



Michigan

Nutrition and Obesity Research Center

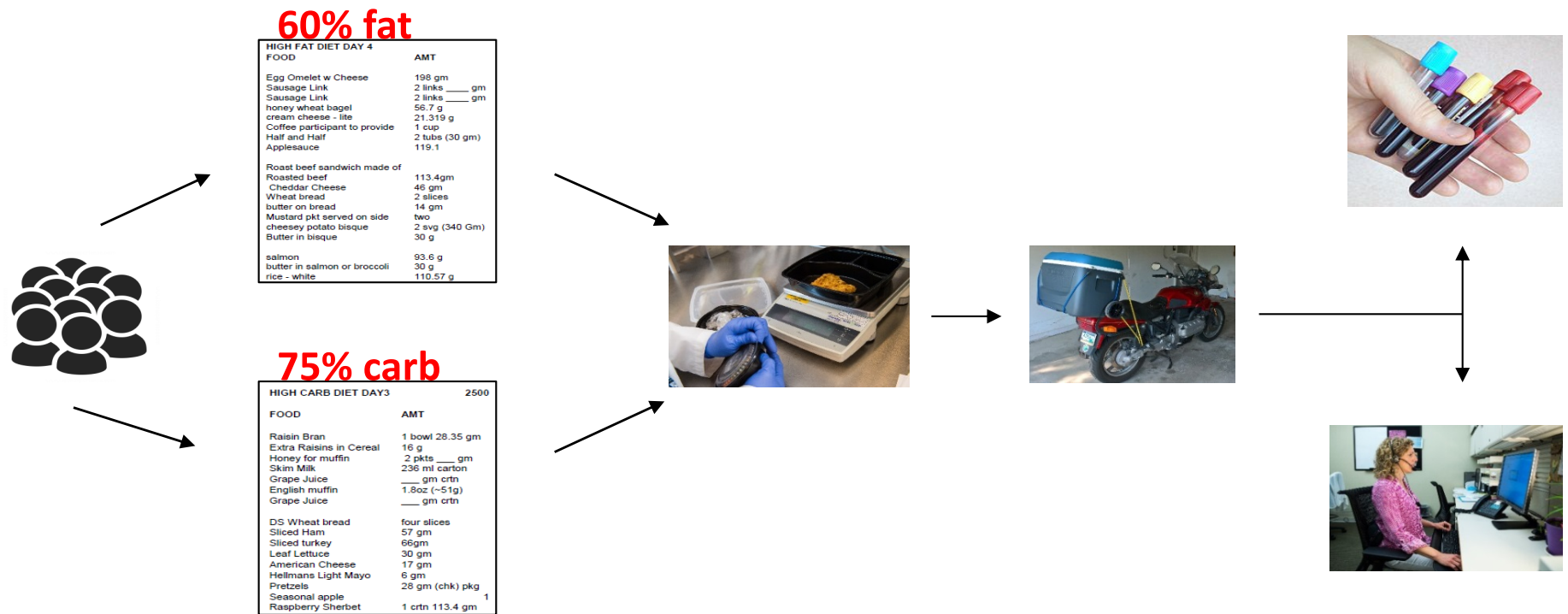
Nutrition, Exercise & Phenotype Testing Core

Co-Directors

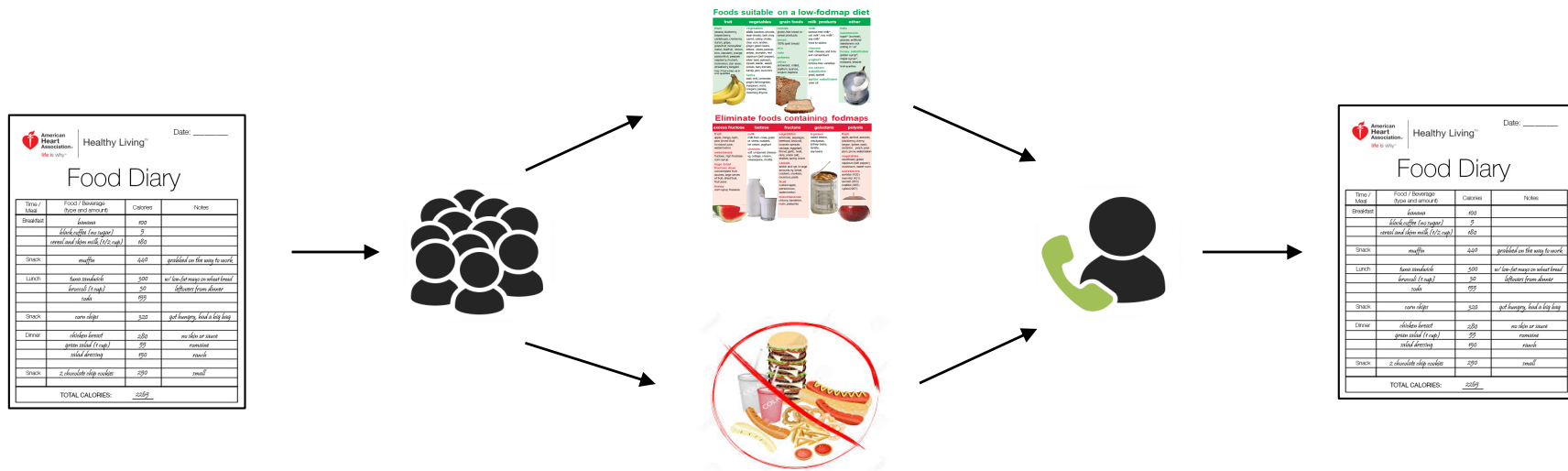
Jeffrey Horowitz - Kinesiology

Karen Peterson - Nutritional Sciences

Our services were used alongside **metabolomic analyses** to assess the metabolite profile of individuals in response to a dietary intervention



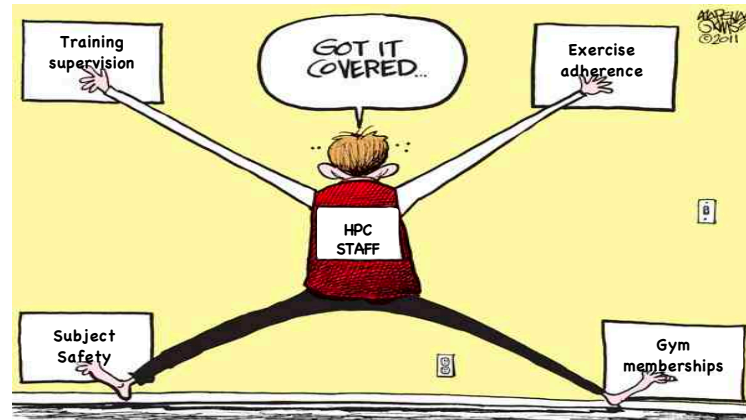
A gastroenterologist used our nutrition services to conduct a **dietary intervention** in patients with IBS.



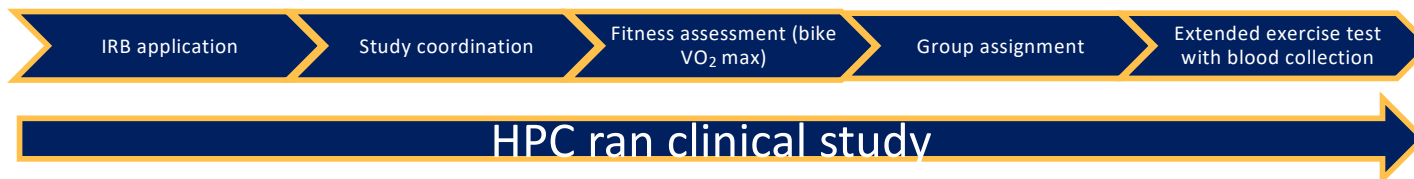
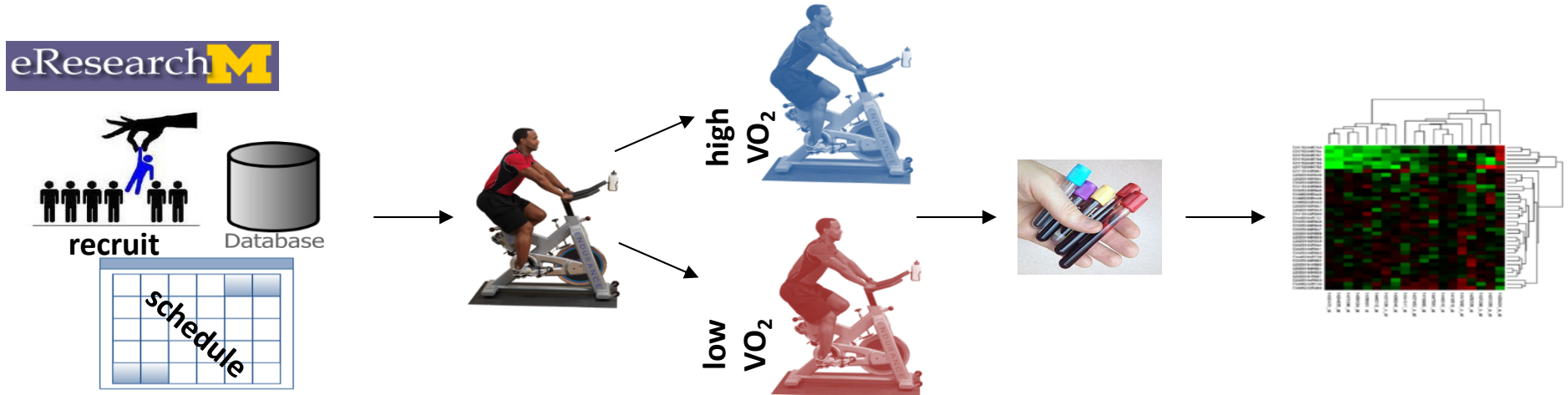
GI Symptom Assessment



Researchers in neurology are using our exercise support services to conduct an **exercise training intervention.**



An analytical chemist investigating the association between **exercise capacity, fuel selection** and **metabolic health** utilized our services.

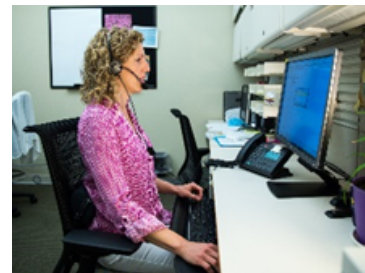


Our **expertise and training services**, allowed a behavioral pediatrician to accurately assess obesity and the dietary intake of children

In the field



In the office



NDSR 2018 Nutrient Totals Report	
Project Abbreviation: socclass	Date of Intake: 09/09/2018
Participant ID: test	
Primary Energy Sources	
Energy (kilocalories)	2074 kcal
Energy (kilojoules)	8684 kJ
Total Fat	76.766 g
Total Carbohydrate	265.404 g
Available Carbohydrate	234.476 g
Total Protein	49.327 g
Animal Protein	42.446 g
Vegetable Protein	26.887 g
Gluten	10.794 g
Alcohol	15.581 g
% Calories from Fat	32.462 %
% Calories from Carbohydrate	69.296 %
% Calories from Protein	13.082 %
% Calories from Alcohol	5.255 %
Fat and Cholesterol	
Cholesterol	211 mg
Solid Fat	46.391 g
Total Saturated Fatty Acids (SFA)	14.646 g
Total Monounsaturated Fatty Acids (MUFA)	24.633 g
Total Polyunsaturated Fatty Acids (PUFA)	10.439 g
Total Trans Fatty Acids (TRANS)	2.046 g
Total Omega-3 Fatty Acids (CLA 18:2)	0.252 g
Omega-3 Fatty Acids	1.575 g
% Calories from SFA	14.724 %
% Calories from MUFA	10.368 %
% Calories from PUFA	4.91 %
Polyunsaturated to Saturated Fat Ratio	0.301
Cholesterol to Saturated Fatty Acid Ratio	45.523
Carbohydrates	
Total Sugars	189.201 g
Fructose	12.992 g
Galactose	0.556 g
Glucose	16.693 g
Lactose	12.962 g
Maltose	0.786 g
Sucrose	25.009 g
Sucralose	107.879 g
Added Sugars (by Total Sugars)	41.102 g
Added Sugars (by Available Carbohydrate)	41.324 g

We can help take your grant to the next level **within budget.**

Sample budget: 2-year **intervention**, 5 year **NIH funded** project

	MNORC HPC		Individual Laboratory	
	per participant	100 participants	per participant	100 participants
exercise supervision	\$25/session x 104 sessions = \$2600	\$ 260,000	\$15/session x 104 sessions = \$1560	\$ 156,000
exercise facility fee	\$130/month x 24 months = \$3080	\$ 308,000	\$130/month x 24 months = \$3080	\$ 308,000
exercise protocol development, coordination, oversight, obtain/maintain facility access	included	\$ -	\$50,000/exercise physiologist x 20%	\$ 68,750
		\$ -	\$55,000/study coordinator x 30%	\$ 113,438
		\$ 568,000		\$ 646,188
<i>Add fitness assessment at pre, mid, post to this study</i>				
VO₂ max assessment	\$70/test x 3 = \$210	\$ 21,000	\$50,000/exercise physiologist x 15% effort	\$ 51,563
			\$30,000/tech x 15% effort	\$ 30,938
		\$ 589,000		\$ 728,689

For information on specific services and rates, please contact:



<https://medicine.umich.edu/dept/mnorc/core-services/nutrition-exercise-phenotype-testing-core>

The screenshot shows the website for the Michigan Nutrition Obesity Research Center (MNORC). The header includes the Michigan Medical School logo and the text "MICHIGAN NUTRITION OBESITY RESEARCH CENTER". A search bar is located in the top right corner. The main content area is titled "Human Phenotyping Core" and includes a breadcrumb trail: "Home » Core Services » Human Phenotyping Core". The page describes the overall objective of the HPC and lists the services provided in three categories: General Phenotyping, Bionutrition support through the Nutrition Assessment Laboratory (NAL), and Physical activity/exercise assessments, testing, and exercise intervention support through the Physical Activity Laboratory (PAL). A "Research Acknowledgement" section is also visible at the bottom left of the page content.



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