#### **Supplementary Materials:**

Table S1. Food frequency questionnaire and coding instructions.

**Table S2.** Mean daily energy and nutrient intake during pregnancy

Table S3. Energy intake and percentage of total energy contributed by macronutrients during pregnancy and post-partum

#### **EATING HABITS**

The following questionnaires ask you about your child's eating habits and frequency of food consumption.

### A) Eating habits

Choose the answer according to your child's habits:

1. What kind of milk or vegetable drink do you usually drink?	1. Cow milk	2. Soy drink	3.Other (which one)	
2. What kind of cow's milk do you usually drink?	1. Whole milk	2. Semi-skimmed milk	3. Skimmed milk	
3. Which kind of yogurt do you usually eat?	1. Whole yogurt	2. Semi-skimmed yogurt	3. Skimmed yogurt	
4. Do you usually sweeten the food (yogurt, milk, fruit) with sugar, honey, sweetener? Do you add sugary cocoa like <i>Nesquik</i> ?	1. No	2. Yes (number of servings)		
5. What kind of bread do you eat?	1.White bread	2. Whole grain bread	3. Other (which one)	
6. What kind of oil do you use to dress salads?	1. Olive oil	2. Seed oil (sunflower, corn,)	3. olive oil or seed oil	
7. What kind of oil do you use for cooking?	1. Olive oil	2. Seed oil (sunflower, corn,)	3. olive oil or seed oil	
8. How much oil do you use to cook?	1. Plenty	2. Moderate	3. Little	
9. At the eating moment, do you add more oil to your dishes (example: salads,)?	1. Usually	2. Sometimes	3.Ocasionally	
10. Do you add to bread or sandwiches?	1. Usually	2. Sometimes	3.Ocasionally	
11. Do you add butter to bread or sandwiches?	1. Usually	2. Sometimes	3.Ocasionally	

### **B)** Food frequency questionnaire

The following questionnaire asks about the frequency in which your child consumes. The frequency of consumption must be specified in the boxes found on the right side of each food.

For each food item in the list, you should write down the number of times your child consumes it:

- If your child eats it every day of the week (once a day), put a 7 in the WEEKLY column.
- If your child consumes it once a week, put the times: 1-2-3-4-5 or 6 in the column WEEKLY.

Always think about adding up the consumption of all the meals of the day (breakfast, lunch, snack, dinner, others ...)

For example:

- If your child drinks milk for breakfast every morning and occasionally before go to bed too: 7 +

3 = 10 times a week.

- If your child takes meat 4 times for lunch and 2 times for dinner: 4 +2 =6 times a week.

Only check one box for each food (WEEKLY or MONTHLY)

• If your child consumes food ones a month, write down how many times. 1-2-3 ... in the MONTHLY column

• If your child never or almost never, leave the blank box, without putting anything in it.

*Example:* If your child usually drinks milk for breakfast (7 times a week) and muffins (7 times a week) and sometimes drinks milk before agina to bed (4 times). Moreover, if your child eats 3 times a month (3 times).

FOODS LIST	HOW MANY TIMES?				
	WEEKLY	MONTHLY			
Milk	11				
Muffin	7				
Fish		3			

## Food frequency questionnaire – FFQ

HOW MANY TIMES DO YOU EAT/DRINK?							
	WEEKLY	MONTHLY					
Milk							
Yogurt							
Chocolate: chocolate bar, Kit-Kat, Mars Chocolate							
Brands							
Breakfast Puffed Cereals (Corn-Flakes, Kellogg's,							
Quaker)							
"Maria" Cookies							
Chocolate cookies, cream cookies							
Muffins, soft cakes, biscuits							
Ensaimada or spiral-shaped pastry, Donut, Croissant							
Salad: lettuce, tomatoes, curly endive							
Green bean, chard, spinach							
Garnish Vegetables: eggplant, zucchini, mushroom							
Potatoes: baked, fried or boiled							
Legumes: lentils, peas, chickpeas, beans							
White rice, paella							
Pasta: noodles, macaroni, spaghetti							
Soups and creams							
Eggs							
Chicken or turkey							
Beef, pork, lamb (steak, battered)							
Minced meat: pork sausage, hamburger, meatballs							
White fish: hake, grouper							
Blue fish: sardine, tuna, salmon							
Seafood: mussels, prawn, octopus, squid							
Croquettes, small pasty, pizza							
Bread (sandwich, bread consumed at meals )							
Serrano ham, ham, cold meat							
White or fresh cheese (Burgos,) or low fat cheese							
Other cheeses cured or semi-cured, creamy							
Citrus fruit: orange, mandarin orange							
Other fruits: Apple, pear, peach, apricot, banana							

Canned fruit (in syrup)	
Natural fruit juice	
Commercial fruit juices	
Nuts: peanuts, hazelnuts, almonds	
Dairy desserts: custard, crème caramel, junket,	
Cream and chocolate cakes	
Snack bags (chips, Cheetos, fries)	
Candies: candies, jelly beans	
Ice creams: in summer/ in winter	
Sugary drinks (Coca-Cola, Fanta, Ice tea)	
Low calorie drinks (Coca-Cola light, cero)	

	Compariso		rimester versus	-	Comparison intake second trimester				
		second trime	ster	V	versus third trimester				
-	First	Second	p-value	Second	Third	p-value			
	trimester	trimester <sup>b</sup>	between <sup>(a-</sup>	trimester <sup>b</sup>	trimester	between	(b-		
	n=513	n=513	b)	n=426	n=426	c)			
	Mean (SD)	Mean (SD)		Mean (SD)	Mean (SD)				
Energy (Kcal/d)	1794.5	1787.9	0.819	1788.5	1740.9	0.003			
Lifeigy (Real/d)	(414.9) (389.6)	(389.6)	0.017	(382.2)	(372.5)	0.005			
Proteins (g/d)	57.9 (17.2)	57.9 (15.4)	0.862	58 (15.7)	56.5 (15.9)	0.029			
Carbohydrates (g/d)	177.2 (65.7)	173.9 (63.2)	0.362	173.9 (60.5)	165.9 (59.6)	0.002			
Natural Sugars (g/d)	21.5 (9.7)	20.8 (9.4)	0.265	20.8 (9.4)	20.8 (9.9)	0.794			
Free Sugars (g/d)	42.5 (28.8)	45.1 (30.1)	0.006	45.1 (30.1)	40.9 (27.6)	0.001			
Lipids (g/d)	94.5 (12.9)	95.2 (12.4)	0.261	95.3 (12.5)	94.1 (12.1)	0.051			
Cholesterol (mg)	219.7 (75.8)	225.4 (70.1)	0.053	225.6 (71.1)	220.6 (69.6)	0.353			
Saturated fats (g)	24.4 (5.8)	24.9 (5.6)	0.058	25.0 (5.6)	24.5 (5.5)	0.074			
Monounsaturated	53.4 (4.7)	53.6 (4.6)	0.334	53.6 (4.6)	53.2 (4.4)	0.051			
fats (g)	55.4 (4.7)	55.0 (4.0)	0.004	55.0 (4.0)	55.2 (4.4)	0.051			
Polyunsaturated fats	10.1 (1.4)	10.0 (1.4)	0.531	10.0 (1.4)	9.9 (1.3)	0.014			
(g)	10.1 (1.4)	10.0 (1.4)	0.551	10.0 (1.4)	9.9 (1.3)	0.014			
Fibre (g/d)	13.0 (4.6)	12.5 (4.3)	0.002	12.5 (4.3)	12.0 (4.1)	0.003			
C - 1' (	1352.2	1326.8	0.075	1325.4	1281.7	0.007			
Sodium (mg/d)	(419.2)	(408.9)	0.065	(414.7)	(401.9)	0.006			
Deterium (medd)	2253.3 2243.6		0.700	2241.3	2181.5	0.000			
Potasium (mg/d)	(703.7)	(645.3)	0.798	(642.7)	(647.7)	0.009			
D1 1 ( / 1)	853.3	865.2	0.002	863.8	848.2	0.105			
Phosphorus (mg/d)	(263.1)	(236.3)	0.092	(237.2)	(242.8)	0.125			
$C_{2}$	674.6	687.6	0.020	686.6	680.3	0 500			
Calcium (mg/d)	(266.2)	(229.2)	0.039	(227.9)	(253.5)	0.599			
Iron (mg/d)	7.8 (2.7)	7.7 (2.4)	0.908	7.7 (2.4)	7.41 (2.3)	0.003			
<b>T</b> <i>T</i> <b>T T T T T T T T T T</b>	616.6	620.9	0.010	623.3	613.1	0.101			
Vitamin A (µg/d)	(199.6)	(188.1)	0.319	(188.7)	(189.1)	0.121			
Vitamin E (mg/d)	10.1 (1.2)	10.1 (1.1)	0.226	10.1 (1.1)	9.9 (1.1)	0.058			
Vitamin C (mg/d)	79.2 (37.4)	75.5 (36.0)	0.040	75.6 (36.1)	74.6 (36.3)	0.257			
Vitamin D (µg/d)	1.8 (1.1)	1.9 (1.0)	0.278	1.9 (1.0)	1.8 (1.1)	0.308			
Vitamin B1 (mg/d)	0.9 (0.3)	0.9 (0.3)	0.712	0.9 (0.3)	0.9 (0.3)	0.050			
Vitamin B2 (mg/d)	1.3 (0.5)	1.4 (0.4)	0.055	1.4 (0.4)	1.3 (0.4)	0.726			
Niacin (mg/d)	13.1 (4.5)	13.0 (4.0)	0.475	13.0 (4.1)	12.6 (3.9)	0.027			
Vitamin B6 (mg/d)	1.3 (0.5)	1.3 (0.4)	0.309	1.3 (0.4)	1.3 (0.4)	0.027			
Vitamin B12 (µg/d)	4.4 (1.6)	4.5 (1.5)	0.103	4.5 (1.5)	4.4 (1.6)	0.411			

#### Table S2. Mean daily energy and nutrient intake during pregnancy

Folate (µg/d)	212.0 (76.5)	204.8 (69.4)	0.051	204.6 (69.8)	199.7 (65.7)	0.094
	Values expressed as mea	an and standard	deviation (SD).	Natural sugar ind	clude: Sugars from	

fruits, vegetables, milk and salted cereals; Free sugar include: Monosaccharides and disaccharides added to foods and beverages and sugars naturally present in honey, syrups, fruit juices and fruit juice concentrates; Vitamin A ( $\mu$ g/d): Calculated as retinol activity equivalents.

	trimes First trimest	arison intak ster versus s trimester Second trimester b		Comparison intake second trimester versus third trimester Second trimester b			Comparison intake trimester versus post-j Mean of three trimesters Post-		partum P- value
	er <sup>a</sup> n=513	n=513	n <sup>(a-</sup> b)	n=426	ء n=426	n <sup>(b-</sup>	ء n=395	partum <sup>d</sup> n=395	betwee n (c-d)
	Mean	Mean		Mean	Mean		Mean	Mean	
	(SD)	(SD)		(SD)	(SD)		(SD)	(SD)	
Energy (Kcal/d)	1794.5	1787.9	0.695	1788.5	1740.9	0.001	1779.1	1744.8	0.282
	(414.9)	(389.6)	0.070	(382.2)	(372.5)	0.001	(356.0)	(382.8)	
Proteins (%)	12.8 (1.9)	12.9 (1.8)	0.295	12.9 (1.8)	12.9 (1.9)	0.807	12.9 (1.5)	13.2 (1.9)	0.001
Carbohydrates (%)	38.5 (6.5)	38.0 (6.1)	0.064	38.1 (6.0)	37.3 (6.2)	0.001	37.9 (5.5)	36.8 (6.3)	<0.001
Natural Sugars (%)	4.8 (1.8)	4.6 (1.8)	0.138	4.6 (1.9)	4.8 (1.9)	0.103	4.7 (1.5)	4.3 (1.7)	< 0.001
Free Sugars (%)	9.0 (4.9)	9.6 (4.8)	0.006	9.5 (4.7)	8.9 (4.6)	0.003	9.0 (4.1)	8.5 (4.8)	0.028
Lipids (%)	48.6 (6.1)	49.0 (5.6)	0.097	48.5 (5.6)	49.8 (5.7)	0.001	49.2 (5.1)	50.1 (5.9)	0.001
Saturated fats (%)	12.4 (1.6)	12.6 (1.5)	< 0.001	12.7 (1.6)	12.8 (1.5)	0.111	12.6 (1.3)	12.8 (1.5)	0.001
Monounsaturated fats (%)	27.7 (4.3)	27.8 (3.9)	0.513	27.8 (4.0)	28.4 (4.0)	<0.001	28.0 (3.6)	28.6 (4.3)	0.004
Polyunsaturated fats (%)	5.2 (0.6)	5.3 (0.6)	0.678	5.2 (0.6)	5.3 (0.6)	0.005	5.2 (0.6)	5.3 (0.7)	0.016

# Table S3. Energy intake and percentage of total energy contributed by macronutrients during pregnancy and post-partum

Values expressed as mean and standard deviation (SD). Natural sugars include: Sugars from fruits, vegetables, milk and salted cereals; Free Sugars include: Monosaccharides and disaccharides added to foods and beverages and sugars naturally present in honey, syrups, fruit juices and fruit juice concentrates.