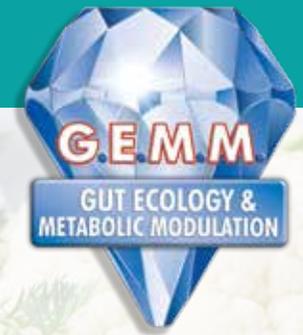


# What to Eat - Embracing the G.E.M.M. Principles



## STEP 1 FOUNDATIONS: Protein, Plants and Starches

**PROTEIN** Multiply your ideal body weight in kilograms by 0.8, 1.0 or 1.2\*. Record the answer as your daily protein intake in grams



**PLANTS** Select a range of multi-coloured, non-starchy vegetables and weigh out 600 grams daily, varying your choices often



**Starchy vegetables** - add to your meal unless advised to restrict carbohydrates

**NOTE: Start Step 2 when advised by your clinician**

\* Include animal meats (incl. organ meats), eggs, fish or vegetarian options. Protein requirements are higher for vegetarians (1g/kg) and vegan diets to 1.2 g/kg/day

## + Essential Extras



**Cook with Extra Virgin Olive Oil**

Make salad dressings with Extra Virgin Olive Oil, Macadamia Oil, Balsamic Vinegar or White Wine Vinegar plus mustard, garlic and herbs



**HEALTHY FATS** Include fresh avocado, (30 - 50 grams) raw nuts and seeds daily or as advised



Generously include lemon or lime juice and zest, vinegar, garlic, chilli, ginger, mustard, natural herbs and spices, vegetables and bone stock

## + Lifestyle Factors



Regular sleep routine



Black, green or herbal tea as desired



Pleasure foods occasionally or as permitted



At least 30 minutes of brisk exercise daily



Drink fresh water, 1-2L daily

## STEP 2

### PREBIOTICS

Include several daily serves from the list of prebiotic foods - important in feeding your microbiota.



Legumes and whole unprocessed grains as recommended. eg. Brown Basmati rice, chia seeds, quinoa, organic oats and barley (great in soups)

## STEP 3

**PROBIOTICS** Add cultured foods like kimchi and kefir when advised by your clinician



# What to Eat - Embracing the G.E.M.M. Principles



## Step 1: Protein-rich Foods

### Mixed Diet:

Calculate your protein requirement: My ideal body weight  kg x 0.8 =  grams of protein

### Vegetarian/Vegan Diet:

Calculate your protein requirement: My ideal body weight  kg x  $\frac{1.0}{1.2}$  =  grams of protein

## Your Protein Guide (content in grams) \* Cup = 250 mL

Food type and approximate serving size (Guide to estimating approx. requirement)	per 100g	per Portion	
<b>MEAT:</b> Serving Size approximately 100g - Lean boneless portion (red or white meat)	30	30	
<b>FISH:</b> Serving Size approximately 140g - Fillets of fish	20	30	
<b>SHELLFISH:</b> Serving Size approximately 100g - i.e. Prawns, Mussels, Scallops, Oysters, etc	20	20	
<b>EGGS:</b> Chicken eggs (2 medium eggs)	12	12	
<b>LEGUMES:</b> Serving Size approximately 150g - i.e. Beans and Pulses cooked, Raw red peanuts	8	12	
<b>SOY:</b> Serving Size approximately 170g - i.e. Tofu or Tempeh	10	15	
<b>NUTS:</b> Serving Size approximately 30g - i.e. Almonds, Walnuts, Hazelnuts, Cashews, etc	18	5	
<b>SEEDS:</b> Serving Size approximately 30g - i.e. Pepitas, Sunflowers, Chia, Sesame, etc	19	6	
<b>GRAINS:</b>	Bread (wholemeal or wholegrain) 2 average slices	8	6
	Rice, brown basmati, cooked (1/2 cup*)	3	5
	Rolled Oats, cooked (1/2 cup*) - preferably non-instant	3	6
	Pasta (1/2 cup*) (preferably wholemeal)	5	8
<b>DAIRY:</b>	Milk (250 ml glass) - whole or low-fat	3	8
	Hard cheese - Cheddar, Swiss, Edam, etc (30 grams or a matchbox-sized piece)	25	8
	Cottage or Ricotta cheese (100 grams)	11	11
	Feta cheese (30 grams)	14	4
Yogurt and Kefir (1 cup*)	3	8	

## Plant-based proteins

Protein-containing foods must contain ALL of the essential amino acids. Where animal foods naturally contain all of these, plant foods do not. However, the problem is solved by combining the two key plant protein categories.

**Complete protein = 2 parts grain, nut or seed + 1 part legume.**

This guide forms part of the Gut Ecology & Metabolic Modulation (G.E.M.M. Protocol)

This brochure has been developed as background information for patients who are under the guidance of a suitably-qualified healthcare professional. Your clinician will assess you to determine if any part of this programme may need to be modified in accordance with your individual requirements. Provided in the interests of patient education by Cell-Logic Pty Ltd and Integra Nutritionals, www.cell-logic.com.au Ross Court Central, 132-140 Ross Court, Cleveland, Qld 4163, AUSTRALIA. Tel: 07 3041 4091 Australia ABN: 52 136 685 080. June 2020

## Step 2: Prebiotic-rich Foods

As you are selecting foods for both your own cells and those of your microbiota, you are encouraged to choose as wide a variety as possible. The table below lists 8 different families of prebiotic-rich foods. Try to include foods from as many families as possible across each day; the greater the variety, the greater the diversity of your health-promoting 'friendly' microbes.

These foods include soluble (jelly-like) and insoluble fibres as well as the brightly-coloured polyphenols, especially abundant in the skins of plant foods.

Your clinician is likely to recommend a prebiotic supplement in the initial stages of your programme but this will be gradually replaced by the foods in this table.

Generally 30 to 50 grams of dietary fibre is recommended daily. Some of this will come from your >600 grams of non-starchy vegetables.

## 8 prebiotic food families - typical examples

<b>Family #1</b>	Leeks, onions, garlic, shallots, asparagus, globe artichoke, banana, agave, chicory root.
<b>Family #2</b>	Legumes of all types (eg lentils, chick peas), Nuts (eg. cashews, pistachios), Dairy - (eg. kefir and its active molecule <i>kefiran</i> ).
<b>Family #3</b>	Citrus peel, apples (retain skin for the coloured polyphenols), stone fruits, carrots, sweet potato
<b>Family #4</b>	Unripe bananas, especially Lady Finger variety, cold cooked white potatoes, cooled overnight and skin retained for mineral content, cold cooked sweet potato (less prebiotic-rich than cold cooked white potatoes)
<b>Family #5</b>	Oats, barley, pearly barley
<b>Family #6</b>	Psyllium seed hulls (modest effect but useful as a thickener)
<b>Family #7</b>	Flaxseed (linseed), sesame seeds, whole grain cereals, legumes, berry seeds
<b>Family #8</b>	Cereal brans of rye, wheat, rice, corn and oats

## Easy Meals using protein-rich plants

- Soups and casseroles based on 1 part lentils and 2 parts brown basmati rice.
- A vegetable stir-fry with tofu or tempeh (soy is a legume) with quinoa
- A peanut butter (legume) sandwich on wholegrain or seed bread
- Hummus on wholegrain rice cakes
- Salads with pepitas, cashews and chick peas or haricot beans