Accepted Manuscript

Title: Olfactory drug effects approached from human-derived data

Author: Jörn Lötsch Claudia Knothe Catharina Lippmann Alfred Ultsch Thomas Hummel Carmen Walter

PII: S1359-6446(15)00259-7
DOI: http://dx.doi.org/doi:10.1016/j.drudis.2015.06.012
Reference: DRUDIS 1640

To appear in:

Received date: 25-3-2015
Revised date: 13-6-2015
Accepted date: 24-6-2015

Please cite this article as: L*ddoto*tsch, J., Knothe, C., Lippmann, C., Ultsch, A., Hummel, T., Walter, C.,Olfactory drug effects approached from human-derived data, *Drug Discovery Today* (2015), http://dx.doi.org/10.1016/j.drudis.2015.06.012

Highlights

- Recognition of the role olfaction in human life renders olfactory drug effects important.
- Evidence on olfactory effects includes 71 drugs; seven from controlled studies.
- Knowledge discovery in databases identified 147 targets for these drugs.
- Gene expression pattern in the human olfactory contains 83 known drug targets.
- Bioinformatics identified biologically plausible olfactory drug effects.