

# Bioactive compounds profiling and nutritional composition of three species from the Amaranthaceae family

B. Nuñez-Estevez<sup>1,2</sup>, T. C. Finimundy<sup>2</sup>, M. Carpena<sup>1</sup>, M. Barral-Martinez<sup>1</sup>, R. Calhelha<sup>2</sup>, T. C. S. P. Pires<sup>2</sup>, Paz Otero<sup>1</sup>, P. Garcia-Perez<sup>1</sup>, J. Simal-Gandara<sup>1</sup>, I.C.F.R. Ferreira<sup>2</sup>, M.A. Prieto<sup>1,2,\*</sup>, and L. Barros <sup>2,\*</sup>

1 Nutrition and Bromatology Group, Faculty of Food Science and Technology, University of Vigo, Ourense Campus, E32004 Ourense, Spain

2 Centro de Investigação de Montanha (CIMO), Instituto Politécnico de Bragança, Campus de Santa Apolónia, 5300-253 Bragança, Portugal

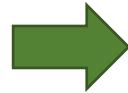
Correspondence: [\\*mprieto@uvigo.es](mailto:mprieto@uvigo.es); [\\*lillian@ipb.pt](mailto:lillian@ipb.pt)

# Introduction

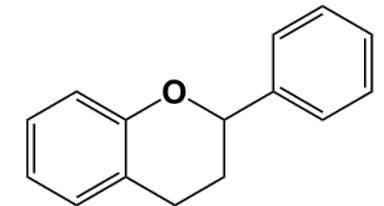
A  
M  
A  
R  
A  
N  
T  
H  
A  
C  
E  
A  
E  
  
F  
A  
M  
I  
L  
Y



*Alternanthera sessilis*



*Dicliptera chinensis*



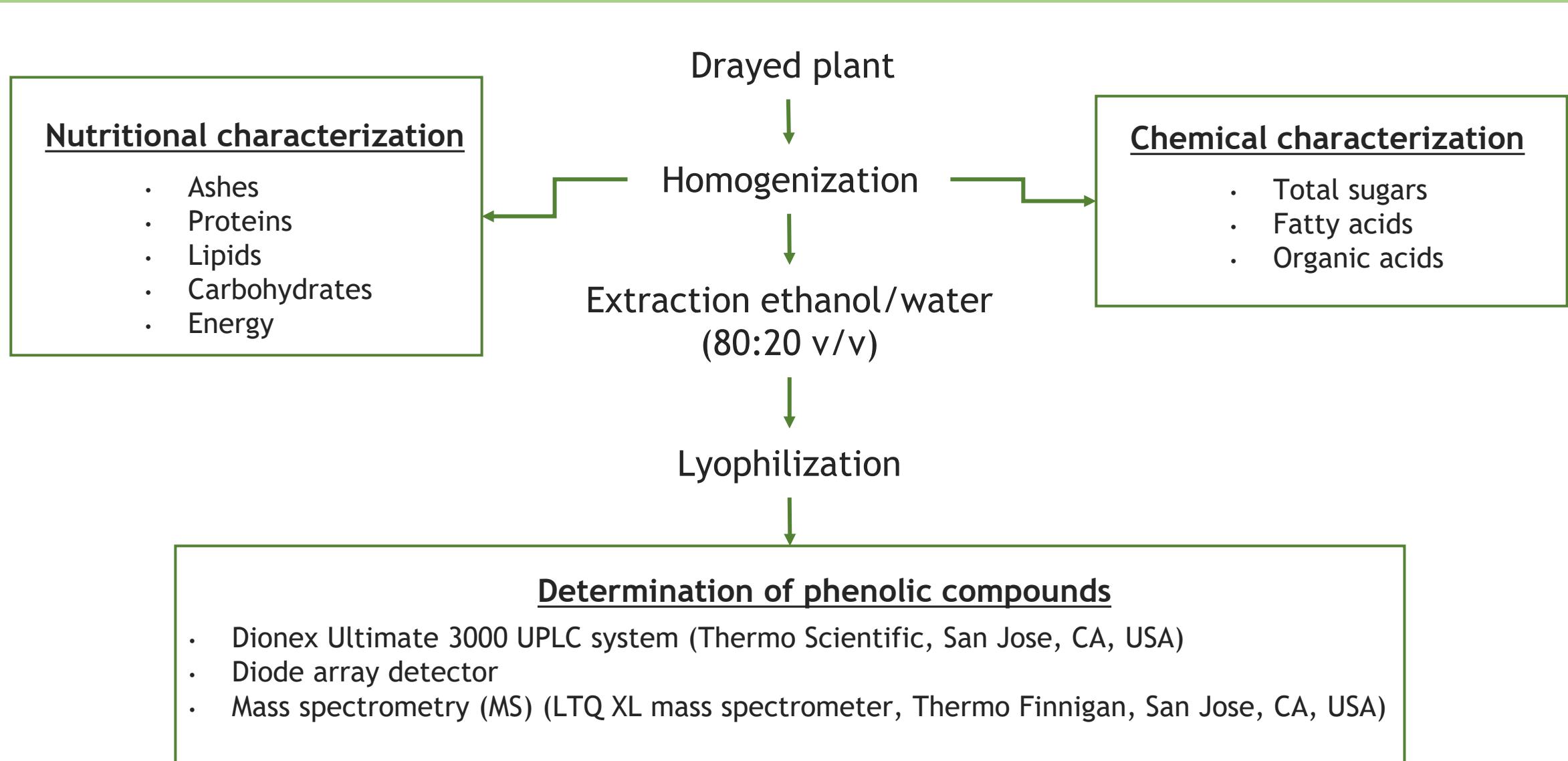
*Bioactive compounds*



*Dysphania ambrosioides*

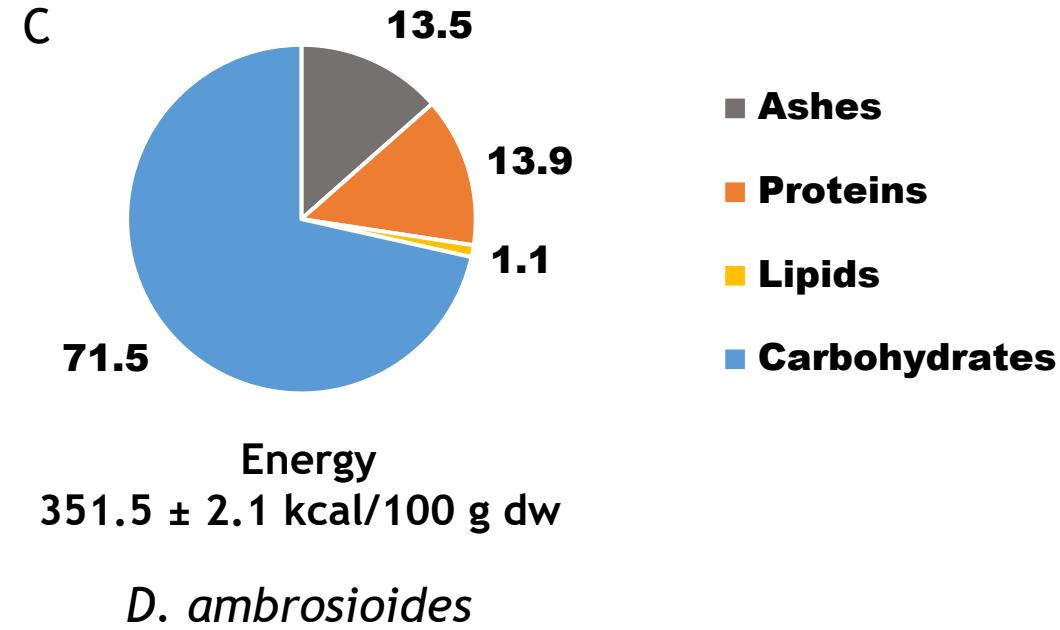
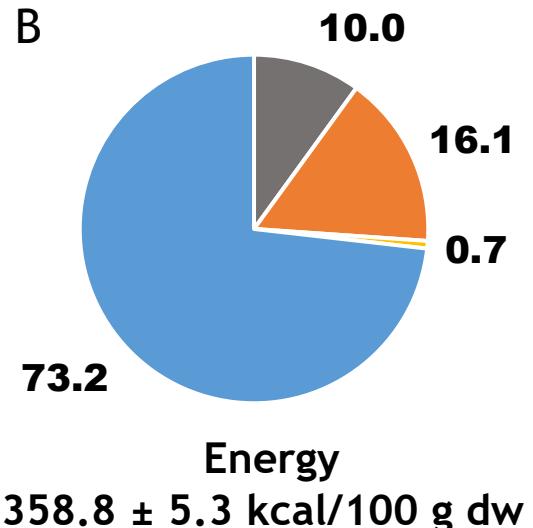
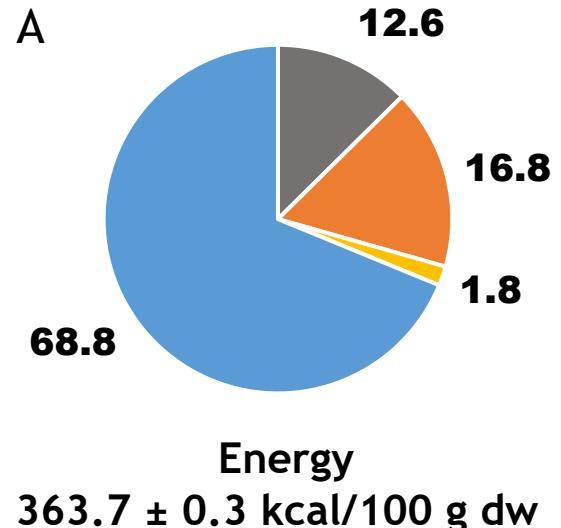


# Material and Methods



# Results

## Nutritionl characterization



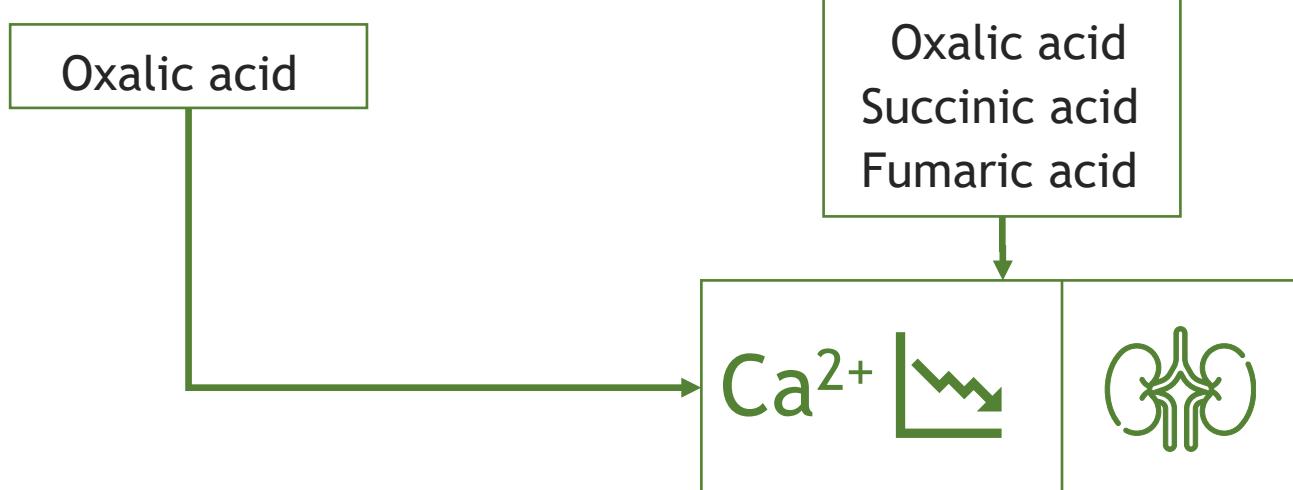
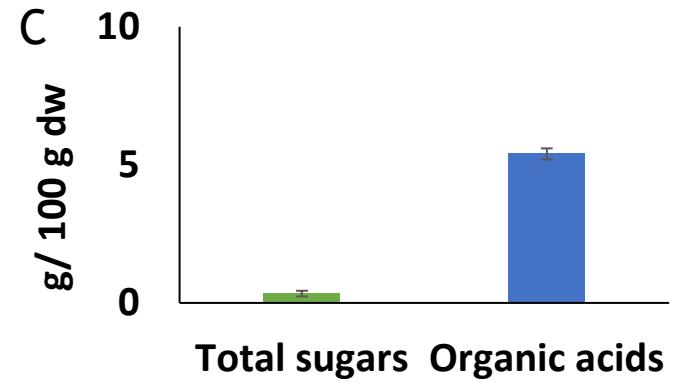
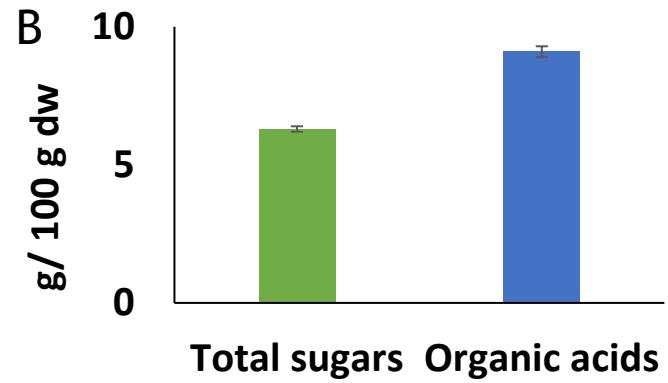
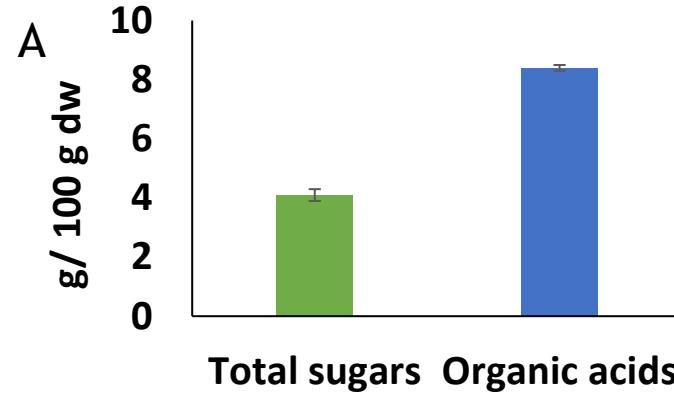
- Ashes
- Proteins
- Lipids
- Carbohydrates

Ashes	D. ambrosioides D. chinensis A. sessilis		Other genders of Amaranthaceae (Amaranthum)
Proteins	A. sessilis D. chinensis		Chenopodium quinoa (quinoa)

Lipids	D. ambrosioides D. chinensis		
Carbohydrates	D. ambrosioides D. chinensis A. sessilis		

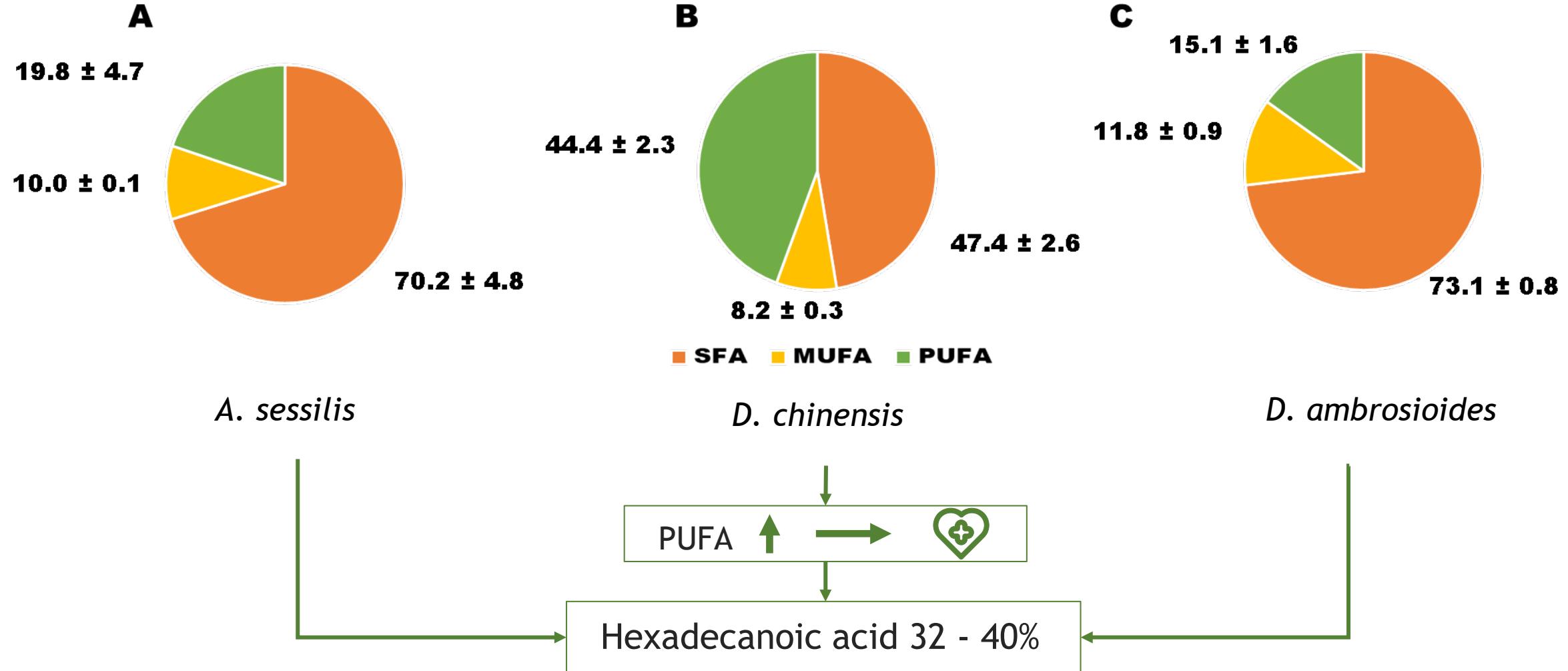
# Results

## Chemical characterization



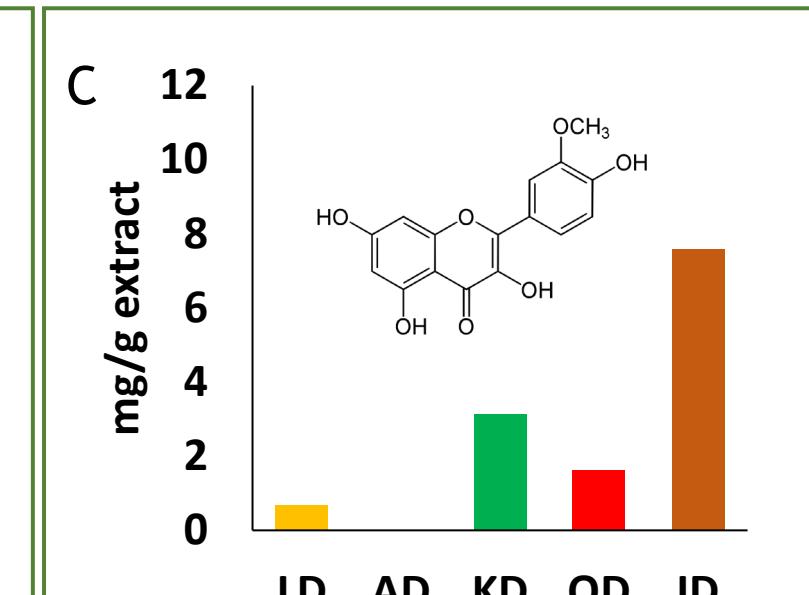
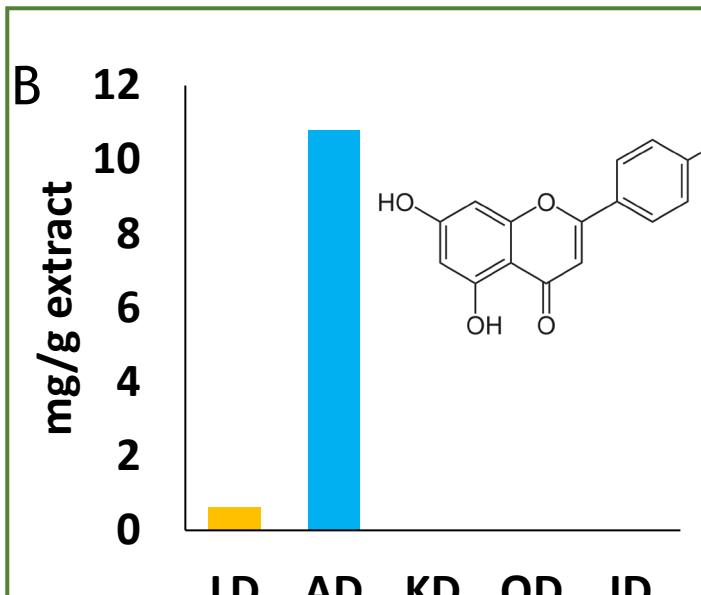
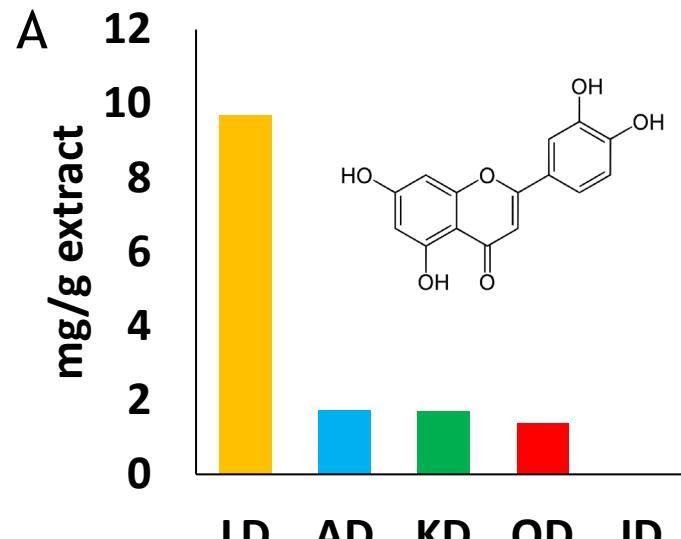
# Results

## Chemical characterization



# Results

## Phenolic compounds



BIOACTIVITIES

# Conclusions

