



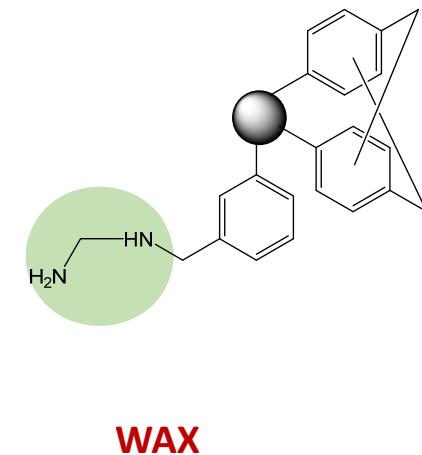
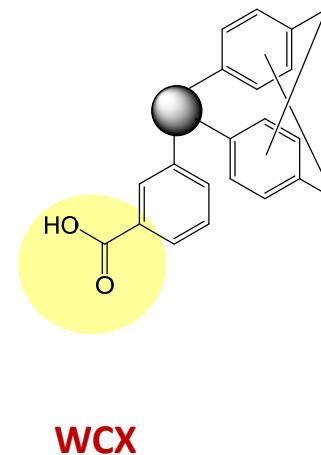
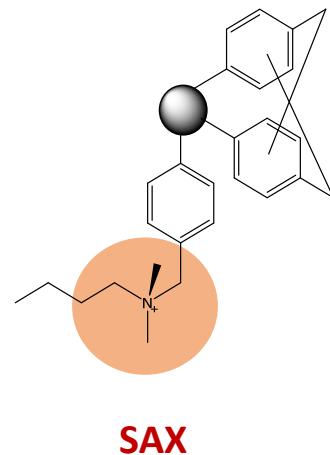
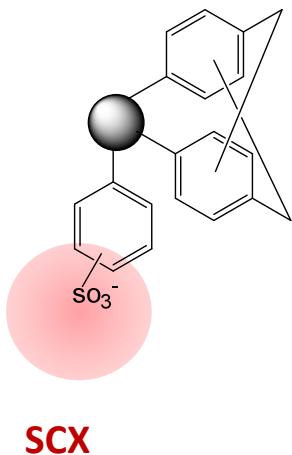
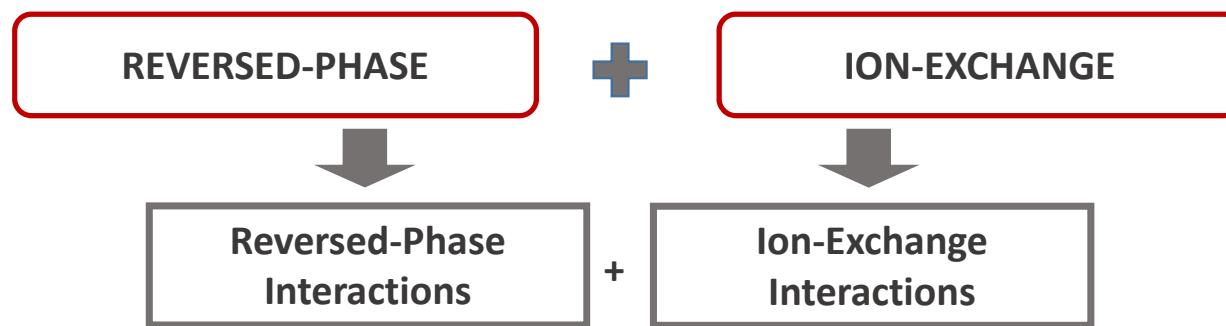
**RED NACIONAL PARA LA INNOVACIÓN
EN LAS TÉCNICAS DE TRATAMIENTO
DE MUESTRAS MINIATURIZADAS**

ESCUELA DE VERANO 2022

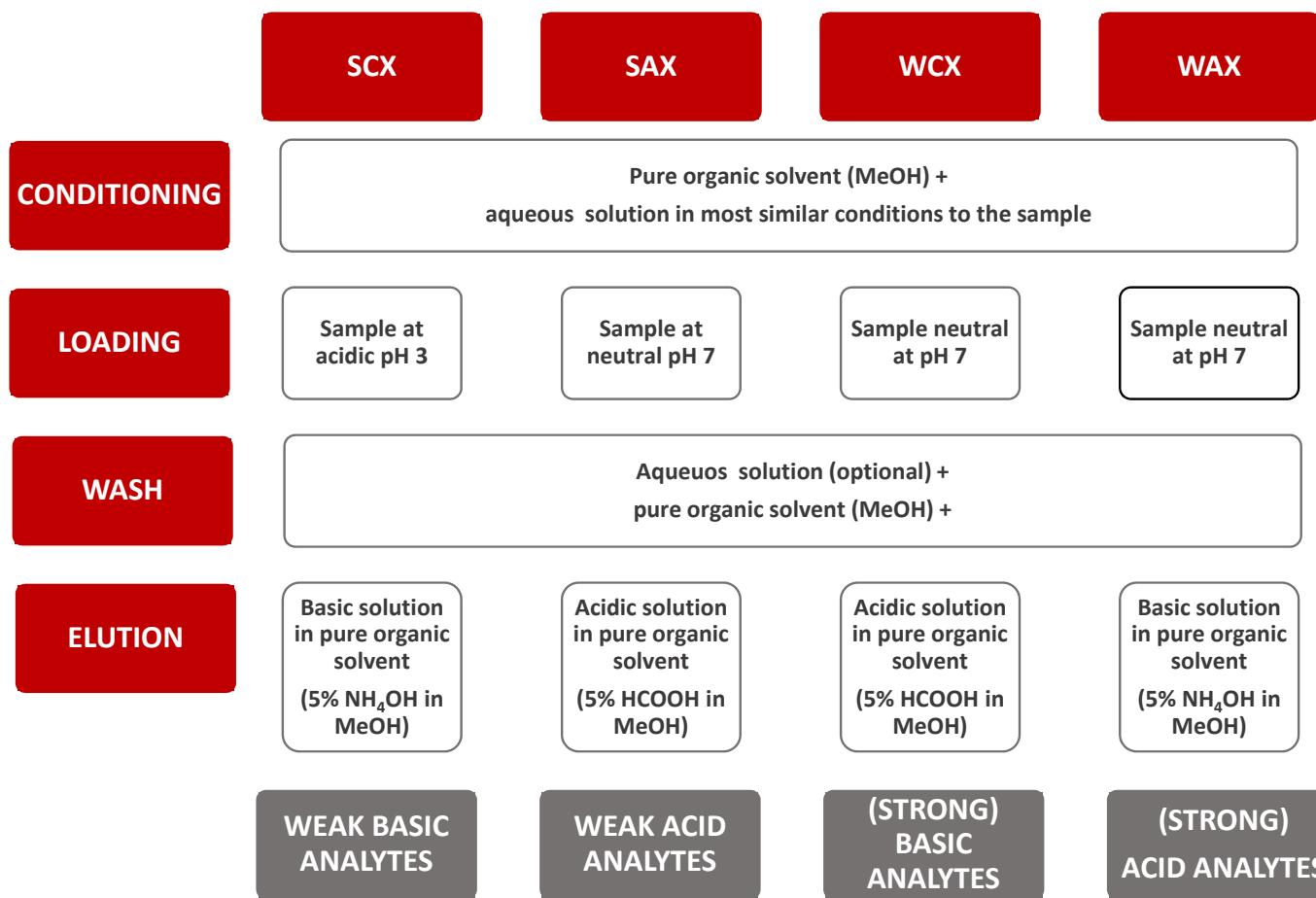
APLICACIÓN DE MATERIALES DE INTERCAMBIO IÓNICO DE MODO MIXTO A TÉCNICAS DE EXTRACCIÓN

Núria Fontanals, Rosa Maria Marcé

Mixed-mode ion-exchange (MIEX) sorbents



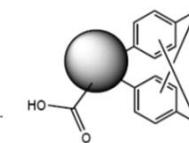
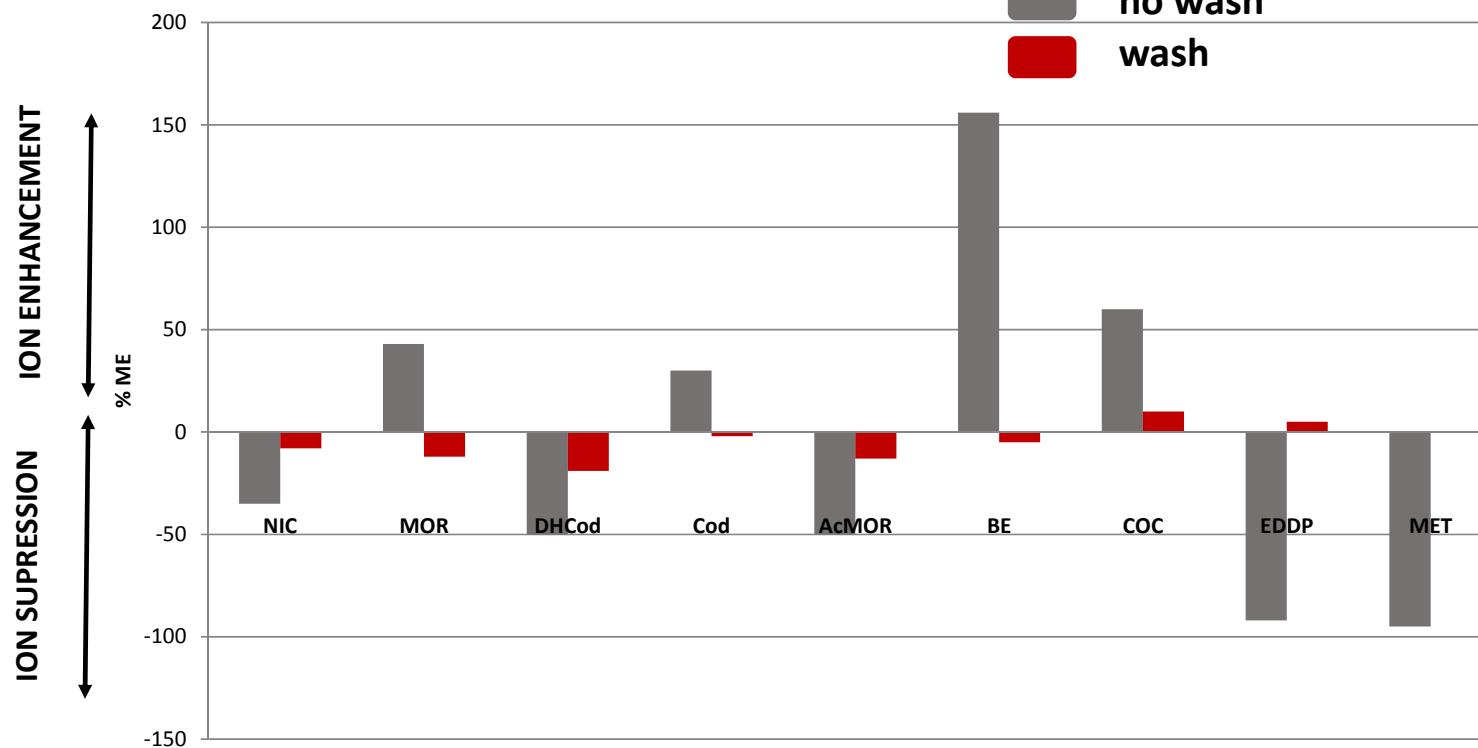
MIEX: protocol



MIEX: applications

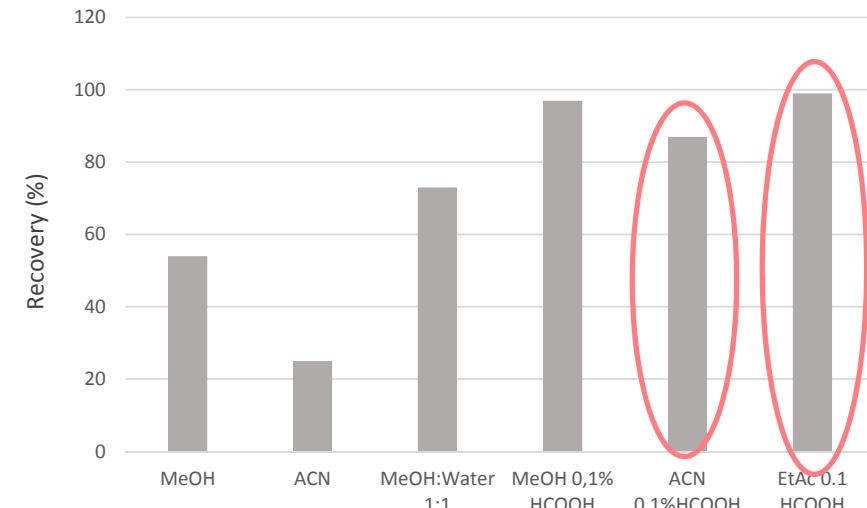
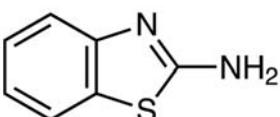
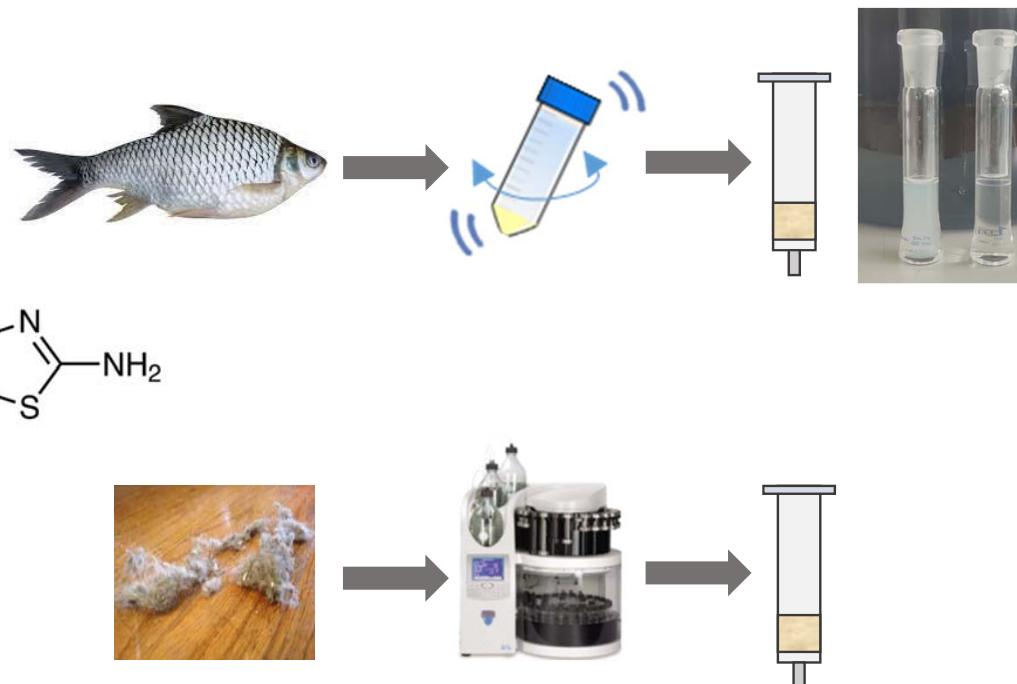


Complex samples



MIEX in clean-up step

SiO₂-G-SCX/SAX



A. Moral et al., Anal. Chim. Acta (2022) in preparation



Dual mixed-mode ion-exchange sorbents



Evaluation of the zwitterionic material

CONDITIONING	5 mL MeOH + 5 mL ultrapure water pH 6
LOADING	Sample adjusted at pH 6
WASH	1 mL of MeOH
ELUTION	5 mL 5% NH ₄ OH in MeOH

