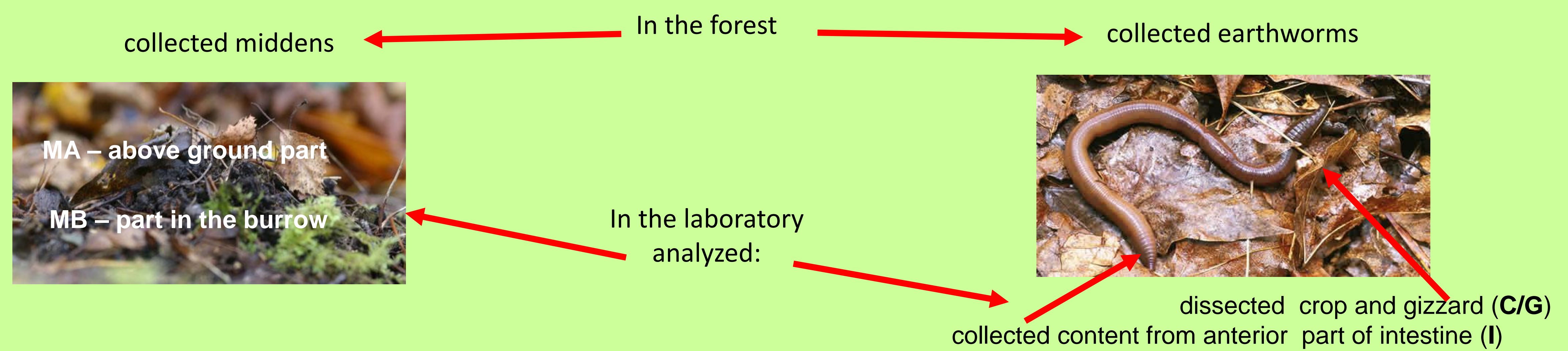


What is the composition and stoichiometry of food consumed by *Lumbricus terrestris*

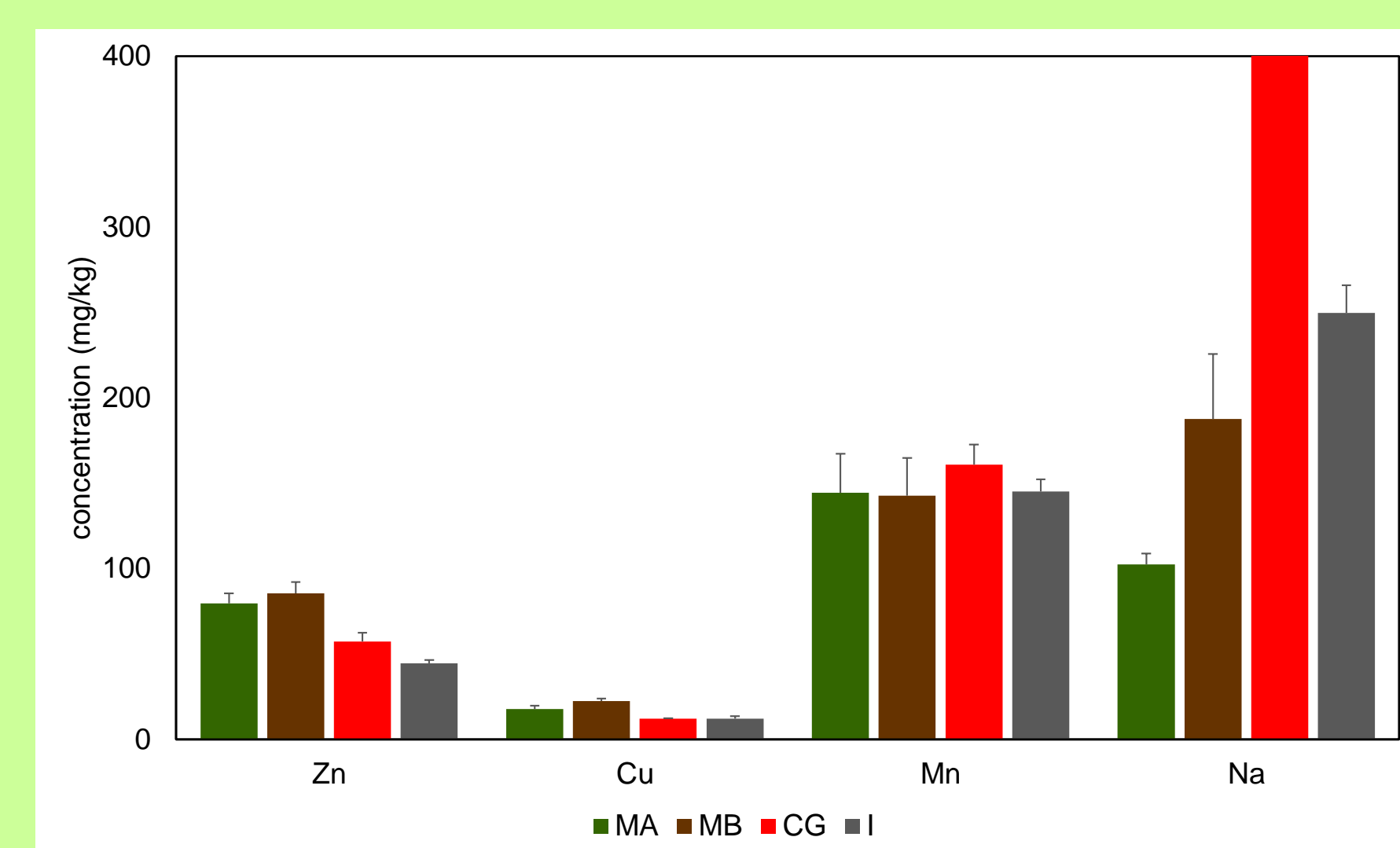
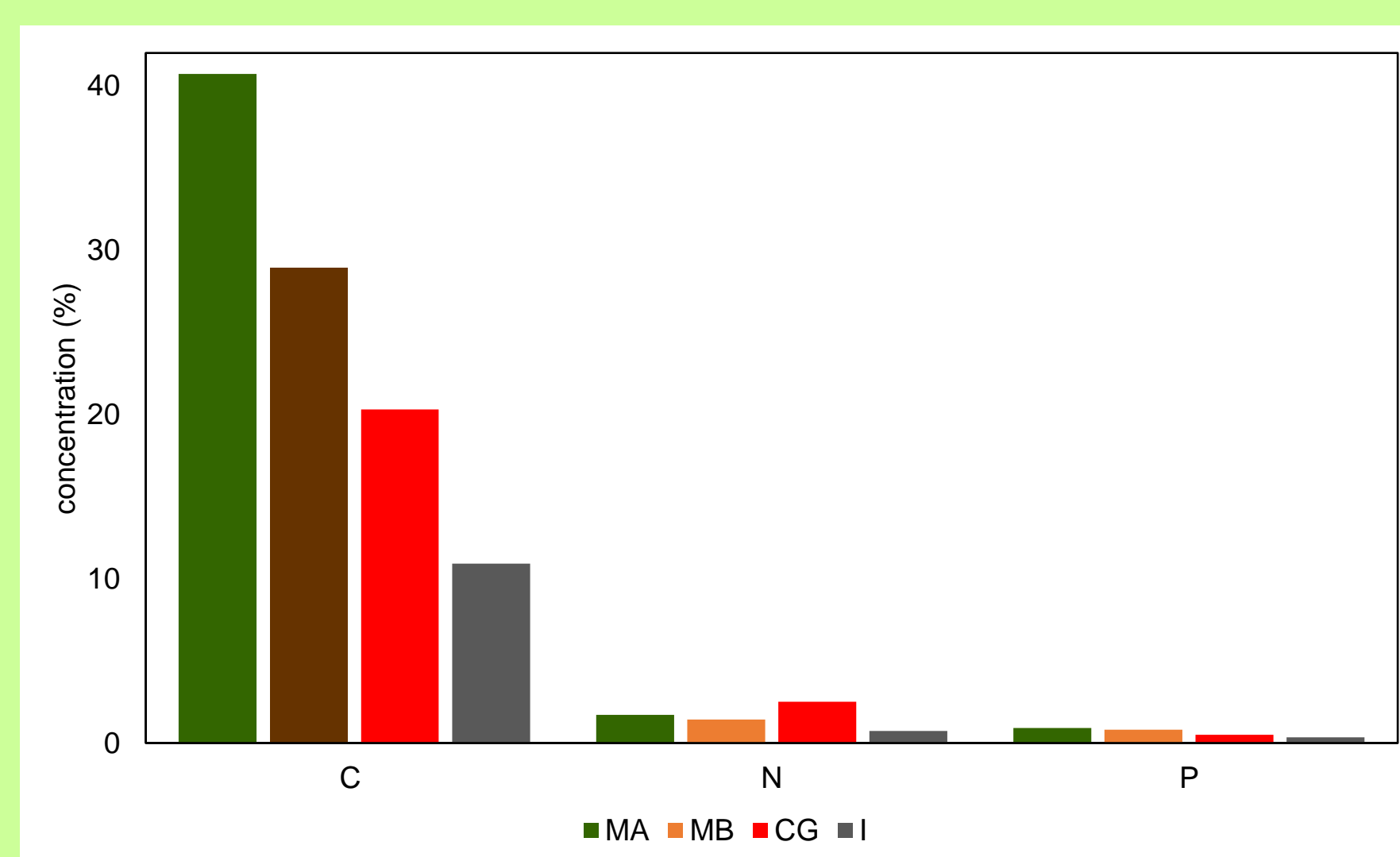
Anna Rożen, Dorota Twardzik, Łukasz Sobczyk
Institute of Environmental Sciences, Jagiellonian University, Kraków, Poland

Question 1: Are there differences in elemental composition between food available and consumed by *L. terrestris*?

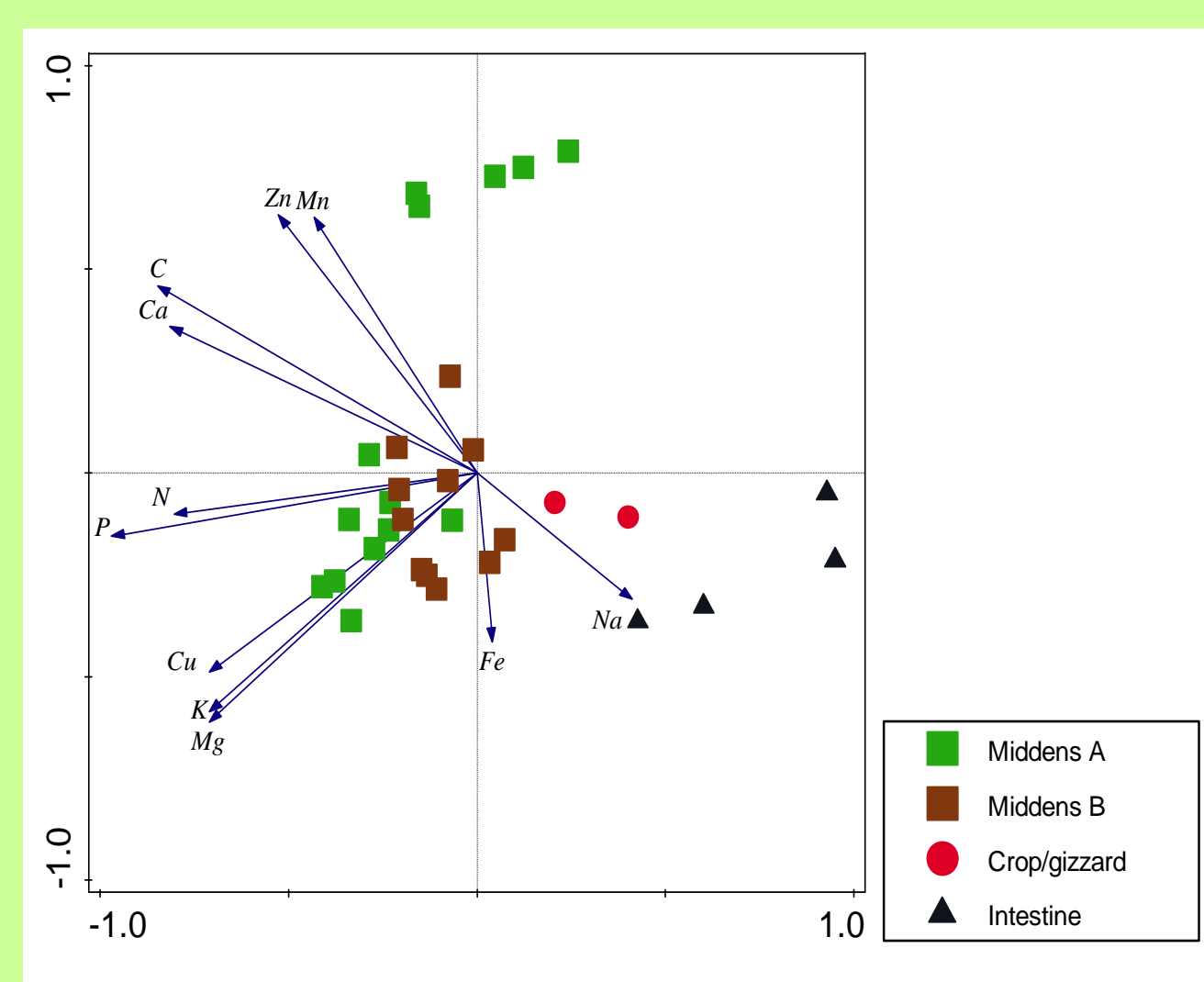
METHODS



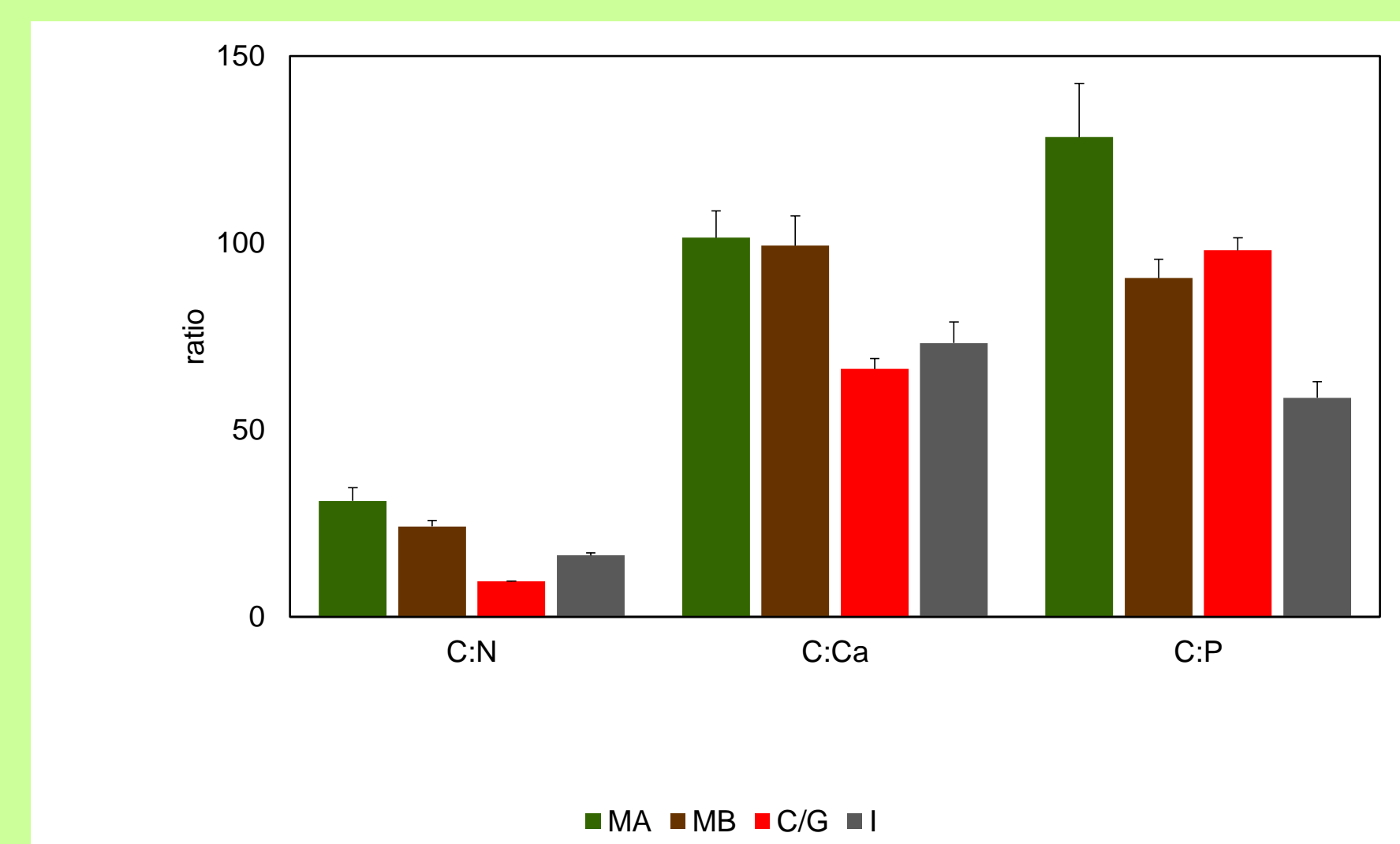
RESULTS



Elemental composition of middens, content of crop/gizzard and intestine



PCA ordination diagram of elements in: middens, content of crop/gizzard and intestine



Stoichiometric ratios of middens, content of crop/gizzard and intestine

Question 2: Are the observed differences due to selective feeding, or are they due to fluids (enzymes) in the digestive tract?

METHODS

Earthworms kept in boxes with moist filter paper

Analyzed: C/G content filter paper from boxes control filter paper

RESULTS

	C%	N%	S%	C:N
Filter paper C/G	41.98	3.441	1.357	14.2
Filter paper experimental	42.33	0.016	0.015	2988
Filter paper control	41.95	0.004	nd	13366

CONCLUSIONS: „Experiment 1” suggested selective feeding on material containing more N and Na, but results from „Experiment 2” indicate digestive tract fluids as a source of increased level of N in crop/gizzard content

