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Odorant clustering based on molecular parameter-feature extraction and imaging analysis of olfactory bulb odor maps

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Highlights

- Correlativity between odormaps (OM) and molecular parameters (MP) is discussed.
- Odorants are mapped in a 2D space by t-SNE method based on OMs or MPs.
- Odorants with similar structures are clustered together in t-SNE space.
- The relationship between OMs/MPs and functional groups are proposed by ANN models.
- Results reveal ELM has a great potential in functional groups identification.

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