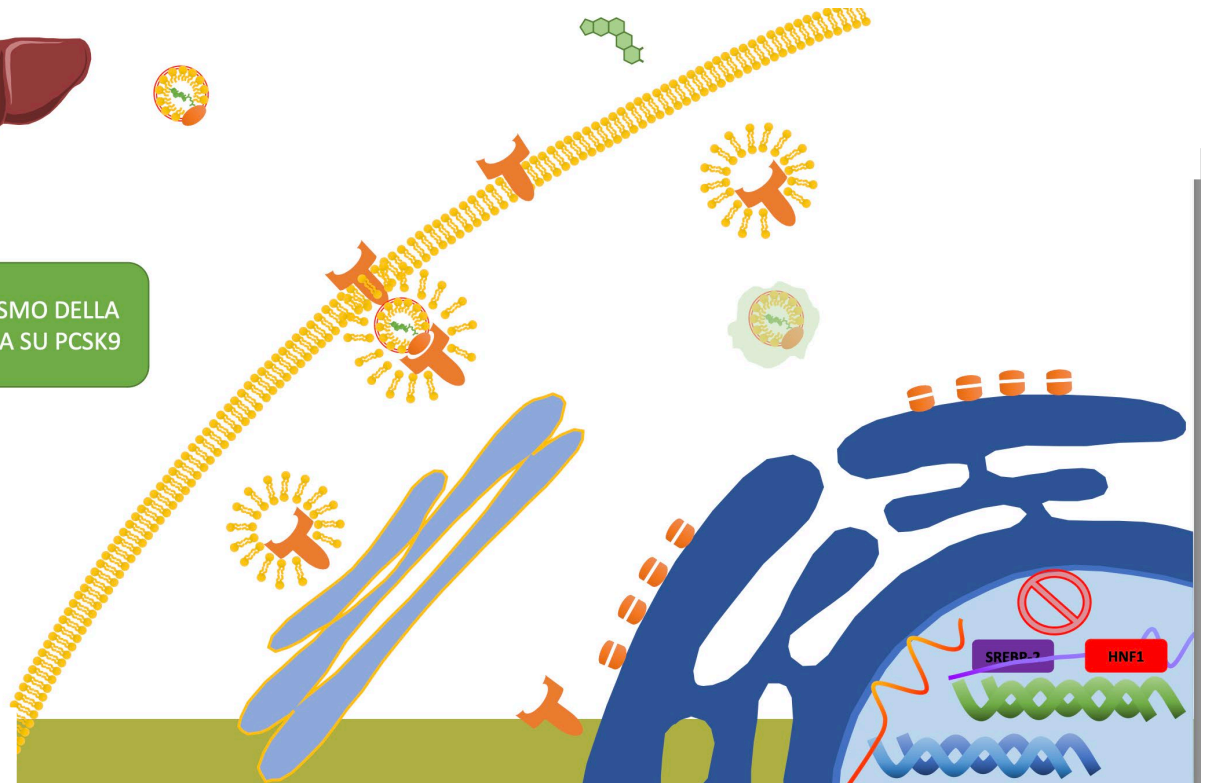
BERBERINA: PROFILO LIPIDICO

BERBERINA

↓ PCSK9

↑ LDL-R

MECCANISMO DELLA
BERBERINA SU PCSK9



BERBERINA: PROFILO GLUCIDICO

Berberina riduce la glicemia a digiuno, l'emoglobina glicosilata (hb1ac), l'insulinemia e l'HOMA-IR

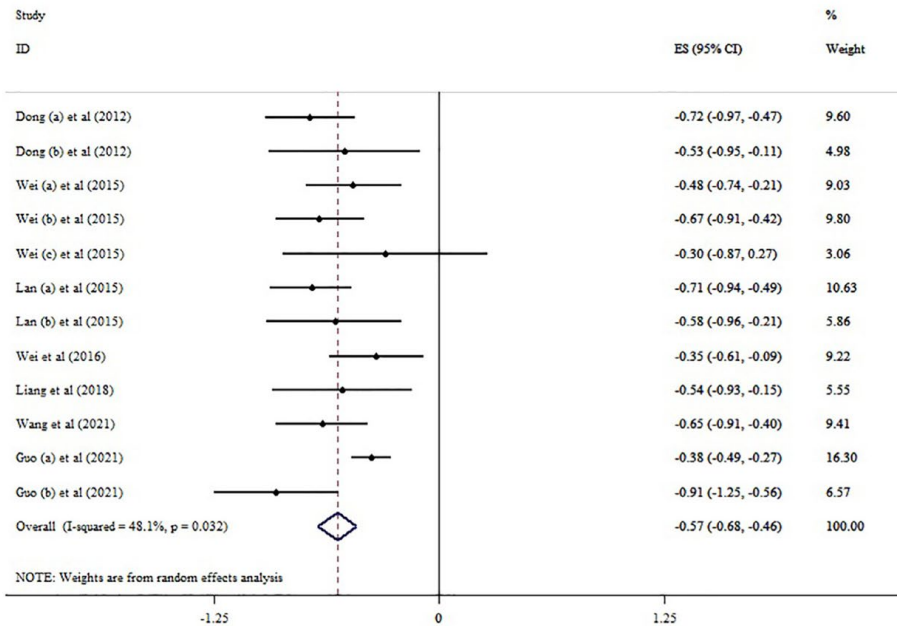


Figure 3. Forest plot with mean difference and 95% confidence intervals (CIs), the effects of BBR supplementation on HbA1c, according to WMD analysis.

Figure 3. Forest plot with mean difference and 95% confidence intervals (CIs), the effects of BBR supplementation on HbA1c, according to WMD analysis.

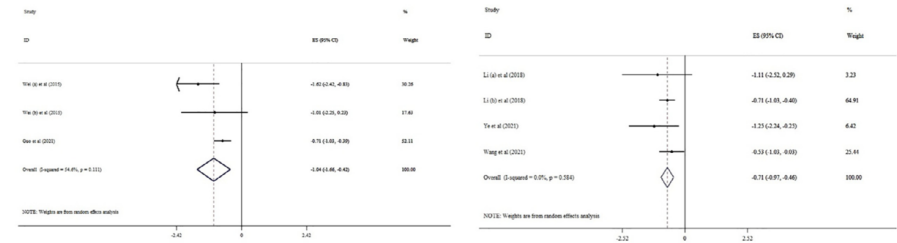


Figure 4. Forest plot with mean difference and 95% confidence intervals (CIs), the effects of BBR supplementation on HOMA-IR, according to WMD (A), and SMD (B) analysis.

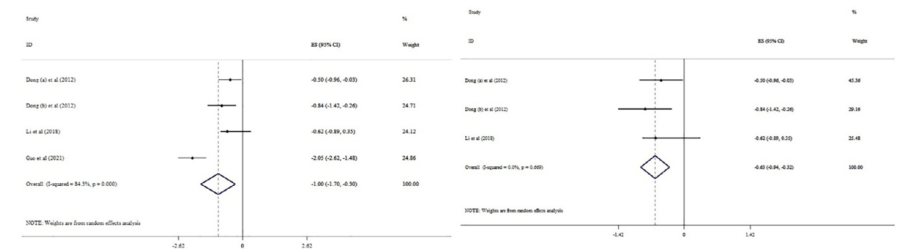
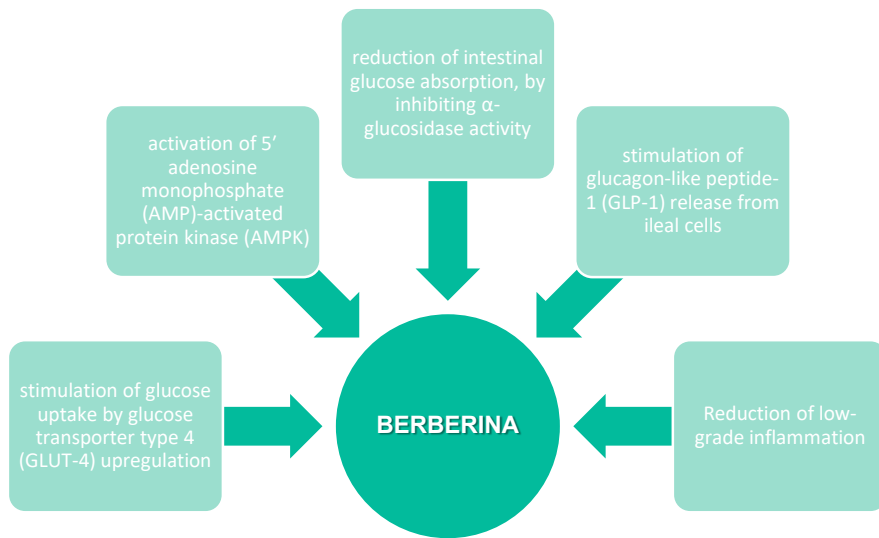


Figure 5. Forest plot with mean difference and 95% confidence intervals (CIs), the effects of BBR supplementation on insulin according to WMD (A), and SMD (B) analysis.

BERBERINA: PROFILO GLUCIDICO



A. Nazari, Z.R. Ghotbabadi, K.S. Kazemi et al.

Clinical Therapeutics 46 (2024) e64–e72

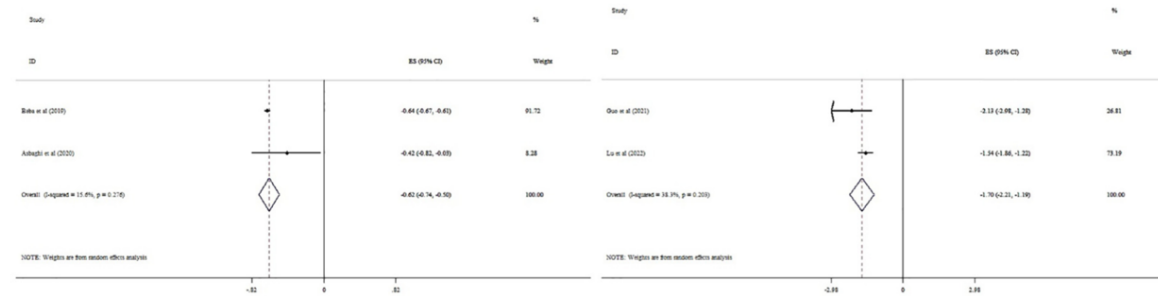


Figure 6. Forest plot with mean difference and 95% confidence intervals (CIs), the effects of BBR supplementation on CRP according to WMD (A), and SMD (B) analysis.

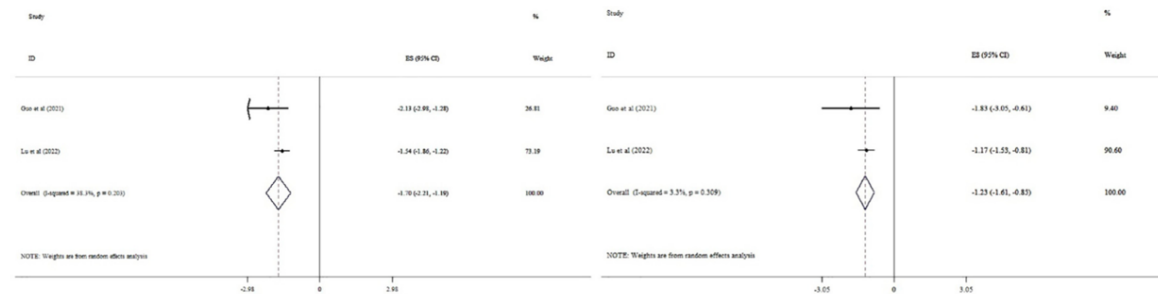
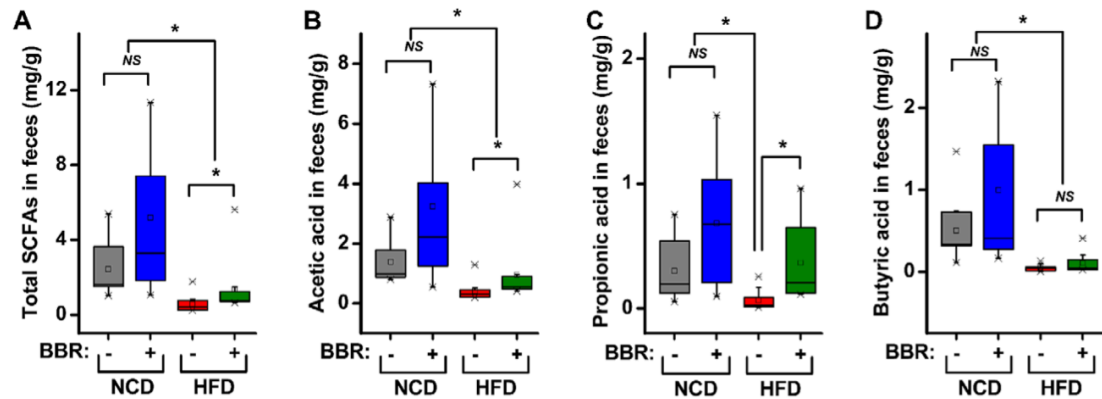


Figure 7. Forest plot with mean difference and 95% confidence intervals (CIs), the effects of BBR supplementation on TNF-a (A), and IL-6 (B) according to SMD analysis.

BERBERINA: MICROBIOTA INTESTINALE



Livelli di SFCA totali (A), acido acetico (B), acido propionico (C) e acido butirrico (D)

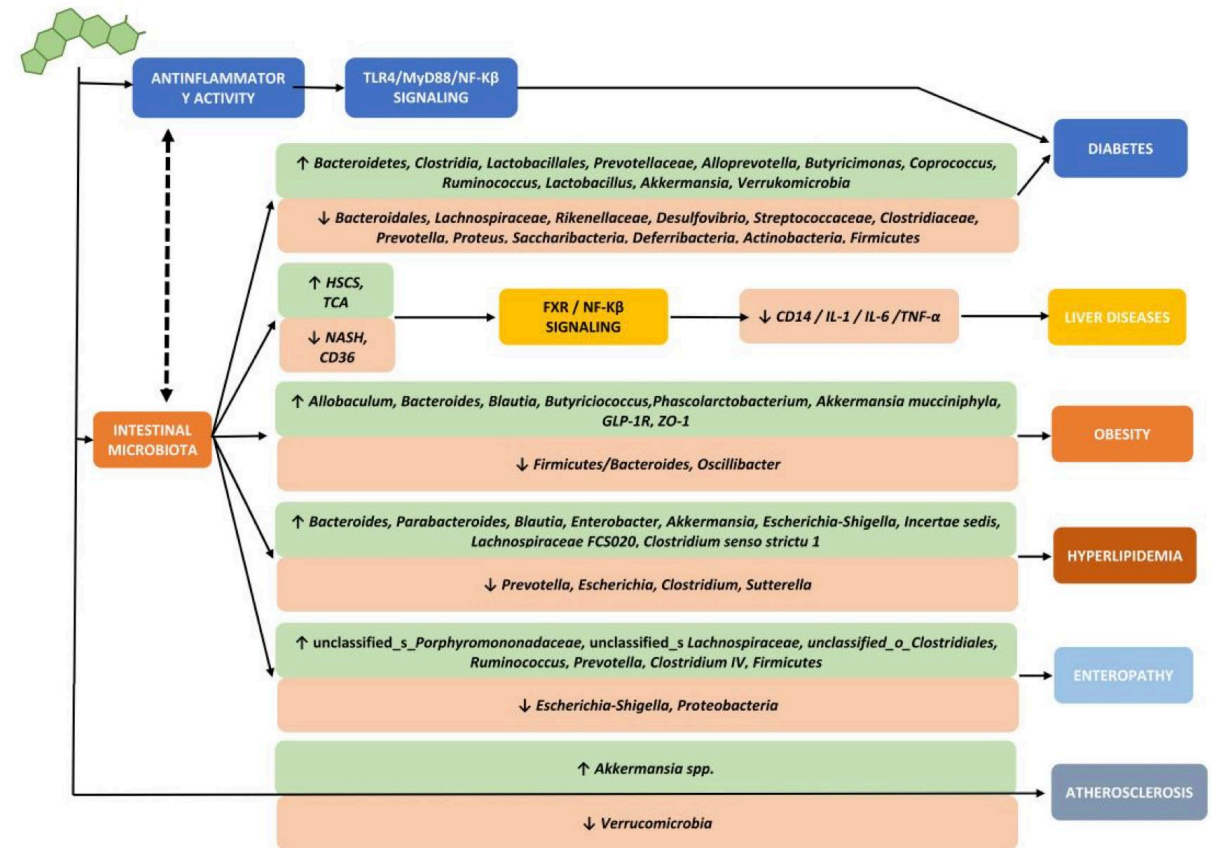
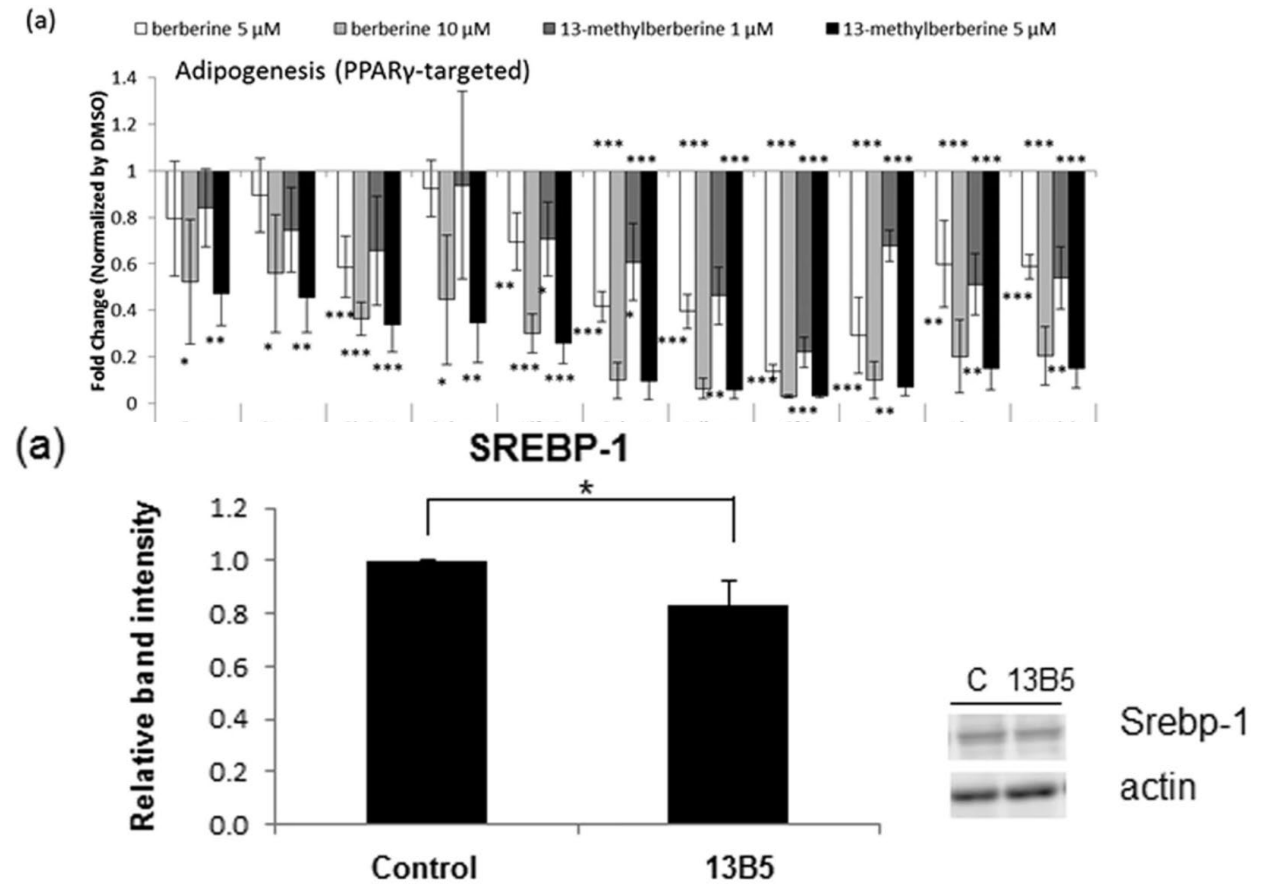
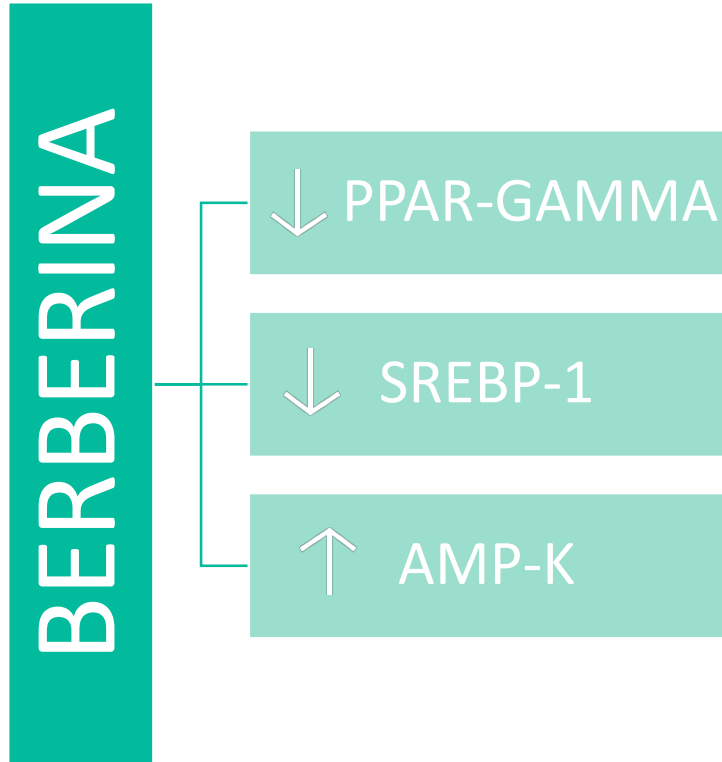


Figure 5. Main actions of berberine on the microbiota and metabolic diseases.

BERBERINA: ESPRESSIONE GENICA



NARINGINA NELL'OBESITA'

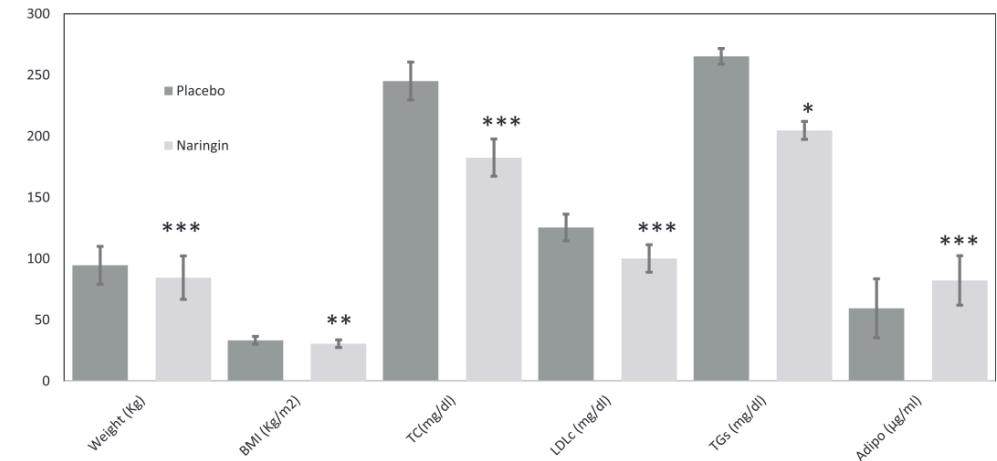
Naringina (450 mg) ha prodotto un miglioramento significativo del profilo lipidico (TC, LDLc) e un calo ponderale superiore rispetto all'assunzione di placebo.

Table 2. Comparison of the results intragroup in the placebo and naringin groups

Measures	Placebo				Naringin			
	Basal		Final		Basal		Final	
	Mean ± SD	Mean ± SD	"δ"	p-value	Mean ± SD	Mean ± SD	"δ"	p-value
Weight (kg)	94.5 ± 14.4	94.6 ± 15.4	0.06	0.97	89.6 ± 18	84.5 ± 17.8	-5.1	<0.001***
BMI (kg/m ²)	33.5 ± 2.94	33.3 ± 3.23	-0.2	0.89	33 ± 2.89	30.6 ± 3.19	-2.42	<0.001***
Waist C (cm)	108 ± 14.1	106 ± 15.5	-2.17	0.06	102 ± 13.6	98.7 ± 15.2	-3.78	<0.001***
Hip C (cm)	108 ± 9.95	107 ± 10.9	-1.07	0.08	110 ± 9.57	106 ± 11.2	-3.21	0.007**
Body fat (%)	36.2 ± 4.55	32.7 ± 6.32	-3.5	0.003**	39.7 ± 4.10	33.8 ± 7.35	-5.93	0.001**
Total cholesterol (mg/dl)	222 ± 14.3	245 ± 24.1	23	0.002**	217 ± 12.7	182 ± 20.2	-35.4	<0.001***
Cholesterol HDL (mg/dl)	40.7 ± 4.85	40 ± 5.68	-0.71	0.64	43.4 ± 8.09	45.1 ± 10	1.71	0.53
Cholesterol LDL (mg/dl)	117 ± 28.2	125 ± 38.3	7.75	0.73	135 ± 18.3	100 ± 17.5	-34.9	<0.001***
Triglycerides (mg/dl)	232 ± 70.9	265 ± 106	33.5	0.035*	217 ± 82.2	204 ± 78.3	-12.3	0.41
Adiponectin (µg/ml)	0.77 ± 0.18	0.56 ± 0.19	-0.15	0.002**	0.72 ± 0.18	0.82 ± 0.25	0.09	0.09

The comparison between the baseline values and the values obtained after the use of placebo or naringin for 90 days are shown. Values are presented in mean and SD (standard deviation). "δ" were obtain from the difference of the basal vs final values. *p < 0.05, **p < 0.01, ***p < 0.001. The Wilcoxon test for intra-group comparison was used.

BMI: body mass index; C: circumference; HDL: high-density lipoprotein; LDL: low-density lipoprotein.

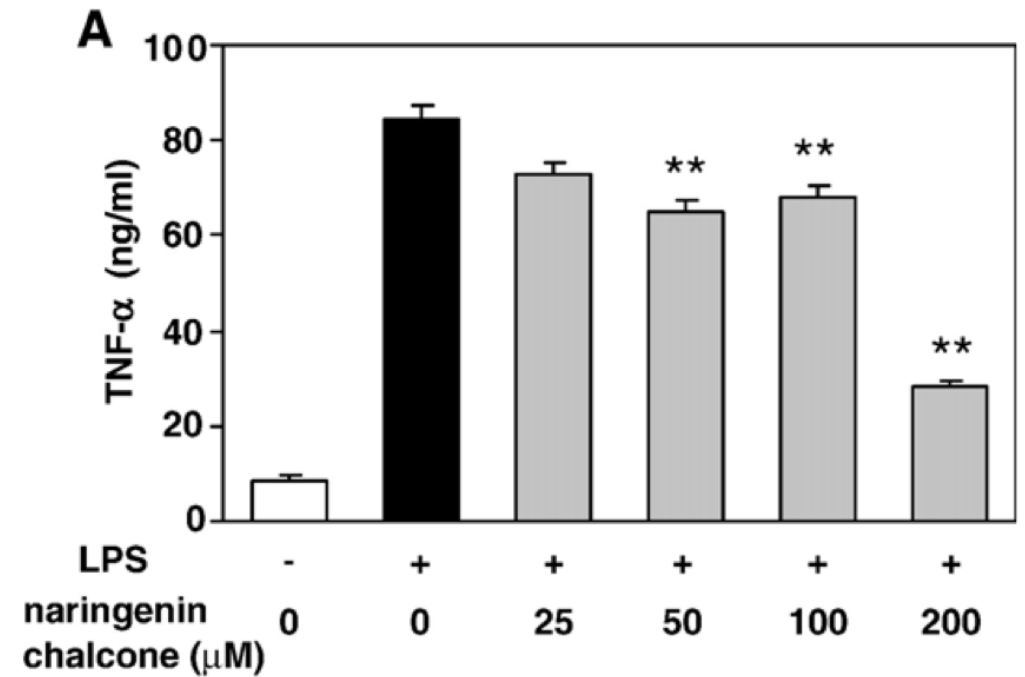
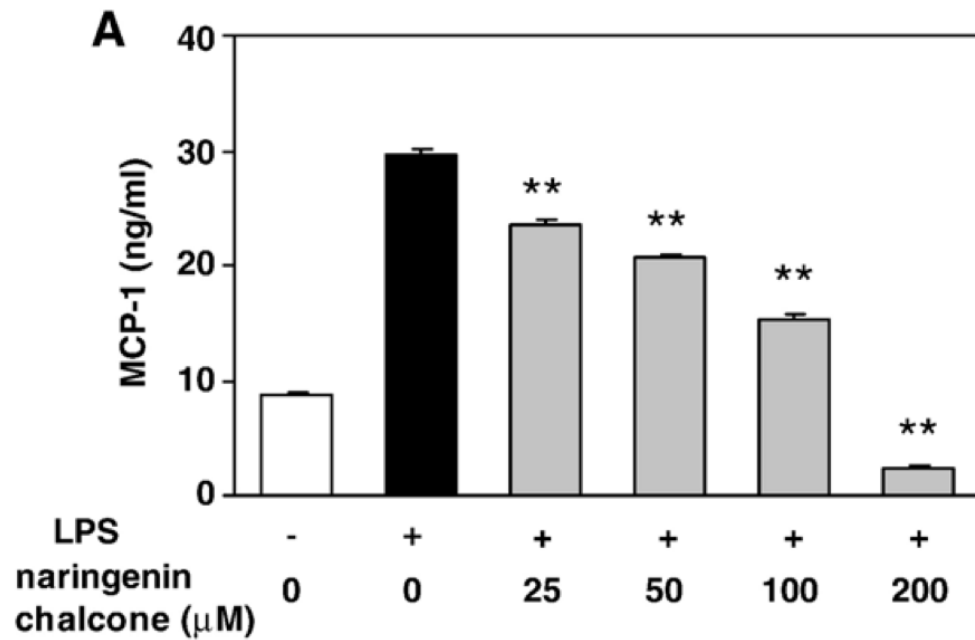


Comparison between the results after the 90-day intake of placebo against naringin. There are observed statistically significant anti-obesogenic and lipid-lowering effects. The values are presented in mean and SD, standard deviation. *p < 0.05, **p < 0.01, ***p < 0.001. "p" results were obtained from the comparison of deltas "δ"; obtained from the difference of the basal vs final values. Mann-Whitney U test was used. The adiponectin values were multiplied by 100 to achieve representativeness in the graph.

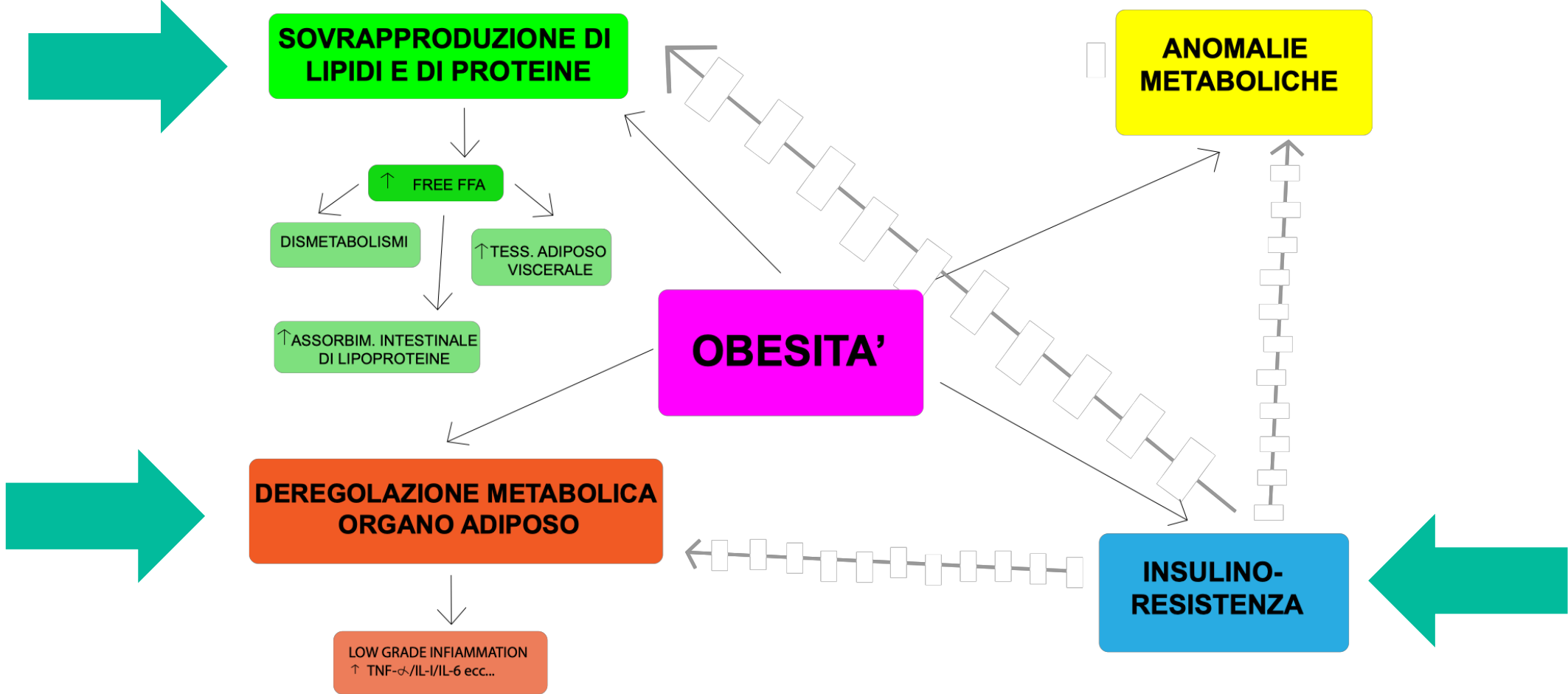
BMI: body mass index; TC: total cholesterol; c: cholesterol; TGs: triglycerides; Adipo: adiponectin.

Figure 1. Comparison of final values of naringin against placebo groups.

NARINGINA E OBESITA'

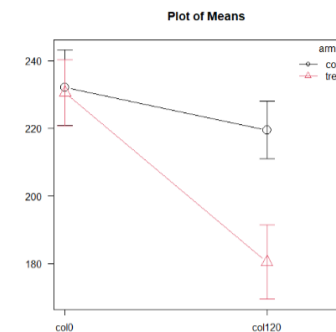
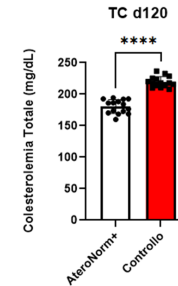
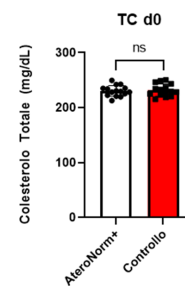
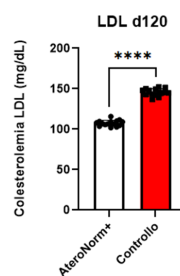
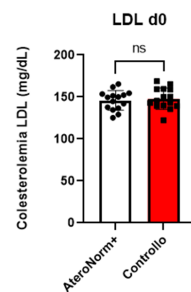
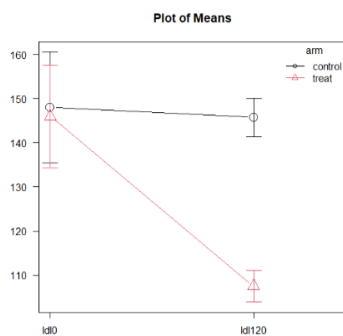


DISLIPIDEMIA E OBESITA'



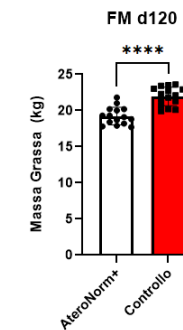
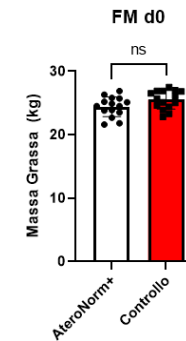
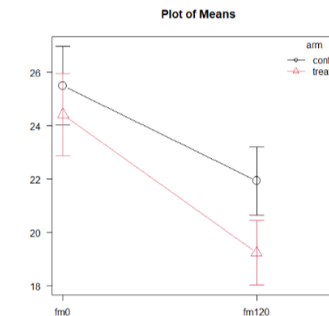
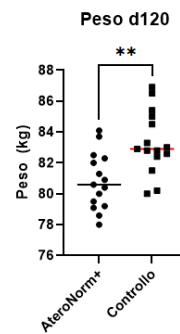
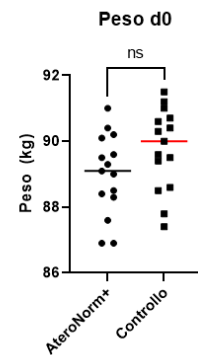
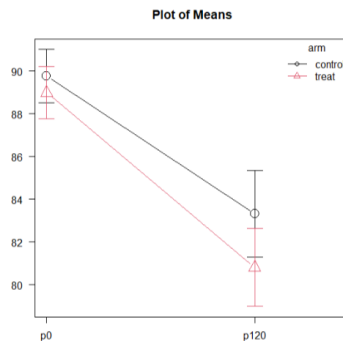
EFFICACIA BIDIREZIONALE DI UNA MISCELA DI ESTRATTI VEGETALI

	Untreated (%)	AN+ (%)	P-value	Untreated (%)	AN+ (%)	P-value
Day 0	148 ± 7.2	146 ± 6.7	ns	232 ± 6.4	230 ± 5.61	ns
Day 120	146 ± 2.5	108 ± 2.1	P<0.001	219 ± 4.91	180 ± 6.35	P<0.001
Variaz. Perc.	-1.6	-26.3	/	-5.4	-21.7	/



EFFICACIA BIDIREZIONALE DI UNA MISCELA DI ESTRATTI VEGETALI

	Untreated (%)	AN+ (%)	P-value	Untreated (%)	AN+ (%)	P-value
Day 0	89.7 ± 0.7	89.0 ± 0.7	ns	25.5 ± 0.85	24.4 ± 0.9	ns
Day 120	83.3 ± 1.17	80.8 ± 1.06	P=0.001	21.9 ± 0.74	19.2 ± 0.7	P<0.001
Variaz. Perc.	-7.2	-9.2	/	-14	-21.2	/





NUTRACEUTICO



14°

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Programma

**“ COMBATTIAMO
L’OBESITÀ E NON LE
PERSONE CON OBESITÀ ”**

D. DI PAULI