

2023 Cha Chi Ming Educational Series on Brain Health

Food for Thought: Meal Planning for Optimal Brain Health

Presented by Kelly Morrow, MS, RDN, FAND

Cooking Demonstration by Chef Jared Batson

August 24, 2023

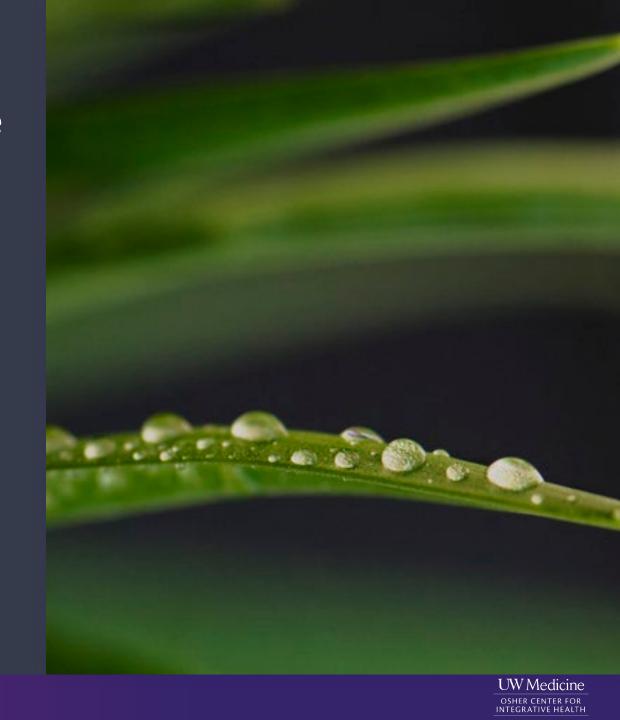
UW Medicine

The UW Osher Center provides Integrative Medicine Consults, Integrative Primary Care, and Acupuncture.

We bring together conventional and complementary practices in a coordinated manner to promote health, illness prevention, and healthy living. We emphasize a holistic, patient-focused approach to health care and wellness – treating the whole person.

For more information:

<u> https://familymedicine.uw.edu/osher/patients/</u>



Brain Health & Nutrition

6:00-7:15pm (virtual)

May 18

Mom Your Brain

Dr. Emily Wong presents

Learn how we can engage mindset and purpose to take care of our physical brains

June 22

Healthy Gut, Healthy Brain

Dr. Iman Majd presents

Optimizing gut microbiome for better brain function

Chef Jared Batson leads interactive cooking

July 27

Food for Thought: Meal Planning for Optimal Brain Health

Kelly Morrow, MS, RDN, FAND

Incorporating nutrient-packed foods into balanced, flavorful meals to fuel our brains

August 24

Food or Supplements?

Dr. Debra Bell presents

Do we need to take supplements for better brain function?

Chef Jared Batson leads interactive cooking

September 28

Food and Mood

Dr. Tom Yang presents How does food affect our mood?

Chef Jared Batson leads interactive cooking

REGIS



Scan for recording of Mom Your Brain

SCAN TO REGISTER



link: bit.ly/41ENSrH

Kelly Morrow, MS, RDN, FAND

Kelly Morrow, MS, RDN, FAND is a Registered Dietitian Nutritionist and Fellow of the Academy of Nutrition and Dietetics. She has been on the faculty at Bastyr University since 2002 where she has supervised clinical rotations at the Bastyr Center for Natural Health and taught in the Departments of Nutrition and Exercise Science, Naturopathic Medicine, Midwifery and Acupuncture and East Asian Medicine.

Kelly has been in private practice since 2000 and has previously worked at Evergreen Hospital in radiation oncology, the Booth Gardner Parkinson's Center and in Community Health Promotions. Currently, she sees patients at Seattle Integrative Medicine.

As a nutrition educator, Kelly helps people learn about how food affects health. As a nutrition counselor, she helps people with motivation and making sustainable changes while supporting personal preferences, lifestyle, and culture. Kelly uses an integrative, body positive, gender affirming and non-diet approach.

Chef Jared Batson

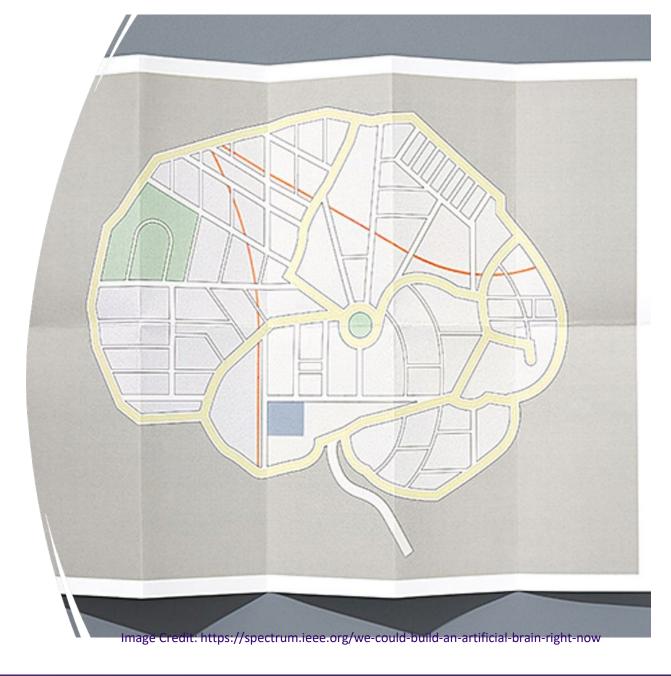
At the age of fifteen Jared began his journey into the food industry and never looked back. As a chef, he has cooked and traveled across the country and worldwide, working under accomplished chefs in Chicago, California, and at the esteemed Ballymaloe Cookery School in Ireland. He is proud to have been mentored by James Beard & Bocuse d'Or winners alike, and would credit them for his own Jean Banchet Award, won with his business and team in Chicago. From a culinary standpoint both locally and abroad, Jared has fostered his desire to support sustainable agriculture and forward thinking restaurants that are pushing for impact beyond their menu.

More recently, while still living in Chicago, he brought this mindset to the acclaimed Green City Market, where he served as a Board Member and operated his popular wood-fired catering business for over four years. After passing the torch onto a fellow employee, Jared spent time consulting for various Chicago-Land food businesses, in addition to serving as the Executive Chef of Research & Development for a successful Chicago-Based multi-unit national restaurant group.



Roadmap for Today

- Explore important nutrients and foods that support brain health and cognitive function
- Discuss simple and practical ways to incorporate brain supportive foods into your everyday diet
- Review strategies to improve motivation and make lasting dietary changes for better health



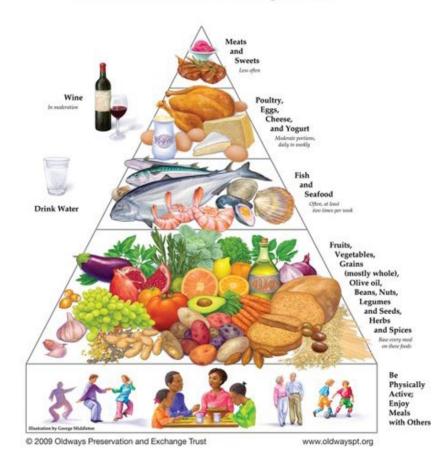
Dietary Pattern that Supports Brain Health

- Mostly plant based diet pattern
- Abundant fruits and vegetables (at least 5 servings daily)
- Whole grains instead of refined grains
- Low sugar intake (below 50g/d)
- Less Saturated Fats red meat and full fat dairy (butter, cream...)
- High quality plant fats (nuts and seeds, olive oil, avocado...)
- Fish at least 2-3x a week

Also....

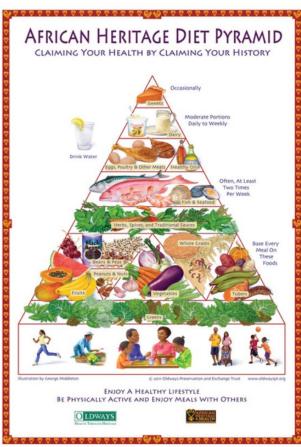
- Physical Activity (aim for 150 minutes a week)
- Spend Quality Time with Others
- Optimal Sleep (7-8 hours a night)

Mediterranean Diet Pyramid



Dietary Patterns and Brain Health – Heritage Foods



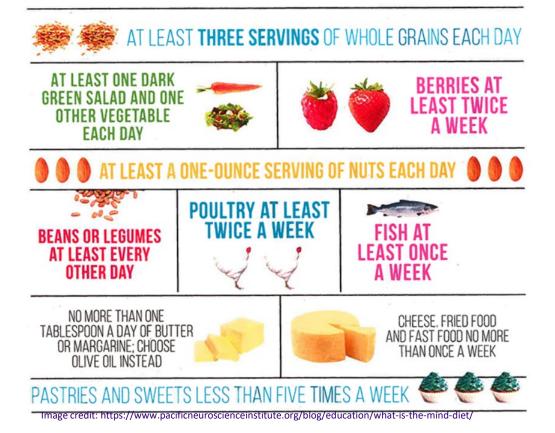




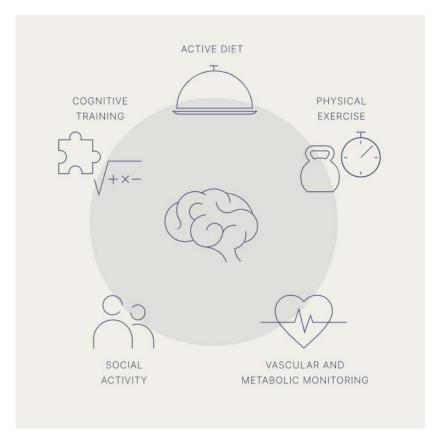


Old Ways Foundation https://oldwayspt.org/

WHAT'S ON THE MIND DIET?



The Finnish Geriatric Intervention Study to Prevent Cognitive Impairment and Disability (FINGER)



https://wwfingers.com/#about

Bastyr Healthy Plate



FRUITS

Consume a variety of fruits each day with meals, snacks or as a healthy dessert choice.

VEGETABLES

Fill your plate with a variety of raw and cooked vegetables. Include at least one green vegetable and one other color of vegetable with every meal.

DIGESTIVES

Fermented foods such as sauerkraut, yogurt, miso, tempeh, kimchi, apple cider vinegar, kombucha, kefir and lacto fermented vegetables can aid in immune function, digestion and support the normal flora of the digestive tract.

BASTYR CENTER
FOR NATURAL HEALTH

Includes fats from whole foods such as avocado, nuts, seeds and fatty fish. Use cold pressed oils such as olive and sesame for dressings and marinades and olive oil, coconut oil and

HEALTHY FAT

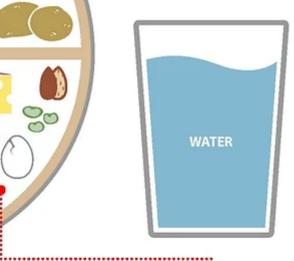
butter for cooking and baking.

the teaching clinic of Bastyr University

www.BastyrCenter.org

WHOLE GRAINS & STARCHES

Include high-fiber whole grains such as brown rice, quinoa, oats, whole grain breads and pastas or starchy vegetables like sweet potatoes and squash. Limit refined grains: white rice, white breads and pastas.



PROTEINS

Include a variety of healthy plant proteins such as legumes, nuts and seeds, and animal proteins like fish, poultry, eggs and dairy. Select organic, free-range or grass-fed animal proteins when possible.



Phytonutrient Spectrum Foods

Foods Apples Beans (adzuki, kidney, red) Beets Bell peppers Blood oranges Cranberries Cherries Grapefruit (pink) Goji berries Grapes Onions Plums

Pomegranate Potatoes Radicchio Radishes Raspberries Strawberries Sweet red peppers

Rhubarb Rooibos tea Tomato Watermelon

Benefits Anti-cancer Anti-inflammatory Cell protection

Gastrointestinal health Heart health Hormone health Liver health

ORANGE

Foods Apricots Bell peppers Cantaloupe Carrots

Mango Nectarine Orange Papaya Persimmons Pumpkin Squash (acorn, buttercup, butternut, winter) Sweet potato

Tangerines Tumeric root

Benefits Anti-cancer Anti-bacterial Immune health Cell protection

Reduced mortality Reproductive health Skin health Source of vitamin A

Foods Apple Asian pears Banana

Bell peppers Corn Corn-on-the-cob Ginger root

Lemon Millet Pineapple

Green peas

Green tea

Greens (arugula, beet,

chard/swiss chard,

collard, dandelion,

spinach, turnip)

kale, lettuce, mustard,

Starfruit Succotash Summer squash

Benefits Anti-cancer Anti-inflammatory Cell protection Cognition

Eve health Heart health Skin health Vascular health

GREEN

Foods Apples Artichoke Asparagus Avocado Bamboo sprouts Bean sprouts Bell peppers

Bitter melon

Bok choy Broccoli Broccolini Brussels sprouts Cabbage Celery Cucumbers Edamame/Soy beans Green beans

Okra

Olives Pears Snow peas Watercress Zucchini

Benefits Anti-cancer Anti-inflammatory Brain health Cell protection

Skin health Hormone balance Heart health Liver health

BLUE/PURPLE/BLACK

Foods Bell peppers

Berries (blue, black, boysenberries, huckleberries, marionberries)

Cabbage Carrots Cauliflower Eggplant Figs

Kale

Grapes Olives Plums Potatoes Prunes Raisins Rice (black or purple)

Benefits Anti-cancer Anti-inflammator Cell protection

Cognitive health Heart health Liver health

Apples Applesauce Bean dips Cauliflower Cocoa Coconut

Foods

Coffee

Dates Garlic Ginger licama Legumes (chickpeas, dried beans or peas, hummus, lentils, peanuts, refried beans/ low-fat)

Mushrooms Nuts (almonds, cashews, pecans, walnuts) Onions Pears Sauerkraut Seeds (flax, hemp,

pumpkin, sesame,

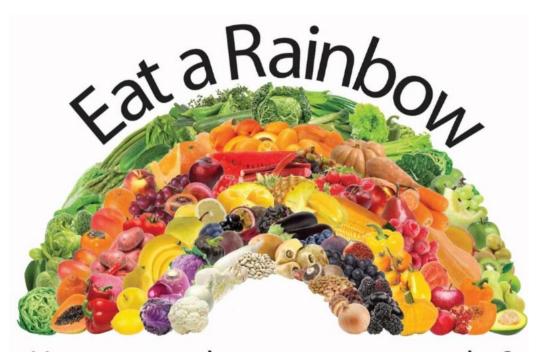
sunflower)

Shallots Tahini

Tea (black, white) Whole grains (barley, brown, rice, oat, quinoa, rye, spelt, wheat)

Benefits

Anti-cancer Anti-microbial Cell protection Gastrointestinal Heart health Hormone health Liver health



How many colours can you eat today?

https://www.gardeningaustin.com/blog/eating-a-rainbow



Food is....

Fuel
Nourishment
Supportive
Regenerative
Connection
Comfort
Medicine



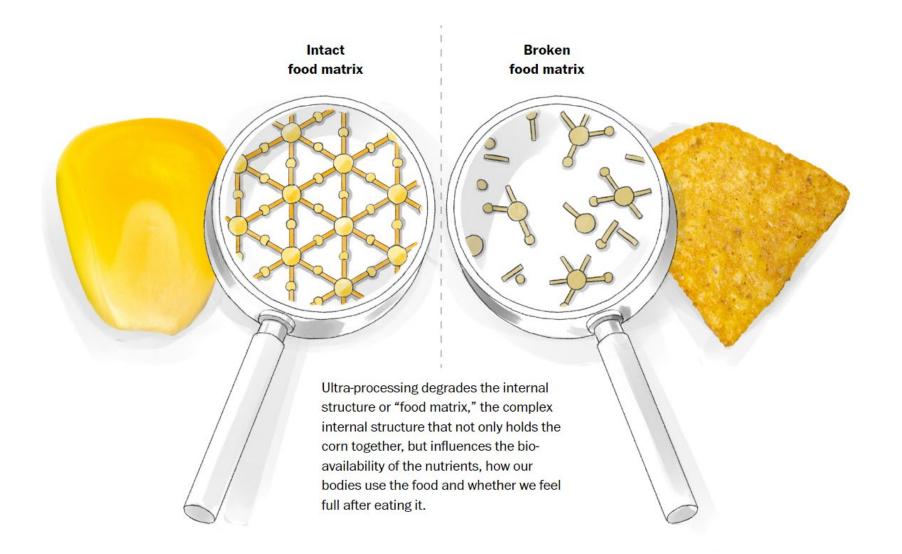


Food is also Information

Your Body is a Sophisticated Computer

What software/programs are you running?

Are you taking in garbled information?



Why many ultra-processed foods are so unhealthy - The Washington Post

Defining Processed Foods

Minimally processed

Nutrition Facts About 4.5 servings per container Serving size Calories **Total Fat** Saturated Fat Trans Fat Cholesterol Insoluble Fiber 3g **Total Sugars** Vitamin D Calcium 17mg 2% 31mg 2% 3mg 15% 6mg 35% Not a significant source of added sugars. in a serving of food contributes to a daily diet. 2,000 calories a day is used for general nutrition advice. INGREDIENTS: RED LENTIL FLOUR.

Highly processed



Ultra processed

Nutrition Facts	calorie diet	ily Values a t. Your daily	values may	be higher
Serving Size 1 Package (61.5g)	or lower de	epending on Calories:	your calor 2.000	ie needs: 2.000
Servings Per Container 36	Total Fat	Less than	-1	80g
Amount Per Serving	Sat. Fat	Less than	20g	25g
Calories 250 Calories from fat 25	Cholesterol			300mg
	Sodium Total Carboh	Less than	2,400mg 300g	2,400mg 375g
% Daily Value*	Dietary Fit	,	25g	30g
Total Fat 2.5g 4%	Calories per	r gram:		
Saturated Fat 2.5g 13%	Fat 9 •	Carbohydra	ate 4 •	Protein 4
Trans Fat Og	MADE OF: S HYDROGEN			IL; LESS
Cholesterol Omg 0%	THAN 2% O DEXTRIN, M			
Sodium 20mg 1%	NATURAL AI COLORS (TI			
Total Carbohydrate 56g 19%	RED 40, YEL YELLOW 5, I	LOW 5 LAK	E, BLUE 1	LAKE,
Dietary Fiber 0g 0%	LAKE), SODI		E, CARNAL	JBA WAX.
Sugars 45g		,		
Protein 0g	PRODUCED	WITH GENE	TIC ENGIN	EERING
Vitamin A 0% • Vitamin C 0%				
Calcium 0% • Iron 0%	l			

Minimally Processed Foods

Can you identify each ingredient as a food?

Does this food have all of its original parts or has anything been removed?

Does each ingredient have an identity (tied to region, season, culture)?

Does it have the capacity to spoil / break down?

Would your ancestors recognize it as food?





FOLLOWING: ACESULFAME POTASSIUM, RED

40. BLUE 1.

What to look for on the label

- Quality of carbohydrates
 - 100% whole grain? Fiber?
 - How much sugar? 4g = 1 teaspoon
- Quality of Fats
 - Use olive oil or avocado oil?
 - Or cold pressed minimally processed oils
 - Nuts or seeds
- Added ingredients
 - Does it look like a science project?
 - Can you pronounce everything?
 - How much salt?



A serving size tells you how much of a food or a liquid is in 1 serving.

This number

tells you how many grams (g)

of fiber are in

1 serving.

Serving Per Can 31/2 **Amount Per Serving** Calories from Fat 0 Calories 140 % Daily Value Total Fat 0.5g Saturated Fat 0g 0% Trans Fat 0g Cholesterol Omg Sodium 510g 21% **Total Carbohydrates 28g** 24% Dietary Fiber 6g Sugars 11g Protein 6g Vitamin A 2% Vitamin C 0% Calcium 6% Iron 10% *Percent Daily Values are based on a 2,000

calorie diet. Your Daily Values may be higher or lower depending on your calorie needs.

Nutrition Facts

Serving Size ½ cup (130g)

Ingredients

Organic Whole Kernel Rye, Water, Organic Whole Rye Flour, Organic Sunflower Seed, Sea Salt, Yeast

Nutrients and Food Components for a Healthy Brain

Nutrient	What it does	Food Sources
Omega 3	Reduce inflammation, makes cells more responsive to hormone signals and neurotransmitters, support learning, memory and mood	Fish and seafood, flax, chia and hemp seeds, walnuts, green leafy vegetables
B Vitamins	Cofactor for making ATP (energy for cells), neurotransmitters, cell regeneration	Whole grains, nuts and seeds, beans); legumes (beans), leafy greens, meats and poultry, eggs, seafood, yogurt, nutritional yeast, wheat germ
Choline	Component of cell membranes and neurotransmitters, supports memory, mood and brain cell production	Egg yolk, soybeans, fish, poultry, wheat germ, beans (legumes), whole grains
Magnesium	Cofactor for neurotransmitter and energy production, lowers dementia and stroke risk	Leafy greens, nuts and seeds, beans (legumes), whole grains
Polyphenols	Reduce inflammation, protect cells from degeneration, microbiome support (healthy gut supports healthy brain)	Berries, pomegranate, dark chocolate, green and black tea, turmeric, red wine, coffee, onions, garlic, herbs and spices, many fruits and vegetables
High Fiber Carbohydrates	Nourishes the microbiome, stabilizes blood sugar, fuel for the brain, B Vitamins and Magnesium	Whole grains, root vegetables, beans (legumes), nuts and seeds, fruits and vegetables

Meal Planning

"It takes as much energy to wish as it does to plan"

Attributed to Elanor Roosevelt



Finding your Motivation

- What really matters to you?
- What are the benefits?
- What are the barriers?

 Usually, motivation grows when you take action



Making the Case for Cooking







IMPROVING YOUR SKILLS



USING SUPPORTIVE EQUIPMENT/ TOOLS



SHIFTING YOUR MINDSET



KEEP IT SIMPLE

Equipment than makes cooking easier

- Crock pot or instapot
- Air frier
- Panini press
- Blender
- Vegetable chopper
- Salad spinner
- A good knife



Meal planning strategies and tips

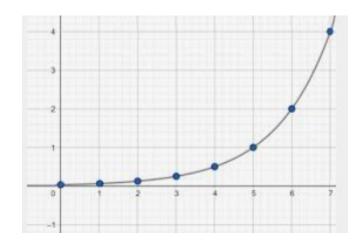
- Find a planning tool online, notebook...
- Schedule a time every week to meal plan
 - Start small if it feels like a lot
 - 2 breakfasts
 - Leftovers for lunch + 2 others as back up
 - 2-3 dinners
- Plan for leftovers use in another meal
 - Use the sweet potatoes from dinner and eat with eggs for breakfast or in a salad at lunch the next day
- Keep staples on hand grains, beans, frozen foods, condiments
 - Pick a couple each week to base your meals from
- Keep a running list of what you run out of (for example: erasable whiteboard)



Make a Goal and a Plan

- What will be your goal for the week?
 - Plan a meal?
 - Cook something from scratch?
 - Try a new recipe using MIND / MEDI ingredients?
- Take it step by step multiple small changes add up over time





Inspiration for Cooking

Mediterranean Diet Recipes:

- Old Ways Foundation (website)
- Eating Well Magazine Mediterranean Diet Center (website)

Mind Diet Recipes:

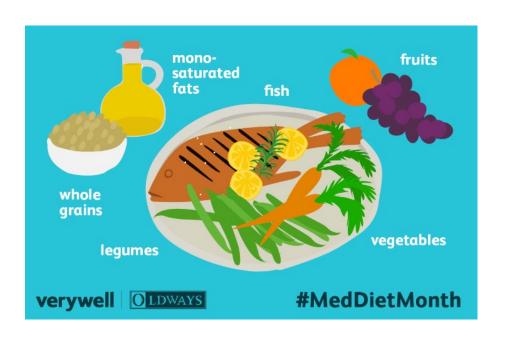
- Mind Diet Recipes by Julie Andrews MS, RDN (book)
- Mind Diet for Beginners by Kelli McGrane, MS, RDN (book)
- Diet for the Mind by Dr. Martha Clare Morris (book)
- The MIND Diet: A Scientific Approach to Enhancing Brain Function by Maggie Moon, MS, RDN (book)

Whole Grain Recipes:

Whole Grains Council (website)

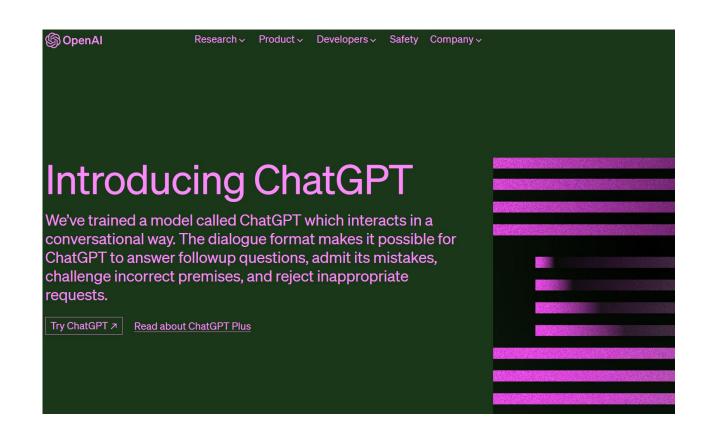
Bean Recipes:

The Bean Institute (website)



Chat GPT – Artificial Intelligence online tool can help with meal ideas, recipes and shopping lists

- https://openai.com/blog/chatgpt
- Ask it how to ask it:
 - What would you need to know to make a meal plan for me?
- Potential prompts:
 - Can you give me 3 dinners using MIND diet principles that can be made in 20 minutes or less
 - Provide recipes and a shopping list for these meals....
 - Provide a recipe for how to use these three ingredients (enter ingredients) based on a Mediterranean diet
 - Create a shopping list for the recipes you just gave me



Turmeric — Anti-Inflammatory, Neuroprotective

- Turmeric Tea
- Golden Milk
- Curry
- Add to foods: eggs, rice, sauteed vegetables, smoothies, soups...









Image credit: https://www.indiamart.com/proddetail/turmeric-curcuma-longa-8663125997.html

Berries – fiber, polyphenols, omega 3's, prebiotics

Berry Jam

- 3 cups fresh or 2 cups frozen berries
- 2 Tablespoons chia seeds
- 1-2 Tablespoons maple syrup (optional)
- 2 Tablespoons lemon zest (optional)
- Combine ingredients in a pot and simmer over medium heat until bubbly – use a fork to mash some of the berries
- Remove from heat and store in a jar for up to 1 week



- Use in place of jam
- Stir into oatmeal or yogurt
- Top whole gain pancakes, toast or waffles
- Add to smoothies

Choline — memory, mood, brain cell production, neurotransmitters

Turmeric Deviled Eggs

6 eggs

¼ cup olive oil mayo

1 tsp ground mustard seed

2 Tablespoons lemon juice

¾ teaspoon turmeric powder

1/8 teaspoon salt

Ground pepper to taste

Garnish with paprika and dill



- 1. Boil eggs until hard cooked (5-7 minutes) let cool
- 2. Peel eggs and cut in half lengthwise
- 3. Scoop out the yolks and place in a medium mixing bowl
- Add remaining ingredients (except for garnish) and mix well with a fork
- Scoop a portion of the yolk mixture back into each egg, dividing equally
- 6. Garnish with paprika and dill

Eat More Nuts and Seeds

Add to.....

- Salads, stir fry, curry, grains and cooked vegetables to add more protein and crunch
- Cereal and oats (overnight oats)
- Smoothies

- Have a mix of nuts, seeds, dried fruit and dark chocolate
- Make a veggie, fruit and nut plate for a snack



Eat More Beans - can you eat ½ - 1 cup a day or at least several times a week?

Hummus / Hommus

Bean Dip

Bean soup

Roasted chickpeas with spices

Edamame (green soybeans)

Add beans and lentils to your salads, vegetable and pasta dishes

Have eggs with black beans and salsa

Have as a side dish



https://beaninstitute.com/

Roasted Curry Cauliflower with Chickpeas — fiber, B

vitamins, magnesium, neuro protective

- Preheat oven to 350 400 degrees
- Wash and chop 1 head cauliflower (or buy prewashed and chopped)
- Drain a can of garbanzo beans
- Place cauliflower and beans in a large mixing bowl
- Add 1-2 Tablespoons olive oil and 1-2 Tablespoons curry powder and salt to taste and toss to coat
- Spread onto a baking sheet and bake for 30 35 minutes
- Squeeze the juice of one lemon over the top and sprinkle feta cheese and pine nuts (optional)
- Add chopped arugula or fresh herbs (dill, parsley, tarragon, chives) to the top (optional)



Image credit: https://www.onegreenplanet.org/vegan-recipe/turmeric-roasted-cauliflower-with-chickpeas/

Saffron - Neuroprotective, Anti-depressant, Anti-anxiety

- Saffron tea
- Saffron rice
- Add to soups and stews
- Add a pinch it goes a long way

Traditionally it is ground into a powder

Saffron Tea

~10 threads of Saffron
1 cup hot water
1 teaspoon honey
(optional)

Let steep covered for 10 minutes



Saffron Crocus: https://safaroma.com

Resources for Further Reading:

- Harvard Review: MIND Diet: https://www.hsph.harvard.edu/nutritionsource/healthy-weight/diet-reviews/mind-diet/
- FINGERS research: https://wwfingers.com/
- Mediterranean Diet: Old Ways Foundation https://oldwayspt.org/health-studies
- B Vitamins and the Brain: Kennedy DO. B Vitamins and the Brain: Mechanisms, Dose and Efficacy--A Review. Nutrients. 2016 Jan 27;8(2):68. doi: 10.3390/nu8020068. PMID: 26828517; PMCID: PMC4772032.
- Blue Zones (Book) by Dan Buettner https://www.bluezones.com/

QUESTIONS?