Source: KBe20bio201retDietFinderIndex

1. How many grams of protein do you want/need per day? What sources are you using for this determination?

It seems like 0.8 g per kg of human male is the accepted RDI. Harvard Health Blog, verywell fit, healthline

2. What is your preferred animal:plant protein ration and why? (essential amino acids, environmental)

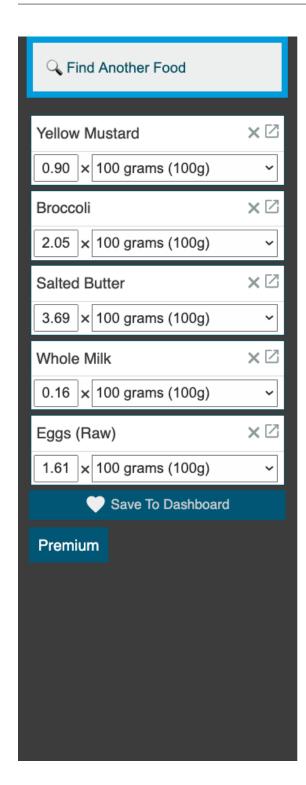
I don't have a strong preference on what my preferred ratio is, especially because I don't pay too much attention to what I eat. I don't particularly like eating food, and I don't particularly like eating meat, so I think I could go for a more environmentally friendly ratio, because even "overdosing" on some amino acids to hit the rarer ones RDI would be less environmentally impactful than eating more meat.

3. Using https://www.myfooddata.com (Links to an external site.), build a single day meal plan that achieves your goals. #todo-exr0n

From the script

```
Phenylalanine 81.2080685572291 %
Valine 124.11991193514258 %
Leucine 94.13009551708133 %
Isoleucine 121.33660481656196 %
Lysine 98.99885464164082 %
Threonine 117.22718754701687 %
Tryptophan 136.44759141786292 %
Methionine 76.60724610188446 %
Histidine 93.59079200960244 %
You better goddamn eat 205.162743g o' broccoli
You better goddamn eat 90.416268g o' mustard
You better goddamn eat 369.057053g o' butter stick
You better goddamn eat 16.536808g o' whole milk
You better goddamn eat 161.597425g o' whole eggs
```

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Amino Acids		%RDI	
	,	~ = missing data	
Weight	841g		
Betaine	2mg		
Tryptophan	395mg	141%	
Threonine	1388mg	132%	
Isoleucine	1588mg	113%	
Leucine	2630mg	96%	
Lysine	2272mg	108%	
Methionine	849mg	117%	
Cystine	593mg	207%	
Phenylalanine	1657mg	189%	
Tyrosine	1203mg	138%	
Valine	2051mg	113%	
Arginine	2067mg		
Histidine	826mg	118%	
Alanine	1668mg		
Aspartic acid	3436mg		
Glutamic acid	5226mg		
Glycine	1160mg		
Proline	1722mg		
Serine	2195mg		
Hydroxyproline	~mg		

4. Cross check the https://www.myfooddata.com (Links to an external site.) essential amino acid values/food with the tables in the slides (Links to an external site.). Do they seem consistent? Provide evidence for you answer.

Well, we used the RDI from an external dataset. The my food data website said that this was the data they used, but the RDI values were somewhat different. However, the values the script comes up with are pretty similar to the website, although our RDI seems to be higher than the website.

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5. Were there any essential amino acids, vitamins, or minerals needs that were challenging to satisfy during your meal planning? What are some foods particularly high in that vitamin or mineral?

Tryptophan and Methionine	, which seems to	be mostly taken	care of by milk	and eggs.

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