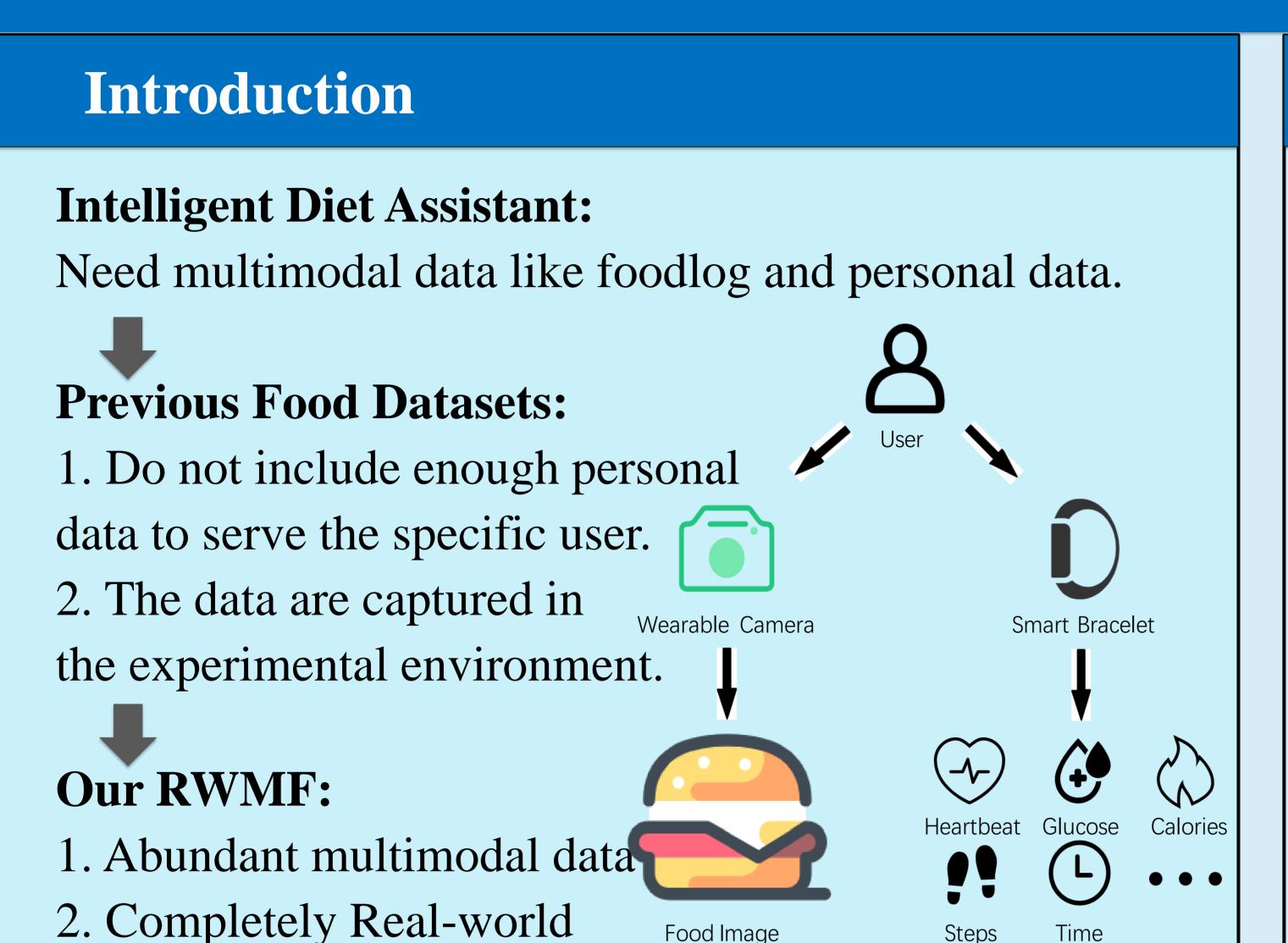
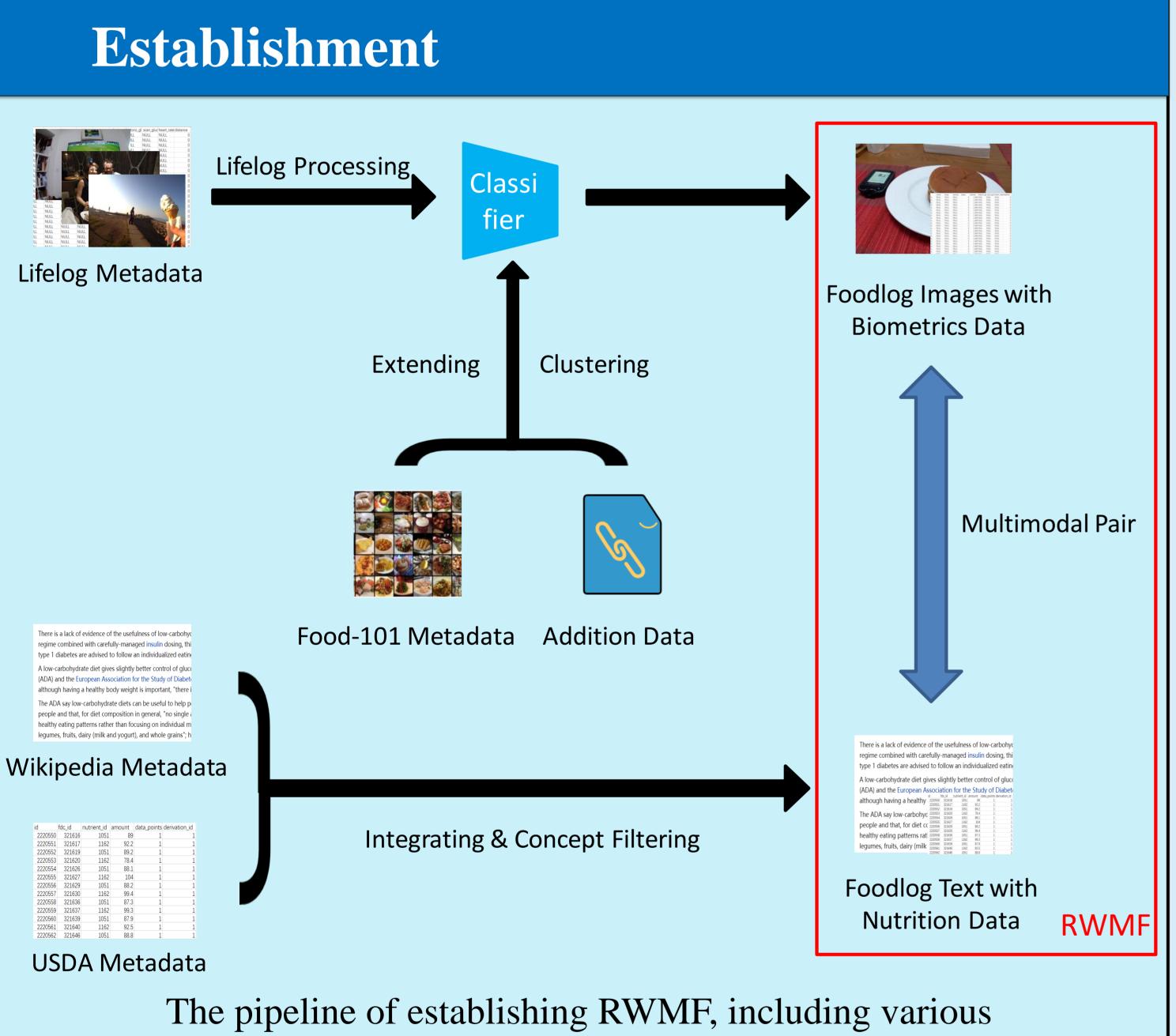
## RWMF: A Real-World Multimodal Foodlog Database

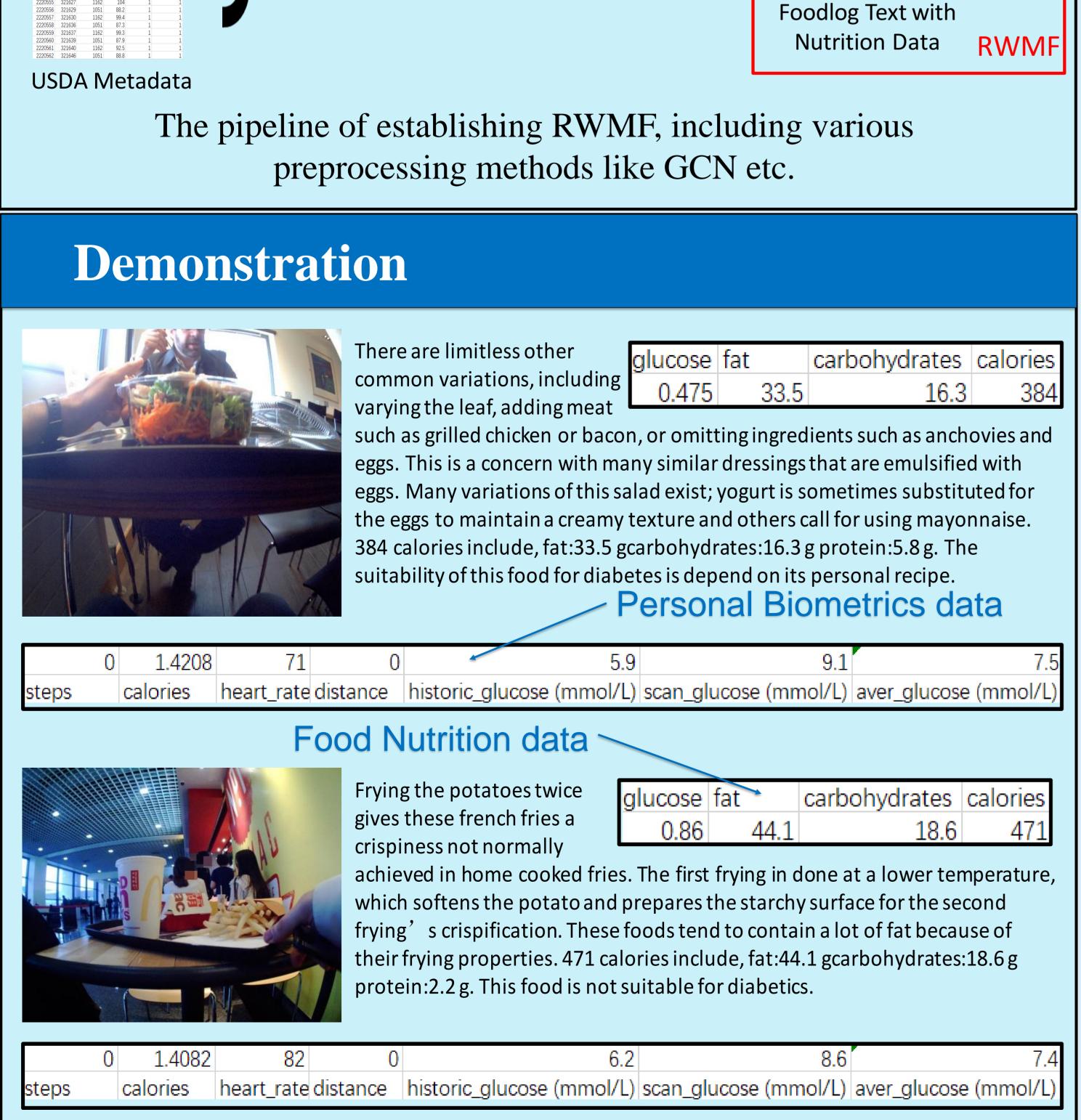


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Food Image





## Results

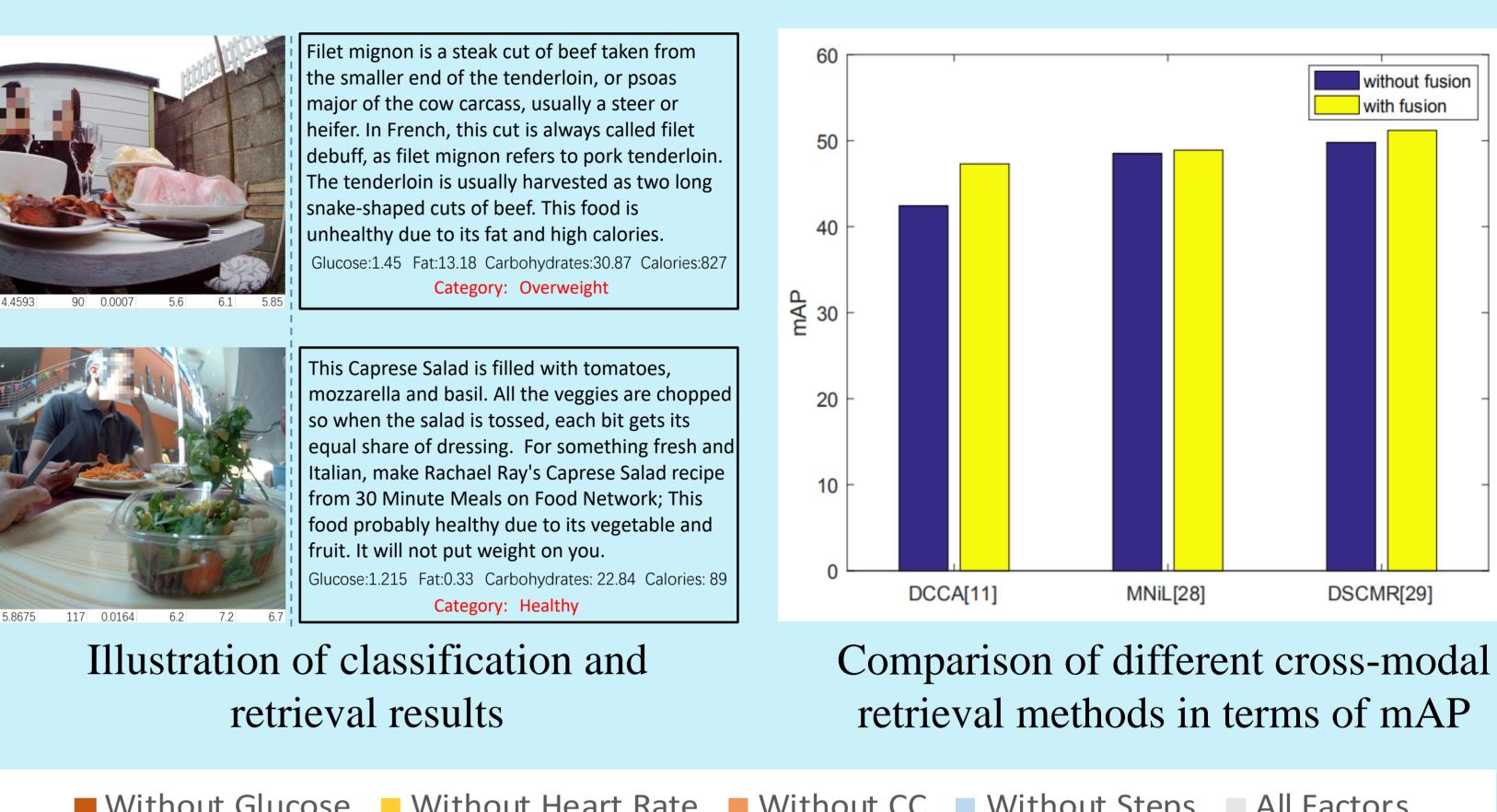
The established RWMF includes 7500 multimodal pairs.

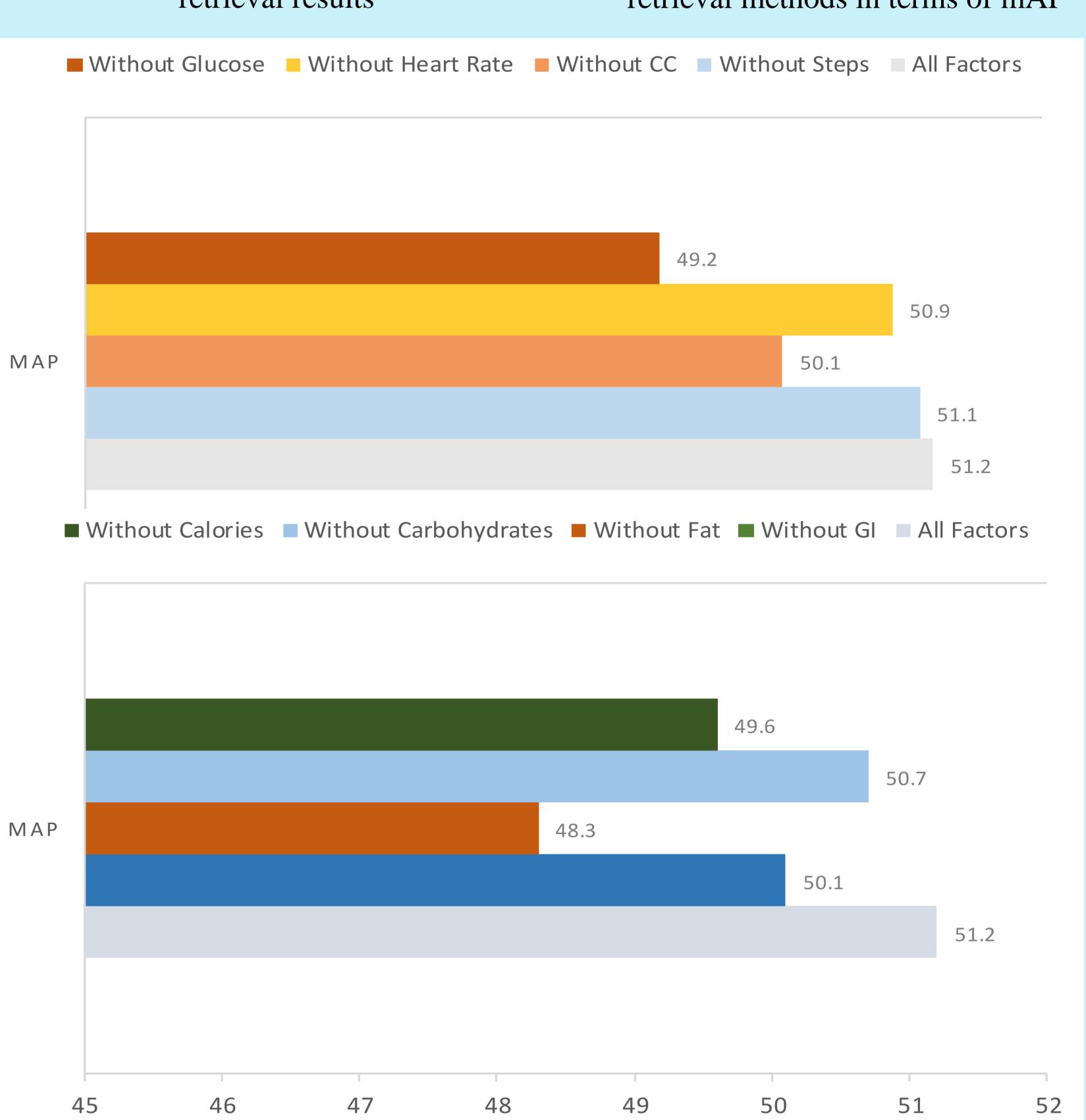
a food image with personal biometrics data
a textual food description with food nutrition data. Each pair: <

Three health-related main categories: Healthy, Overweight and Other.

Comparison of food classification results using different methods

	Datasets	Methods	Accuracy	Precision	Recall	<b>F</b> 1
	RWMF	SVM	83.97%	0.75	0.71	0.73
		SVM-fusion	85.21%	0.78	0.74	0.76
		VGG	76.84%	0.45	0.58	0.51
		ResNet-50	80.26%	0.65	0.66	0.65
		Inception-v3	82.13%	0.70	0.73	0.71
	Food-101	ResNet-50	90.64%	0.85	0.86	0.86





The performance cross-modal retrieval when each kind of data is removed. The CC means the calories consumption and the GI means the Glycemic Index.