## Table S1. Study characteristics.

Authors	Country	Study design	Psychological theoretical model	Sample characteristics	Eating outcome	Measures/tasks	Intervention	Relevant findings
Social psychol	logy	1						1
Sumodhee & Payne, 2016 [32]	UK	Cross- sectional	Theory of Planned Behavior (TPB)	60 dyads of mothers and their children (n=60 mothers aged 54±4.25; n=60 children aged 24±4.35, 65% females)	Healthy eating	<i>Eating Attitude</i> <i>Test</i> (EAT-26) to assess disordered eating behaviors; <i>Ad-hoc self-report</i> TPB-based questionnaire to assess beliefs about healthy eating; <i>Child Feeding</i> <i>Questionnaire</i> (CFQ) to assess parental feeding practices	Not applicable	Maternal restrictive feeding practices were negatively associated with their own attitude and subjective norms (SN) and with their adult children' SN. Furthermore, mothers' TPB beliefs and intentions were positively associated with children' TPB beliefs and intentions. Both for mothers and children, attitude was the strongest predictor of intention, followed by perceived behavioral control (PBC). Finally, mothers' PBC and intention significantly predicted their children intention to eat healthy food
Taghdisi et al., 2016 [64]	Iran	Quasi- experimental (pre/post- test)	TPB	184 healthy children (100% males; mean age not reported)	Healthy eating	Self-report ad-hoc questionnaire to assess TPB variables; 24-h recall questionnaire to assess FV consumption	Experimental group: four 45-min training sessions for students and 60-min training sessions for parents and teachers to increase SN about FV consumption of students. In the first	Whereas no significant differences were observed in both predictors of the intention and FV consumption between groups at baseline, an increase in FV consumption and in the mean scores of the predictors of the intention were observed in the experimental group as

							and second training sessions, students were given information on types of food groups and units of FV consumption; the third session was aimed at improving the attitude towards FV consumption and the PBC and at identifying barriers of FV consumption and strategies to overcome them.	compared to the control group following the intervention
Jeihooni et al., 2021 [40]	Iran	Cross- sectional (study 1); Quasi- experimental (study 2; pre/post/3- months FU)	TPB	Study 1: 350 healthy adults (age: 39.58 $\pm$ 4.86; 100% women). Study 2: 200 healthy adults (experimental group: n=100; age: 38.80 $\pm$ 4.75; 100% women; control group: n=100; age: 39.25 $\pm$ 4.20; 100% women)	Healthy eating	Self-report ad-hoc questionnaire to assess TPB variables and nutritional behaviors	Experimental group: eight 50-min group sessions on health education and promotion of healthy diets preventive of cardiovascular diseases Control group: no intervention	Attitudes, SN and PBC significantly predicted healthy nutritional behaviors (study 1). The TPB-educational intervention was effective in promoting healthy nutritional behaviors as compared to the control group, but only at 3- months FU (study 2)

	Monds et al., 2016 [27]	Australia and USA	Cross- sectional	E-TPB including the HEXACO – humility- emotionality- extraversion- agreeableness- conscientiousness- openess – personality dimensions as additional predictors of the intention	1036 healthy young adults (age: $23.08 \pm 7.43$ ; 63.9% females) classified as underweight (n=41), healthy weight (n=501) and overweight or obese (n=475)	Healthy eating	Self-report ad-hoc questionnaire to assess TPB variables and FV consumption; International Personality Item Pool to assess the HEXACO domains of personality	Not applicable	Overall, the E-TPB model was predictive of FV consumption and the personality dimension consciousness was a significant predictor of the intention. In the healthy weight group only, PBC significantly predicted intention, which in turn was predictive of the behavior
	Malek et al., 2017 [34]	Australia	Cross- sectional	E-TPB including self-identity as a healthy eater, health value and perceived stress as additional predictors of the intention	455 pregnant women (age: 31.6 ± 4.9)	Healthy eating	Self-report ad-hoc questionnaire to assess TPB original and additional variables, dietary intake and adherence to food group recommendations (based on Australian Dietary Guidelines Five Food Group System)	Not applicable	PBC and SN were the most significant predictors of the intention, followed by attitudes and self-identity. Self-identity as a healthy eater also emerged as a significant predictor of the behavior
-	Carfora et al., 2017a [36]	Italy and UK	Cross- sectional (study 1) and RCT (study	E-TPB including past behaviors and self-identity in terms of healthy- eating identity and meat-eating identity as	Study 1: 342 healthy young adults (age: 19.58±2.03; 71% females)	Healthy eating	Self-report ad-hoc questionnaire to assess TPB original and additional variables; Food diary to monitor food	Experimental group: participants received a daily message reminding their goal to reduce RMC (not exceeding two portions per week)	Study 1 showed that the strongest predictors of the intention to reduce RMC were PBC and affective attitude, while healthy eating identity did not represent a significant predictor.

		2; pre/post- test)	additional predictors of the intention	Study 2: 228 healthy young adults assigned to the experimental group (n=116; age: $19.29\pm1.75$ ; 72% females) or the control group (n=112; age: 19.29 $\pm$ 1.04; 71% females)		consumption and healthy eating in terms of red meat consumption (RMC)	and filled in a daily food diary Control group: participants filled in the daily food diary only	In study 2, participants in the experimental group, compared to the control group, increased their intention to reduce RMC and reduced their consumption. Sequential mediation analyses also showed that the increase in the healthy eating identity was associated with a reduction in their meat-eating identity, increasing intention and therefore reducing RMC at T2 in the experimental group
Carfora et al., 2017b [59]	Italy and UK	RCT (pre/post- test)	E-TPB including anticipated regret as additional predictor of the intention	112 healthy young adults (age: 19.37 $\pm$ 1.55; 56% females; n=55 experimental group; n=57 control group)	Healthy eating	Self-report ad-hoc questionnaire to assess TPB original and additional variables; Food diary to monitor food consumption and healthy eating in terms of RMC	Experimental group: participants were asked to self-monitor their RMC daily and received a daily message focused on anticipated regret and a reminder to monitor RMC Control group: participants were only self-monitoring their RMC	Participants in the experimental group significantly increased their intention to reduce RMC, reduced their RMC, and increased anticipated regret following intervention compared to the control group. Furthermore, the effectiveness of messages compared to no messages was mediated by sequential effects of messages on anticipated regret and intention
Ates, 2019 [38]	Turkey	Cross- sectional	E-TPB including self-identity and personal norms as antecedents of both the intention and the behavior	279 healthy adults (age: 35.4; 65% females)	Healthy eating	Self-report ad-hoc questionnaire to assess TPB original and additional variables and healthy nutritional behaviors	Not applicable	Overall, the E-TPB model significantly predicted both the intention and the behavior, with personal norms, self- identity and PBC being the most significant predictors of the intention and self-identity

								and PBC being the most significant predictors of
Diaz et al., 2009 [23]	USA	Cross- sectional	E-TPB including behavioral beliefs and outcome evaluations as antecedents of the attitude, normative beliefs and motivation to comply as antecedents of SN and control beliefs and perceived facilitations as antecedents of PBC	265 healthy adolescents (56% females; mean age not reported)	Healthy eating	Self-report ad-hoc questionnaire to assess the TPB variables; Short acculturation scale for Hispanics (SASH) to assess the acculturation variables	Not applicable	Females showed stronger intention, more positive attitudes and greater subjective norms influences compared to males. Feeling healthy and looking good for females and having a good athletic performance for males significantly predicted attitudes, while the influence of mothers significantly predicted subjective norms in females. Furthermore, receiving support and encouragement represented a significant predictor of PBC in less acculturated adolescents
Seffen & Dohle, 2023 [41]	Germany	Cross- sectional	E-TPB including beliefs as antecedents of the intention and past behavior and habit strength as additional predictors of both the intention and the behaviors	1093 healthy adults (age: 44.35 ±14.51; 50.3% males)	Healthy and sustainable eating	Self-report ad-hoc questionnaire to assess TPB variables, behavioral, normative and control beliefs, past behavior and general intention of meat consumption; Self-Report Behavioral Automaticity Index	Not applicable	The E-TPB overall predicted and explained the motivation to reduce meat consumption, with SN and PBC significantly predicting the intention. Adding past behavior and habit as predictors of the intention did not improve the model's predictive power. Attitude was predicted by behavioral beliefs (i.e., eat a healthier diet), SN by normative beliefs (i.e., family

						to assess habit strength		expectations) and PBC by control beliefs (i.e., time).
Sharma et al., 2006 [20]	USA	Cross- sectional	Social Cognitive Theory (SCT)	159 healthy children (age: 69.9% 10 y/o; 45.6% males)	Healthy eating	Self-report ad-hoc questionnaire to assess the four outcome behaviors (FV consumption, PA, watching TV and water consumption) and related outcome expectations and self-efficacy	Not applicable	Self-efficacy of eating FV significantly predicted FV consumption
Anderson et al., 2007 [21]	USA	Cross- sectional	SCT	712 healthy adults (age: 53.54±14.37; 66% females)	Healthy eating	<i>Food Belief Survey</i> to assess social cognitive variables (social support, self-efficacy, outcome expectations and self-regulation); <i>Self-report ad-hoc</i> <i>questionnaire</i> based on family food shopping and the FFQ to assess nutrition behaviors	Not applicable	Self-efficacy, enacted self- regulatory behaviors, social support and negative outcome expectations significantly predicted healthy eating behaviors
Xu et al., 2016 [28]	China	Cross- sectional	SCT	1208 mothers of preschool children (n=120 mothers of overweight and	Healthy eating	Self-report ad-hoc questionnaire to assess maternal cognitions on their	Not applicable	Positive correlations were observed between maternal social cognitions and PA, but not with healthy nutrition

				obese children, age: $30.79\pm3.66$ ; n=966 mothers of normal weight children, age= $31.87\pm4.19$ ; n=122 mothers of underweight children, age= $31.94\pm3.45$ )		child PA and healthy nutrition behaviors		behaviors. Mothers of obese and overweight children had less self-efficacy in ensuring their children to eat FV everyday
Ho et al., 2016 [30]	Japan	Cross- sectional	Influence of presumed media influence (IPMI) model (extended version including attitude, injunctive and personal norms on individuals' intention to engage in physical activity and a healthy diet)	1055 healthy adults (age: 42.99±14.51; 57.25% females)	Healthy eating	Ad-hoc self-report questionnaire to assess attention to media, perceived influence, attitudes toward a healthy lifestyle, injunctive and personal norms and healthy lifestyle behavioral intention	Not applicable	Perceived media influence indirectly influenced intentions to engage in a healthy life-style through personal norms and attitudes
Lee et al., 2016 [31]	South Korea	Cross- sectional	Information- motivation- behavioral (IMB) skills model	267 patients with metabolic syndromes (Mets) (age: 54±8.1; 54.3% women)	Healthy eating	Ad-hoc self-report questionnaire to assess information (knowledge and recognition of healthy behaviors for Mets), motivation toward a healthy lifestyle, behavioral skills	Not applicable	Personal and social motivation and behavioral skills directly influenced healthy behaviors in patients with Mets, whereas psychological distress indirectly influenced healthy behaviors through motivation and behavioral skills

						and health behavior; the <i>Brief Encounter</i>		
						Psychological		
						Instrument to		
						assess		
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Social and hu	manistic psyc	hology						
Jacobs et al., 2011 [55]	Belgium and UK	RCT (pre/post- test)	E-TPB including the Self- Determination Theory (SDT) variables autonomous and controlled motivations as antecedents of the predictors of the intention (attitude and self-efficacy)	287 healthy adults (age: 40.48 ± 10.55; 66.5% males)	Healthy eating	Self-report ad-hocquestionnaire toassess TPB andSDT variables;items selected fromthe BehavioralRegulationExerciseQuestionnaire IIand the TreatmentSelf-RegulationQuestionnaire toassess autonomousand controlledmotivations ofphysical activityand dietarybehaviors	Experimental group: educational website and one-to-one or group coaching sessions in addition to usual care to improve attitudes, self-efficacy and motivation toward physical activity and dietary behaviors. Participants could freely decide the intervention intensity (frequency) Control group: usual care (i.e, medical screening)	Changes in autonomous motivation significantly predicted changes in attitudes, self-efficacy and intentions to eat healthy. Self-efficacy significantly predicted intention in both contexts (PA and dietary behaviors), whereas intervention intensity was a significant predictor of dietary behaviors change only
Cognitive psyc	chology							
Nørnberg et al., 2016 [29]	Denmark	Cross- sectional	Dual-Process Theory	408 healthy adolescents (78.4% females, age:17.96; 21.6% males, age:18)	Healthy eating	Self-report ad-hoc questionnaire to assess FV consumption and the attitude toward school's rules and	Not applicable	The variables responsibility and healthy buffet habits (i.e., choosing healthy options at buffets) had the strongest positive effect on participants' attitudes toward NLL Overall

						obligations in promoting healthy food choices as well as toward specific type of interventions (i.e., nudge-like interventions, NLI)		students were positive toward less intrusive interventions, such as those that rely on automatic decision-making paths instead of the reflective ones
Cheung et al., 2017 [35]	Netherlands	Study 1: cross- sectional Study 2: experimental (laboratory)	Dual-Process Theory	Study 1: 201 healthy adults (age: 37.67±12.72; 52.73% females) Study 2: 188 healthy young adults (age: 20.66±2.47; 100% females)	Healthy eating	Study 1: State Self-Control Capacity Scale to assess their current state/mood Study 2: Product choice task: participants were asked to choose between a total of ten food pairs, of which seven presented a self-control conflict (healthy vs. unhealthy food)	(Only for study 2) Social proof condition: during the product choice task, a social proof heuristic always promoted healthy food choices (i.e., participants were showed that the majority of previous participants chose the healthy option); No heuristic condition: the product pairs were presented without extra information	In study 1, participants' self- reported hunger was negatively associated with self-control, but there were no effects of hunger on food choices. However, in study 2, hungry participants significantly made less healthy food choices than satiated participants when no social proof heuristic was present, while participants in the social proof heuristic condition made healthier food choices
Aksoy et al., 2021 [39]	Turkey	Cross- sectional	Muddling through theory	688 healthy adults (18.1% aged 18- 25, 47.2% aged 26- 39, 28.1% aged 40- 54 and 6.6 % aged > 54; 68.1% females)	Healthy eating	<i>Ad-hoc self-report</i> <i>questionnaire</i> to assess family, peer and social media influence, fear of Covid-19, attitudes toward giving up	Not applicable	Family and social media influence significantly predictred Covid-19 fear and health consciousness, whereas peer influence significantly predicted health consciousness. Furthermore, both health

						unhealthy food choices and health consciousness		consciousness and Covid-19 fear positively affected attitude, which in turn was positively related to healthy nutrition
Kang et al., 2015 [25]	USA	Cross- sectional	E-Value-Attitude- Behavior (E- VAB) model including hedonic and positive outcomes expectations toward healthy food consumption, interest in healthy food consumption, health values and behavioral intention	1188 healthy adults (age: 53.2% between 18-34; 68.8% females)	Healthy eating	Ad-hoc self-report questionnaire to assess health value, positive outcome expectations, hedonic expectations, interest in healthy food and healthy food choices intentions	Not applicable	Health value was the main predictor of healthy food choices at restaurants, as well as a key predictor of hedonic expectations toward healthy food (both directly and indirectly through interest in healthy food), positive outcome expectations and interest in healthy food. Furthermore, customers' intentions to eat healthy were enhanced by hedonic expectations and positive outcome expectations
Di Maio et al., 2022 [51]	Germany, Poland and Australia	Longitudinal (12 weeks FU)	Habit formation theory	135 healthy young adults (age: 24.8±7.3)	Healthy eating	Ad-hoc self-report questionnaire to assess novel healthy eating behaviors-related automaticity, intrinsic rewards, anticipated regret and self-efficacy	Not applicable	Higher-than-usual levels of intrinsic reward, anticipated regret and self-efficacy of the same day but not of the previous day were associated with higher within-level automaticity
Bui & Fazio, 2016 [58]	USA	Experimental (laboratory)	Implicit misattribution model (IMM)	Study 1: 168 healthy young adults (58.3% females; mean age not reported).	Healthy eating	Video Surveillance Procedure: participants were asked to be vigilant for two target foods	Study 1 and study 2: Evaluative conditioning (EC) condition: CS and US were paired during the	Study 1: participants in the EC condition were less sensitive to food taste and more sensitive to food health in their eating intentions, showing that

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		Study 2. 92 healthy	(chicken pot pie vs.	procedure	food items increased sensitivity
		young adults	responding by	Control condition: CS	to health and decreased
		(32.6% females:	hitting the space	and US were	sensitivity to taste with a
		(32.070 Termates,	har Koy	and US were presented congretaly	sensitivity to taste with a
		mean age not	val. Key	presented separately	generalization effect of the
		reported)	(CS) and	Staday 2. montining at a	food and CS
			(CS) and	Study 2: participants	lood and CS+.
			ational: (US) man	were first asked to	Study 2. the second insting
			sumult $(US)$ were	categorize loods	Study 2: the generalization
			embedded in this	based on meal-time	effect with regard to health
			visual stream. CS	(i.e., breaklast vs.	sensitivity was confirmed, but
			were loods either	hoolthingga (hoolthing	only in participants who had
			high in taste and	feed we web celther	categorized food by health
			low in health or	food vs. unnealthy	
			low in taste and	100d) and then	
			healthy CS foods	tonpleted the same	
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			nositive US and		
			four unboolthy CS		
			foods were paired		
			with pegative US		
			with negative 05.		
			Following the task		
			narticipants were		
			asked to rate the		
			likelihood that they		
			would eat an		
			offered serving of		
			42 food items		
			(including the eight		
			CS foods seen in		
			the previous task		
			and 34 novel		
			foods)		
			,		

Wiedemann et al., 2014 [45]	Germany and UK	Longitudinal (2-weeks FU, T1, and 4-weeks FU, T2)	Associative Cybernetic Model	127 healthy adults (age: 31.7±10.1; 74% women)	Healthy eating	Ad-hoc self-report questionnaire to assess intention, self-efficacy (at baseline), FV consumption and intrinsic reward (at T1) and habit strength (at T2)	Not applicable	The intrinsic reward value of FV consumption strengthened FV consumption through two pathways: (1) intrinsic reward had an indirect effect on habit strength, whereby rewards influenced the frequency of eating FV, which in turn influenced habits; (2) moderating effect in which consumption frequency had a stronger effect on habit when consumption was deemed as more rewarding
Binder et al., 2019 [60]	Austria	Experimental (laboratory)	Social Learning Theory (SLT)	108 children (age=8.19±1.12; 59.3% females) assigned to the majority (n=39), minority (n=37) or control (n=32) condition and 108 parents (age=41.88±5.88; 77.1% women)	Healthy eating	Snack choice test to assess food choices (fruit vs. candy);Food Neophobia Scale to assess levels of neophobia of children from parents' perspectiveTask: children were exposed to an audio-visual cartoon movie in which only one child was eating raspberries (minority condition), a group of children were	Not applicable	Children in the minority condition, compared children in the majority and control conditions, were more likely to think that most of their peers did not like raspberries, leading to a lower likelihood to choose raspberries

						eating raspberries (majority condition) or none of the presented characters was eating raspberries or any other snack (control condition)		
Binder et al., 2020 [61]	Germany	Experimental (laboratory)	Prospect theory and the Reactivity of Embedded Food Cues in Advertising Model	161 children (age: 7.96±1.32; 47.2% girls) assigned to the control (n=48), gain-framed (n=55) or loss-framed (n=58) condition	Healthy eating	Snack choice test to assess food choices (fruit vs. candy);Ad-hoc self-report questionnaire administered to parents to assess nutritional mediation styles (restrictive or active)Task: children were exposed to an audio-visual cartoon movie with gain-framed nutritional messages (experimental condition 1), loss- framed nutritional messages (experimental condition 2) or a message without	Not applicable	Overall, the study showed that framing nutritional messages in cartoon movies can positively influence children's fruit intake. Specifically, the gain- framed messages generated greater awareness of gain- framed arguments than the loss-framed and the control conditions. Even though both experimental conditions were effective in promoting fruit consumption, it seems to be easier for children to state gain arguments compared to loss arguments

						reference to food (control condition)		
Weibel et al., 2014 [56]	Switzerland	Experimental	Self-licensing and goal theory	Study 1: 62 healthy young adults (age: 23.98±3.51; 51.6% females) Study 2: 106 healthy young adults (age: 23.61±8.14; 41.5% females)	Healthy eating	Study 1 and study 2: <i>Task:</i> in a pre-test, participants evaluated 42 food options with regard to their healthiness and were then asked to choose four times between a healthy and an unhealthy food option; <i>Willingness to pay</i> (WTP) to assess participants subjective value attributed to a certain product	Study 1: Altruism condition: participants were instructed to recall an altruistic action carried out in the past and to write a short essay about it. Egoism condition: participants were instructed to recall an egoistic action carried out in the past and to write a short essay about it. Study 2: Completed altruism: participants were instructed to recall a completed altruistic action. Intended altruistic action. Intended altruistic action. Completed egoism: participants were instructed to recall an intended altruistic action.	Study 1: participants in the egoism condition chose healthy food options more often than participants in the altruism condition, supporting the idea that the activation of an altruistic or egoistic self- concept may influence healthy food choices. Furthermore, participants who wrote about an egoistic action were willing to pay more for healthy products than those who wrote about an altruistic action. Study 2: action stage moderated the self-licensing effect on food choices. The intention to perform an altruistic action led participants to choose healthy foods more often, as well as to pay more for the products

							completed egoistic action. Intended egoism: participants were instructed to recall an intended egoistic action	
Cognitive and	l social psycho	ology					uenon	
Fleig et al., 2014 [46]	Germany	Longitudinal (6-months FU)	Cross-behavior regulation framework	470 patients in cardiac and orthopaedic rehabilitation (age: 50.46±9.07; 59% women)	Healthy eating	Godin Leisure- Time Exercise Questionnaire to assess physical exercise; Self-Report Habit Index to assess exercise habit strength; Trasnfer Cognition Scale (TRACS) to assess transfer cognitions at T2; ad-hoc self-report questionnaire to assess healthy nutrition.	Not applicable	Regular exercise predicted engagement in healthy diets six months later. Furthermore, participants with more resources (i.e., higher levels of habit strength) were more likely to use transfer cognitions
Health psycho	ology							
Schwarzer & Renner, 2000 [47]	Germany	Longitudinal (6-months FU)	Health Action Process Approach (HAPA)	580 healthy adults (age=43; 48% males)	Healthy eating	Ad-hoc self-report questionnaire to assess risk perception, outcome expectancies, action self-efficacy,	Not applicable	Overall, the more self- efficacious participants were, better nutrition behaviors were reported Specifically, intentions were predicted by outcome expectancies and perceived

						intention, coping self-efficacy, low- fat dietary intake and high-fiber dietary intake		self-efficay, with intentions representing good predictors of both low-fat and high-fiber dietary intake
Zhou et al., 2015 [48]	China, Germany, Australia and Poland	Longitudinal (2-weeks, T2, 4-weeks, T3)	HAPA	286 healthy young adults (age: 23.64 ± 4.44; 72.4% females)	Healthy eating	Self-report ad-hoc questionnaire to assess FV consumption intention and FV intake (at baseline), action control and action planning (at T2) and FV consumption (at T3).	Not applicable	Action control and action planning sequentially mediated the relation between intention to eat FV and future FV intake
Fleig et al., 2015 [26]	Germany, Canada, Spain, Greece, Italy and Australia	Cross- sectional	E-HAPA including cross- behavior cognitions	416 healthy adults from Southern Europe (age: 34.6) and 351 from Germany (age: 42.3)	Healthy eating	General Practice Physical Activity Questionnaire (GPPAQ) to assess physical acitivity; The Mediterranean Diet Adherence Screener to assess the adherence to a healthy diet; Ad-hoc self-report questionnaire to assess single health behavior cognitions (risk perception, positive outcome expectancies, self- efficacy, intentions, action planning and	Not applicable	Transfer cognitions were positively associated with intention to engage in PA and to eat healthy. Specifically, participants who believed that they could compensate for their unhealthy eating with regular exercise, reported lower healthy eating intentions. Contrarely, transfer cognitions were positively associated with healthy eating intentions, with participants believing that regular exercise supported their engagement in healthy dietary behaviors being more intended to stick to a healthy diet. Furthermore, action planning and action control mediated the

						action control) and cross-behavior cognitions (compensatory health beliefs and transfer cognitions)		relation between intention and action. Finally, individuals with higher positive outcome expectancies and self-efficacy reported higher intention to engage in PA and consume a healthy diet
Amrein et al., 2017 [33]	Switzerland, UK and USA	Cross- sectional	E-HAPA including compensatory health beliefs	232 healthy adults (age: 27.3±8.5; 76.3% females) included for quantitative analyses; 79 healthy adults (age 26.26±8.84 for the FV consumption group and 28.09±10.05 for the unhealthy snack group; 68.4% females) included for qualitative analyses	Healthy eating	Ad-hoc self-report questionnaire to assess compensatory health beliefs (CHB), risk perception, self- efficacy, outcome expectancies, intention, action planning, action control and eating behaviors	As part of a previous RCT, participants were assigned to four experimental conditions in a 2x2 research design: different eating goals (increasing FV consumption or eating fewer unhealthy snacks) vs. intervention conditions (social support or control condition)	Quantitative findings showed that within the HAPA framework CHBs significantly predicted the intention but not the behavior and were significantly and negatively associated with intention and action planning only in the unhealthy snack condition, but not in the FV condition. Qualitative findings showed that CHBs were more likely to be present and were more diverse in the unhealthy snack condition. Overall, these findings suggest that CHBs play a more relevant role in relation to unhealthy snacking than fruit and vegetable consumption
Evans et al., 2017 [50]	UK	Longitudinal (1-week FU)	Temporal Self- Regulation Theory (TST)	133 healthy young adults (age: 23.92±7.40; 68.4% females)	Healthy eating	Self-report ad-hoc questionnaire to assess beliefs concerning FV consumption, connectedness	Not applicable	Beliefs about short-term and long-term positive outcomes predicted the intention to eat healthy, with intentions and past behavior predicting FV consumption. Furthemore, past

beliefs, valence	behavior moderated the
beliefs, timing	relation between intention and
beliefs;	behavior, which was stronger
Composite brief	when past behavior was
<i>measure</i> to assess	increasing
intentions,	_
behavioral	
prepotency (past	
behavior	
frequency, habit	
strengths,	
perceived cues) and	
self-regulatory	
capacity	

Abood et al., 2003 [52]	USA	RCT (pre/post- test)	HBM	63 healthy adults randomized to the experimental group (n=38; age=34.3; 96% females) or the control group (n=25; age=37.9; 92% females)	Healthy eating	Ad-hoc self-report questionnaire to assess HBM constructs (health concerns, perceived susceptibility, perceived severity, perceived benefits, perceived barriers and self-efficacy) in relation to nutrition, cardiovascular disease (CVD) and cancer; personal health assessment of risk of CVD and cancer; nutrition knowledge; dietary behaviors.	Experimental group: participants took part to eight 1-hour weekly educational sessions to promote knowledge and beliefs to improve or maintain positive dietary practices preventive of CVD and cancer. Control group: participants only filled-in the baseline and post-intervention questionnaires	The HBM-based intervention was effective in producing significant increases in nutrition knowledge and significant decreases in energy, fat, saturated fat and cholesterol intake.
Health and so Feldman & Mayhew, 1984 [43]	cial psycholog USA	gy Longitudinal (2-weeks FU)	E-Health Belief Model (E-HBM) integrating Fishbein's attitude-behavior theory and	120 healthy young adults (51.6% females; mean age not reported)	Healthy eating	<i>Ad-hoc self-report</i> <i>questionnaire</i> to assess behavioral intention, facilitating conditions, habit, affect, perceived	Not applicable	Overall, the model predicted both nutritional behaviors (sodium and meat consumption). Specifically, meat consumption was best explained by habit, whereas sodium consumption was

			Triandis' theory of social behavior			consequences, subjective values, normative beliefs, motivation to comply, role belief, personal normative belief, self-concept and meat and sodium consumption		predicted by habit, facilitating conditions and behavioral intention. Affect represented the best predictor of sodium consumption behavioral intention, whereas personal norms beliefs, perceived consequences and affect significantly predicted meat consumption
Clinical psych	ology							
Jacobs et al., 2013 [63]	USA	Uncontrolled clinical trial	Mindfulness theory	26 healthy young adults (age=21.35±4.76; 77% females)	Healthy eating	Toronto Mindfulness Scale (TMS) to asses state mindfulness; Philadelphia Mindfulness Scale to assess present- moment awareness; Five-Facet Mindfulness Scale to assess mealtime awareness; Ad-hoc self-report questionnaire to assess healthy eating	1-hour mindfulness group training including didactic and experiential components	Following intervention, a significant increase in state mindfulness and in the rate of healthy consumption was observed, providing preliminary support that a brief session of mindfulness training can have an immediate effect in changing habitual responses to oneself and the environment
Hunecke & Richter, 2018 [37]	Germany	Cross- sectional (pre/post- test)	Mindfulness theory	310 healthy adults (age=36.1±11.8; 77% females)	Sustainable eating	Ad-hoc self-report questionnaire to assess personal norms, sustainable food consumption	Not applicable	The mindfulness dimension acting with awareness was significantly and directly associated with sustainable food consumption, whereas the

						behaviors (in terms of organic, local and seasonal food purchase and less meat food consumption), construction of meaning in life and sustainability- related meaning; <i>Five-Facet</i> <i>Mindfulness</i> <i>Questionnaire</i> to assess mindfulness		association between the dimension <i>observing</i> and sustainable food consumption was mediated by construction of meaning, sustainability- related meaning and personal norms
Stanszus et al., 2019 [62]	Germany	RCT (pre/post- test/7- months FU)	Mindfulness theory	76 healthy adults (age: 31; 71.34% women) assigned to the intervention group (n=37) or the control group (n=39)	Sustainable eating	Comprehensive Inventory of Mindfulness Experience (CHIME) to assess general mindfulness; Mindful eating questionnaire to assess mindful eating; Ad-hoc questionnaire to assess attitudes toward sustainable and healthy food consumption; Sustainable Consumption Behavior-Nutrition scale to assess	Experimental group: mindfulness-based intervention (MBI) consisting of eight weekly group sessions of 90 mintues and individual daily practices consisting of meditation practices, group discussions and guided reflections. Control group: waiting condition.	MBI was effective in enhancing mindful eating. Effects on sustainable food consumption only appeared in the qualitative data as content related to pre-behavioral stages, attitudes and intentions. First FU results instead suggested a slower process for behavioral change toward more sustainable food choices

		sustainable eating	
		behaviors (in terms	
		of both ecological	
		and economic	
		impacts);	
		Qualitative	
		interviews to assess	
		participants'	
		general experience	
		of the Mindfulness-	
		based intervention	
		(MBI), as well as	
		their food	
		behaviors and	
		shopping routines	
		and possible	
		changes over those	
		routines during the	
		past weeks	

Menezes et al., 2015 [57]	Brazil	RCT (pre/post- test)	Transtheoretical model (TTM)	The women attending the Primary Health Care assigned to the experimental group (n=43; age: $55.9 \pm 9.7$ ) or the control group (n=34; age: $60.4 \pm 13.7$ )	Healthy eating	Self-report aa-hoc questionnaire based on the 24-h dietary recalls to assess food consumption and eating habits related to fat; ad-hoc index to assess stage of change (SOC)	Experimental group: routine activities (physical exercise, nutritional education and individual nutritional care) + SOC-specific interventions: pre- action group (participants in precontemplation, contemplation and preparation SOC) and action group (action and maintenance SOC). Control group: routine activities (physical exercise, nutritional education and individual nutritional care)	Participants in the experimental group showed an improved body perception, reduced weight and BMI, and lower consumption of calories and foods high in fat post- intervention compared to the CG
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Aimage et al., 2004 [53]		(pre/post- test)	TPB variables as predictors of SOC	(n=81 in the precontemplation stage, age=36.76 $\pm$ 10.38, 59.2% females; n=117 in the contemplation stage, age=34.17 $\pm$ 11.15, 82.90% females; n=311 in the preparation stage, age=35.53 $\pm$ 9.41, 84.88% females; n=79 in the action stage, age=38.54 $\pm$ 11.01, 89.87% females; n=199 in the maintenance stage, age=37.61 $\pm$ 9.87, 85.42% females)	eating	self-report da-noc questionnaire to assess TPB variables and TTM stages of change towards healthy food choices.	<ul> <li>Attribute change</li> <li>intervention: message</li> <li>designed to change</li> <li>the beliefs</li> <li>discriminating</li> <li>between individuals</li> <li>who were intended to</li> <li>eat a low-fat diet</li> <li>and those who were</li> <li>not intended to.</li> <li>PBC change-</li> <li>intervention:</li> <li>enhancement of self-</li> <li>efficacy through the</li> <li>promotion of personal</li> <li>mastery and the use of</li> <li>persuasion, modelling</li> <li>and relaxation</li> <li>techniques.</li> <li>Control group</li> <li>(information</li> <li>intervention):</li> <li>included current UK</li> <li>government</li> <li>recommendations</li> <li>concerning fat intake</li> <li>and a list of food high</li> <li>in fat.</li> </ul>	increased in a linear fashion in successive SOC, with participants in later stages of change having more positive evaluations of eating a low-fat diet, perceiving more social pressure in doing so, being more confident in their ability to succeed and having a stronger intention compared to those in the earlier SOC. Furthermore, the attitude change intervention advanced individuals from the pre- contemplation stage, with age and PBC predicting progression from the contemplation and action stages; behavioral intention predicted progression from the preparation and maintenance stages and age predicted progression from the action stage

							<ul> <li>their intervention</li> <li>leaflet and were</li> <li>randomized to two</li> <li>conditions:</li> <li>Feedback condition:</li> <li>one additional</li> <li>sentence informing</li> <li>them on their current</li> <li>dietary fat intake</li> <li>No feedback</li> <li>condition</li> </ul>	
Humanistic p	sychology							
Pelletier et al., 2004 [44]	Canada	Longitudinal (13-weeks, T2, and 26- weeks, T3)	SDT	111 patients at risk for coronary artery diseases (age: 53.89±7.8; 40.5% females)	Healthy eating	<i>General Self-</i> <i>Determination</i> <i>Scale</i> to assess the general motivation (intrinsic, integrated, identified, introjected, extrinsic, amotivation); <i>Regulation of</i> <i>Eating Behaviors</i> <i>Scale</i> to assess the motivational orientation toward dietary regulation (contextual); <i>ad</i> <i>hoc</i> 24-h dietary recall questionnaire to assess food intake	Not applicable	General motivation was a significant predictor of contextual motivation, meaning that individuals who were more generally self-determined at baseline were also more likely to regulate their eating behaviors for self-determined reasons at T2. Self- determination at T2 was a significant predictor of the reduction of percent calories from total dietary fat and saturated fat at T3. Finally, the dietary behavior measures were related to improvements in weight and blood lipid parameters

Schösler et	Netherlands	Cross-	SDT	1083 healthy adults	Sustainable	Self-report ad-hoc	Not applicable	Internally motivated
al., 2014	and	sectional		and young adults	eating	questionnaire to		participants showed less meat
[24]	Germany			(age: 40% 35-54,		assess types of		consumption and preferred
				34% 55-74, 20%		food-related		plant-based protein products
				18-34, 65% 75 and		motivations		compared to the externally
				over; 50% females)		(intrinsic, extrinsic,		motivated ones. Therefore,
						internalized, not		internalized motivation was the
						internalized),		main factor determining
						sustainable eating		sustainable food choices
						(in terms of meat		
						consumption		
						frequency, reasons		
						for either a low or		
						high meat		
						consumption,		
						purchase of organic		
						meat, purchase of		
						meat replacers,		
						choices of plant-		
						based snacks)		
Hartmann et	Switzerland	Longitudinal	SDT	2917 healthy adults	Healthy	Adapted version of	Not applicable	Autonomous motivation
al., 2015	and	(1-year FU)		(age: 58; 47%	eating	the Treatment Self-		predicted improvements in
[49]	Germany			males)		Regulation		food choice and long-term PA,
						Questionnaire		whereas external motivation
						(TSRQ) to assess		predicted negative changes in
						autonomous,		food choices at the FU
						introjected and		assessment
						external regulation		
						towards a healthy		
						body weight; Food		
						Frequency		
						Questionnaire to		
						assess food and		
						alcohol		
						consumption;		

						Global Physical Activity Questionnaire-2 (GPAQv2) to assess PA		
Cross-cultura	l psychology							
Claessens et al., 2023 [42]	Netherlands	Cross- sectional	Theory of basic values	301 healthy adults (age: 51.4 ± 17.8; 49.2% females)	Healthy and sustainable eating	10-Item Short Schwartz Value Survey to assess participants' values; Adapted version of the Food Choice Questionnaire and the Reasons to Snack Inventory to assess food choices motives; Hypothetical food choice task to assess the healthiness and sustainability (in terms of meat consumption) of home and restaurants meal choices	Not applicable	Participants in the restaurant condition chose unhealthy meals more often than participants in the home condition. Furthermore, conservation values related negatively and self- trascendence values positively with sustainable food choices in both conditions. Regarding motives, taste and social eating were more important for choosing restaurant meals, whereas health was more important for choosing home meals. Finally, motives represented better predictors of healthy food choices in both conditions compared to sustainable food choices
Cross-cultural and cognitive sychology								

De Boer et al., 2007 [22]	Netherlands	Cross- sectional	Theory of basic values integrated with the Regulatory Focus Theory and the Dual Process Theory	1530 healthy adults and young adults (age: 18-89; 51% females)	Healthy and sustainable food choices	40-item Portrait Value Questionnaire to assess Schwartz basic values; Ad-hoc self-report questionnaire to assess sustaimable food choices and intentions (in terms of meat consumption)	Not applicable	Most of the basic human values were related to a certain extent to the direction of food choices motives. Universalism in particular significantly predicted less-meat or free- range meat food choices, with prevention-oriented food choice motives and high levels of food involvement and motive-congruent animal friendly attitudes mediating this relation
Developmenta	al Psychology	1	1		1		1	1
Baskale & Bahar, 2011 [54]	Turkey	RCT	Piaget's cognitive development theory	238 children (age: 5 y/o; 141 in the experimental group and 97 in the control group)ti	Healthy eating	Ad-hoc self-report questionnaire to assess children' nutritional knowledge, food consumption and anthropometric data	Experimental group: program of nutrition education based on Piaget's cognitive development theory constituted by an educational content and a game-based education. Control group: general educational program. Parents of children of both groups were given nutritional education in accordance with the	Children in the experimental group showed higher scores in nutritional knowledge compared to the control group and their food preferences positively changed toward healthier foods (i.e., white meat, fish, vegetables, fruits).

			principles of adult education	

Table S2. Description of the identified psychological theoretical frameworks.

Psychological theoretical	Key factors	Description of the theory
framework		
	Social Psychology	
Theory of Planned Behavior (TPB) [65]	<ul> <li>Intention</li> <li>Predictors of the intention (perceived behavioral control, PBC; social norms, SN; attitudes)</li> </ul>	Behaviors are driven by individuals' intentions, which in turn are influenced by predictors of the intention (PBC, SN and attitudes).
Social Cognitive Theory (SCT) [66]	<ul> <li>Self-efficacy</li> <li>Outcome expectations</li> <li>Self-regulatory behaviors</li> </ul>	Behaviors are influenced by levels of self-efficacy (individuals' ability to influence and change their habits) and physical, social and self-evaluative outcome expectations, both directly and through self-regulatory behaviors (in terms of setting, planning and monitoring personal goals).
Influence of Presumed Media Influence (IPMI) [67]	<ul><li>Attitudes</li><li>Media messages</li><li>Social norms</li></ul>	Individuals adjust their attitudes and behaviors based on their perception of how others are influenced by media messages, that in turn are believed to indirectly influence behaviors through social

		norms and perceived influence on others.
Information-Motivation- Behavioral Skills (IMB) model [68]	<ul><li>Information</li><li>Motivation</li><li>Behavioral skills</li></ul>	Information and motivation influence behavioral skills, which in turn determine behavioral change.
	Cognitive Psychology	
Dual Process Theory (DPT) [69]	Decision making processes	Two possible decision-making processes may drive behaviors: (1) a rational, deliberative, controlled and decision-making process; (2) an automatic, fast and habit-driven process.
Muddling Through Theory (MTT) [70]	<ul> <li>Decision making processes</li> </ul>	In complex situations, decision- making driving behaviors may be based on a less rational approach, as more analytical and rational ones may be limiting.
Value-Attitude-Behavior (VAB) model [71]	<ul><li>Abstract cognitions</li><li>Mid-range cognitions</li></ul>	Behaviors are indirectly influenced by abstract cognitions (i.e., values) through mid-range cognitions (i.e., attitudes).
Habit Formation Theory (HFT) [72]	<ul> <li>Stages of behavioral adoption</li> <li>Intrinsic reward</li> <li>Anticipated regret</li> <li>Self-efficacy</li> </ul>	Antecedents of behaviors can be distinguished based on the stage of behavioral adoption: (1) decision to act; (2) action initiation; (3) repetition of the behavior; (4) development of cue-behaviors association. Within this habit formation process, antecedents such as intrinsic

		reward, anticipated regret and self- efficacy can play a role at multiple stages of the process.
Implicit Misattribution Model (IMM) [73]	• Evaluative conditioning	Behavioral change can occur when the value attributed to a certain stimulus (conditioned stimulus, CS) is paired with another positive or negative stimulus (unconditioned stimulus, US). Consequently, a CS may become more positive when paired with a positive US and more negative when associated with a negative US (evaluative conditioning).
Associative-cybernetic model [74]	<ul> <li>Reward value</li> <li>Behavior repetition</li> <li>Habit strength</li> </ul>	Experiencing positive outcome behaviors when performing an action in a given context (i.e., enjoying the pleasurable taste of fruit when eating fruits at the dinner table in the evening) facilitates the learning of the behavior-context link. The reward value (outcome) can strengthen habits via two routes: (1) reward should have an impact on habit that is mediated by behavior repetition; (2) reward should moderate the relationship between repetition and habit strength.
Cross-behavior regulation [26]	<ul><li>Habit strength</li><li>Transfer cognitions</li></ul>	Regular engagement in one health domain (i.e., physical exercise) can have implications for regulating

		other health domains (i.e., healthy eating), through habit strength and transfer cognitions.
Social Learning Theory (SLT) [75]	<ul><li>Attention</li><li>Retention</li><li>Motor reproduction</li><li>Motivation</li></ul>	The actualization of certain behaviors (i.e., food choices) may be influenced by others (i.e., peers).
Prospect Theory [76]	<ul><li>Gain-framed messages</li><li>Loss-framed messages</li></ul>	Gain-framed messages (i.e., advantages of eating fruit) more persuasively encourage preventive behaviors, while loss-framed ones (i.e., disadvantages of not eating fruit) more persuasively encourage behaviors aimed at detecting health conditions.
Self-licensing Theory [77]	<ul> <li>Moral self-concept</li> <li>Moral and immoral actions</li> </ul>	Completed moral or altruistic actions boost people's moral self- concept, which decreases the tendency to act morally, while completed immoral or egoistic actions are compensated for by acting more morally or altruistically in the future.
	Health Psychology	
Health Action Process Approach (HAPA) [78]	<ul> <li>Motivational phase of intention formation (self- efficacy, outcome expectancy and risk awareness)</li> <li>Volitional phase of translating the intention into</li> </ul>	In the initial motivation phase, a person forms the intention to perform a certain behavior, which is predicted by self-efficacy, outcome expectations and risk awareness. Intention is then translated into action, which is influenced by action planning and action control.

	action (action planning and action control)	
Health Belief Model (HBM) [79]	<ul> <li>Health beliefs</li> <li>Readiness to take action</li> <li>Perceived susceptibility</li> <li>Severity</li> <li>Benefits</li> <li>Barriers</li> </ul>	Health behaviors are determined by health beliefs and readiness to take action, which in turn are influenced by the levels of susceptibility, severity, benefits and barriers related to the specific health behavior.
Temporal self-regulation theory (TST) [80]	<ul> <li>Motivational phase (connectedness, timing and valence beliefs)</li> <li>Volitional phase (behavioral prepotency and self- regulatory capacity)</li> </ul>	Health behaviors are driven by a motivational phase and a volitional phase. In the motivational phase, intention is thought to be influenced by beliefs about the connectedness (how likely an outcome of behavior is believed to be), valence beliefs (whether the outcomes are believed to be positive or negative) and timing beliefs (when the outcomes are believed to occur). In the volitional phase, intention is translated into action, which in turn is predicted by behavioral prepotency (the individual's default response to cues in the environment) and self-regulatory strategies (the individual's ability to monitor and control its thoughts emotions and behaviors).
	Clinical Psychology	1
Mindfulness theory [81]	<ul><li>Observing</li><li>Describing</li><li>Acting with awareness</li></ul>	Behavioral change can result from the awareness that arises through paying attention on purpose in the

	<ul><li>Non-judging</li><li>Non-reactivity</li></ul>	present moment and with a non- judgemental attitude.
Transtheoretical model [82]	• Stages of change	Behavioral change crosses five stages, namely precontemplation, contemplation, preparation, action and maintenance, with transitions between stages being mostly predicted by decisional balance (i.e., valuing pros and cons of the behavior) and self-efficacy.
	Humanistic psychology	
Self-determination theory (SDT) [83]	<ul><li>Motivation</li><li>Behavior regulatory styles</li></ul>	The regulation of behaviors can take many forms that correspond to different behavior regulatory styles and are associated with three forms of motivation, namely intrinsic motivation, extrinsic motivation and a-motivation.
	Cross-cultural psychology	
Theory of basic values [84]	<ul> <li>Self-enhancement values</li> <li>Self-trascendence values</li> <li>Openness to change</li> <li>Conservation</li> </ul>	Individuals' behaviors are influenced by values that are relevant for them. Values are organized on two bipolar dimensions: self-enhancement (concern for personal growth and success) vs. self-trascendence values (concern for the welfare and interest of others, the nature and the environment) and openness to change (independence of thoughts, action and feelings and readiness to

		change) vs. conservation values (preservation, stability and resistance to change).
	Developmental psychology	
Piaget's cognitive developmental theory [87]	<ul> <li>Schemas</li> <li>Assimilation</li> <li>Accommodation</li> <li>Equilibration</li> </ul>	Children's cognitive development is organized into stages based on their age and is based on their schemas. The progression of the development depends on its adaptation (including assimilation and accommodation), and as a result of the interaction between assimilation and accommodation, equilibration takes place, creating a new dynamic balance.