



Mapping chemical complexity in lab and field OA using UCB GLOBES mass spectral library

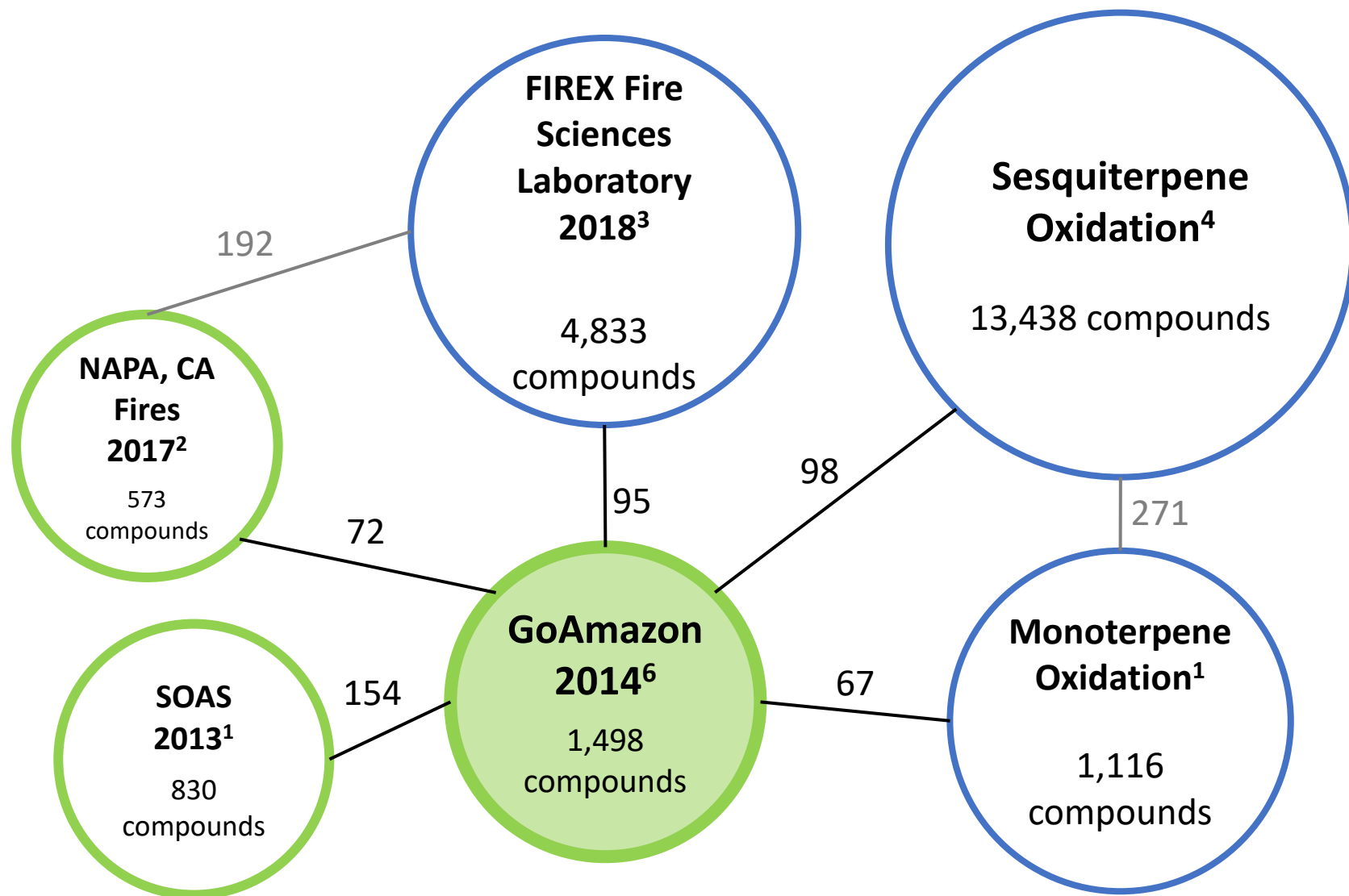
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Preliminary analyses:

- 1) Curating ~24,000 mass spectra; which are novel tracers?
- 2) More chemical diversity in lab-generated vs field-observed OA
- 3) Majority of observed compounds (e.g. 77% in GoAmazon) still unique and unidentified

UCB GLOBES EI mass spectral library (open-access):

<https://nature.berkeley.edu/ahg/resources/>



¹Zhang et al., PNAS, 2018; ²Liang et al., ACP, 2021; ³Jen et al., ACP, 2019; ⁴Yee et al., ACP, 2018;

⁶Barnes et al., in prep.