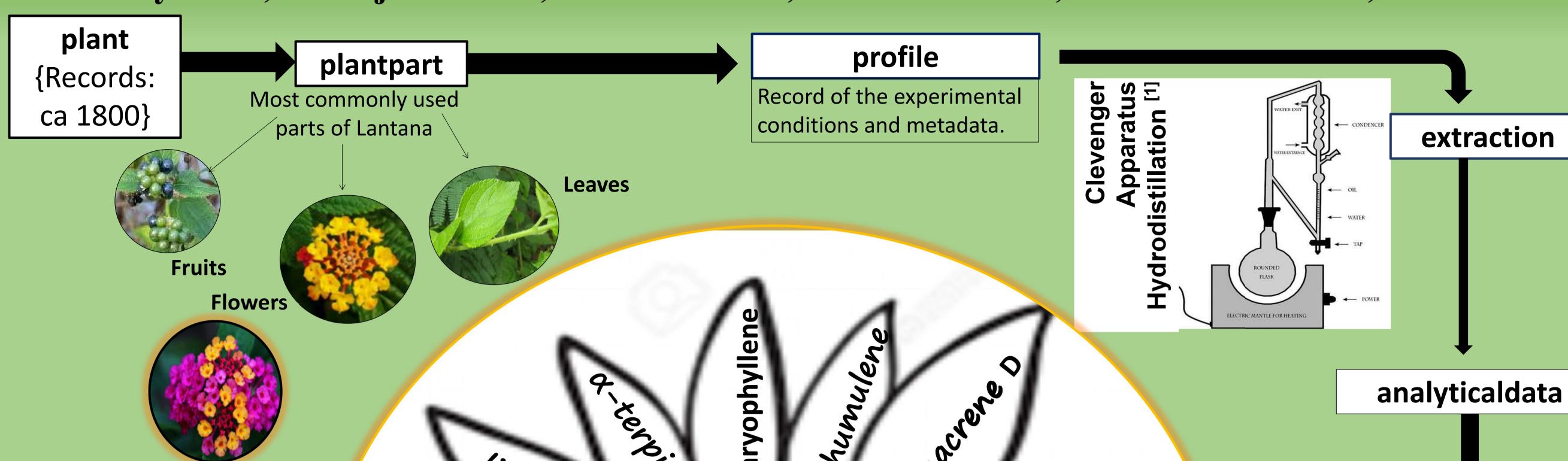
EssoilDB: A Semantic Knowledge base for Synthetic Phytochemistry

EssOilDB:

The EssOilDB (the ESSential OIL DataBase) is an organized collection of plant volatile emissions, containing experimental records of essential oil composition data, from published reports.

Peter Murray-Rust, Gitanjali Yadav, Vinita Lamba, Manish Kumar, Ambarish Kumar, Shruthi M



compound

{Records:

ca. 7157}

Importance:

Compound

δ-elemene

3-aurjunene

y-cadinene

5-cadinene α-cadinene

germacrene B

(E)-nerolidol

cubebol

3-caryophyllene

permacrene D

eugenol

Context based scientific research, through a multitude of queries on volatile profiles of native, invasive, normal or stressed plants, across taxonomic clades, geographical locations and several other biotic and abiotic influences.

1160

1393

1425

1434

1456

1515

1517

1553

1567

B-caryophyllene

location Madagascar Brazil Sweden Cameroon (Goteborg) India Cuba Iran Egypt Nigeria Ethiopia South China South Benin Algeria

Marginal (El=1-10)

Suitable (El=10-20)

Highly Suitable (EI>20)

Essential Oil Composition of Two Lantana Species from Mountain Forests of Pernambuco (Northeast of Brazil)

Leaf oil

28.6

14.7

José C. S. de Oliveira , Ilzenayde A. Neves , Claudio A. G. da Camara & Manfred O. E. Schwartz

To cite this article: José C. S. de Oliveira, Ilzenayde A. Neves, Claudio A. G. da Camara & Manfred O. E. Schwartz (2008) Essential Oil Composition of Two Lantana Species from Mountain Forests of Pernambuco (Northeast of Brazil), Journal of Essential Oil Research, 20:6, 530-532, DOI: 10.1080/10412905.2008.9700080 To link to this article: https://doi.org/10.1080/10412905.2008.9700080

Inferences:

Table I. Chemical constituents of Lantana camara leaf oi

γ-curcumene

Oxygenated sesquiterpenes

1376

1446

1529

1596

1598

profiledata

This is the chemical data

associated with a profile

germacrene D

Oxygenated monoterpenes

y-curcumene

Area (%)

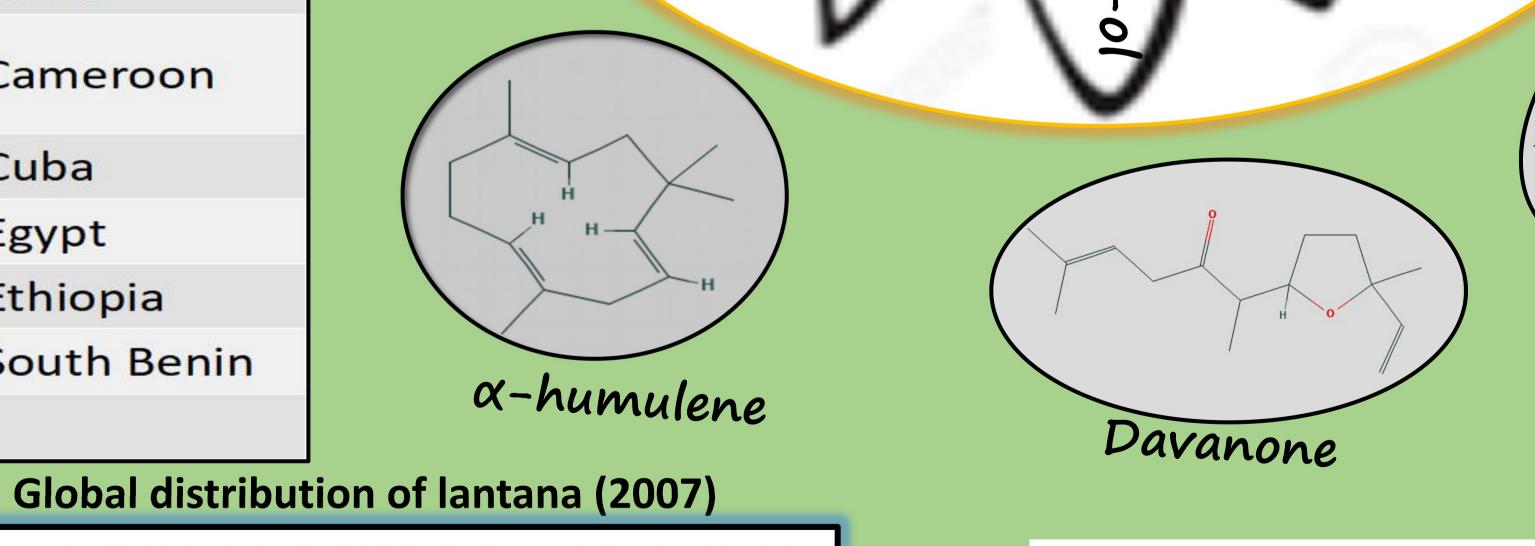
The most prominent essential oil produced by a particular species

¥-17-17-1

GC/MS Instrument – Agilent

Technologies [3]

- The part of the plant which yields maximum amount of the desired compound
- The location at which a particular species produes maximum amount of terpenes
- > Seasonal changes in the production of essential oils



Chemical Composition of the Leaf Oil of Lantana

To cite this article: Virendra S. Rana , D. Prasad & M. Amaro Blazquez (2005) Chemical Composition of the Leaf Oil of Lantana camara, Journal of Essential Oil Research, 17:2, 198-200, DOI: 10.1080/10412905.2005.9698874

davanone

 γ -curcumene

B-elemene

J. Cadinene

To link to this article: https://doi.org/10.1080/10412905.2005.9698874

Benefits:

LL4EXPORT

Lantana Essential Oil [4]

Potential preventive and

therapeutic agents in

❖ In aroma-therapy, for

transdermal delivery of

pharmacology.

medicines.

Conclusions: Creation of EssOilDB is an attempt to provide a systematic compilation of essential oil profiles along with the details of their sources for the benefit of not only scientific community but also for the layman, entrepreneurs and farmers in exploring volatiles and their properties. As evident from the benchmarking analysis presented here, EssOilDB is the first and only database that enables a rigorous scientific assessment of plant essential oils in context of their surroundings and in a comparative manner.

35	The state of the s		
	Winds of the second	25 S	
	and the same of th	The same of	
		Mark State	

Virendra S. Rana , D. Prasad & M. Amaro Blazquez

REFERENCES:

1. Ismaiel, Omnia & Abdelghani, Essam & Mousa, Heba & Eldahmy, Samih & Bayoumy, B.E.. (2016). Determination of Estragole in Pharmaceutical Science. 6. 144-150. 10.7324/JAPS.2016.601220. 2. Subhashni Taylor and Lalit Kumar, (2014). Impacts of climate change on invasive Lantana camara L. distribution in South Africa. African Journal of Environmental Science and Technology. Vol. 8(6), pp. 391-400, June 2014 DOI: 10.5897/AJEST2014.1705

α-phellandrene

B-pinene

linaloo

1,8-cineole

- 3. https://www.agilent.com/en/products/gas-chromatography-mass-spectrometry-gc-ms/gc-ms-instruments 4. http://www.all4export.com/index.php?route=product/product&product_id=411
- The outline of the flower was taken from http://clipartmag.com/images/sunflower-black-and-white-clipart-11.jpg . All the other images are taken from Wikimedia