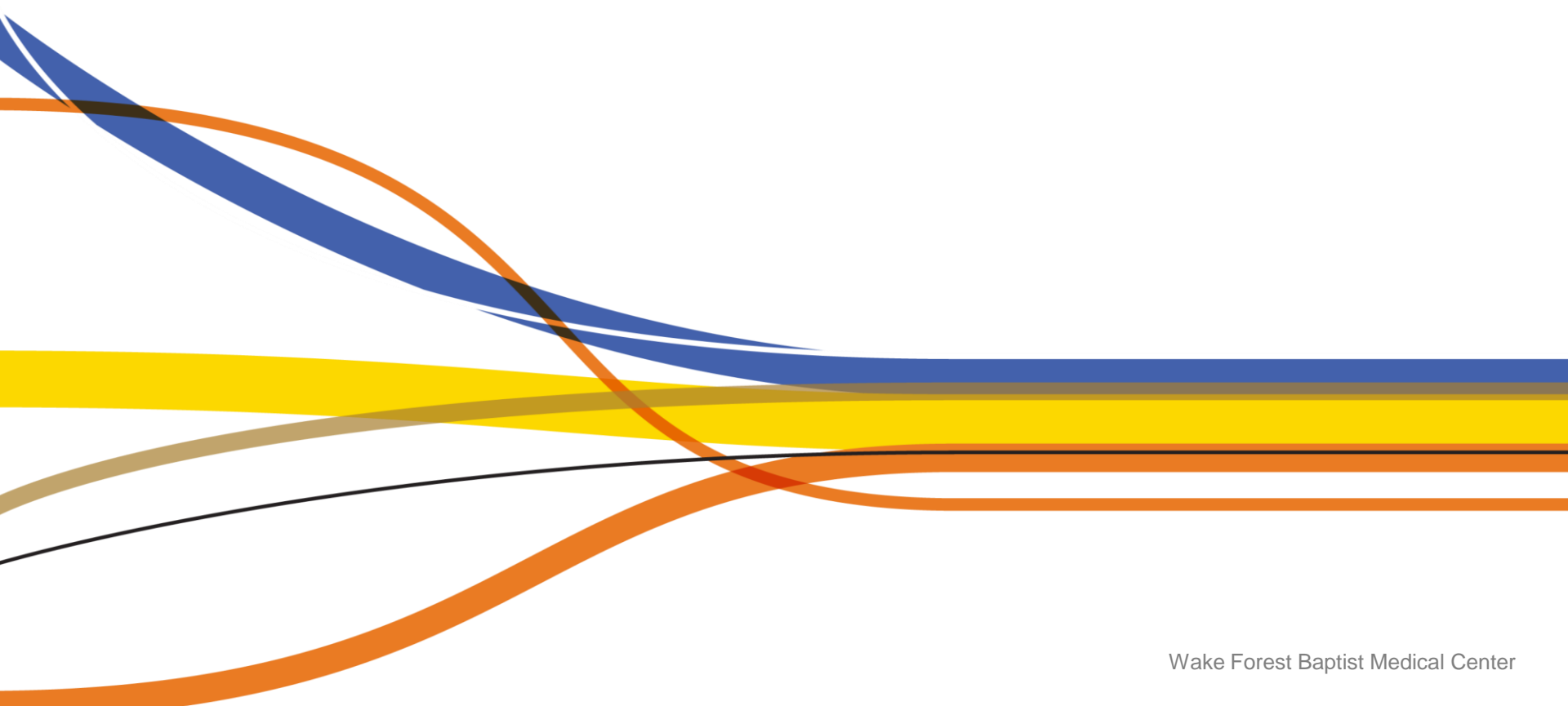


Center for Comparative Medicine (CCMR) Diet Laboratory

Susan E. Appt, DVM, Associate Professor Pathology



Scientific Focus of the Diet Laboratory

- To provide diets for animal models that mimic closely the nutritional context within which human disease develops
- Consider the following when formulating diets
 - What are the research hypotheses?
 - Why is a semi-purified diet required?
 - How are metabolic differences accounted for when translating data to human beings?
 - What is the availability of dietary components?
 - Palatability
 - Diet storage

Services Available

- **Develop custom research diets** for animal models to meet individualized preclinical research needs
- **Collaborate** with Principal Investigator to formulate the diet
- **Identify** sources of ingredients (natural, semi-purified and purified)
- **Test** nutrient content of ingredients
- **Incorporate test compounds** into diets
- **Archive** diet samples for quality control and future testing
- **Archive** diet formulas for future use

Diet Laboratory Resources

Research Diet Composition Database

> 1500 Diets



Diet 0000	GM PER 100 GM	GRAMS PROTEIN	GRAMS LIPID	GRAMS CARBO	CAL/100 GM OF DIET	MG CHOL
INGREDIENT						
Casein, USP	8.50	7.44	0.00		38.50	0.22
Lactalbumin	8.50	7.99	0.23		32.49	0.85
Wheat Flour, self-rising	35.78	3.33	0.38	28.39	129.88	
Dextrin	9.00			9.00	36.00	
Sucrose	7.00			7.00	28.00	
Alphacel	8.00					
Lard	5.00		5.00		45.10	4.75
Beef Tallow	4.00		4.00		36.08	4.38
Butter, lightly salted	3.10	0.03	2.61	0.00	22.23	6.79
Safflower Oil (linoleic)	3.00		3.00		26.62	
Crystalline Cholesterol	0.092					92.00
Complete Vitamin Mix *	2.50			2.02	8.00	
Mod. #2 Ausman-Hayes***	5.00					
Calcium Carbonate	0.400					
Calcium Phosphate, Monobasic	0.100					
TOTAL	100.00	18.38	15.20	44.41	390.83	109.05
(Calories)		750.7	150.7	177.00		
Cholesterol (mg/Calorie)	0.28					
Protein (% of Calories)	19.0					
Lipid (% of Calories)	36.3					
Carbo (% of Calories)	46.8					
Calcium (mg/100 gm diet)	288.8					
Phos. (mg/100 gm diet)	281.8					
Calcium/Phosphorus	1.02					
FATTY ACIDS:	% OF FAT	% OF CALORIES				
Saturated (%)	41.8	14.7				
Monounsaturated (%)	35.6	12.6				
Polyunsaturated (%)	22.6	8.0				



Contact Information

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