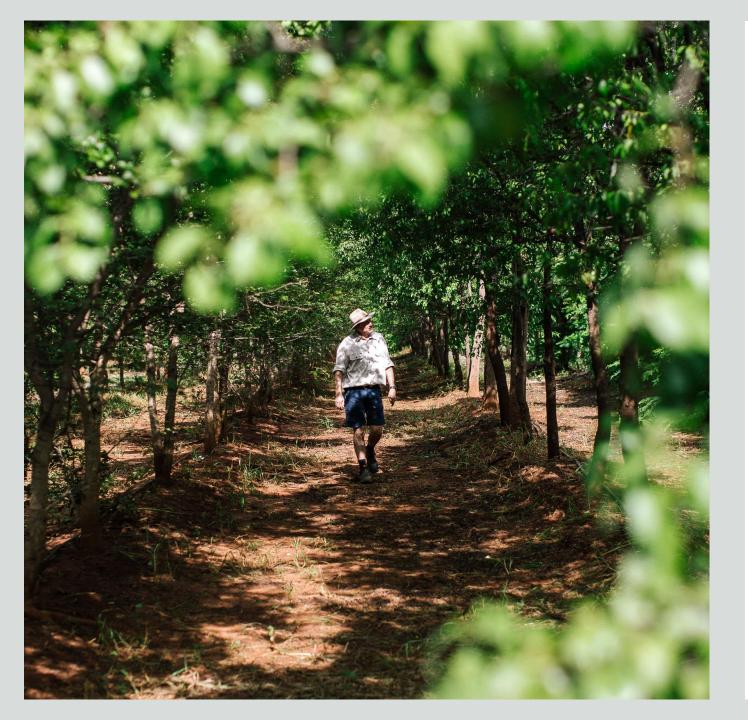
# Formulating with Woods





June 29-July 1, 2022

Miami Beach Convention Center Miami Beach, FL, USA





# Formulating with Woods

"Forests, the green lungs of our planet, perfume the air we breathe.

The trees, from their roots to their tops, contain their essential oils, their essences, their perfumes.

They are huge sources of inspiration for perfumers."

Pierre Bénard

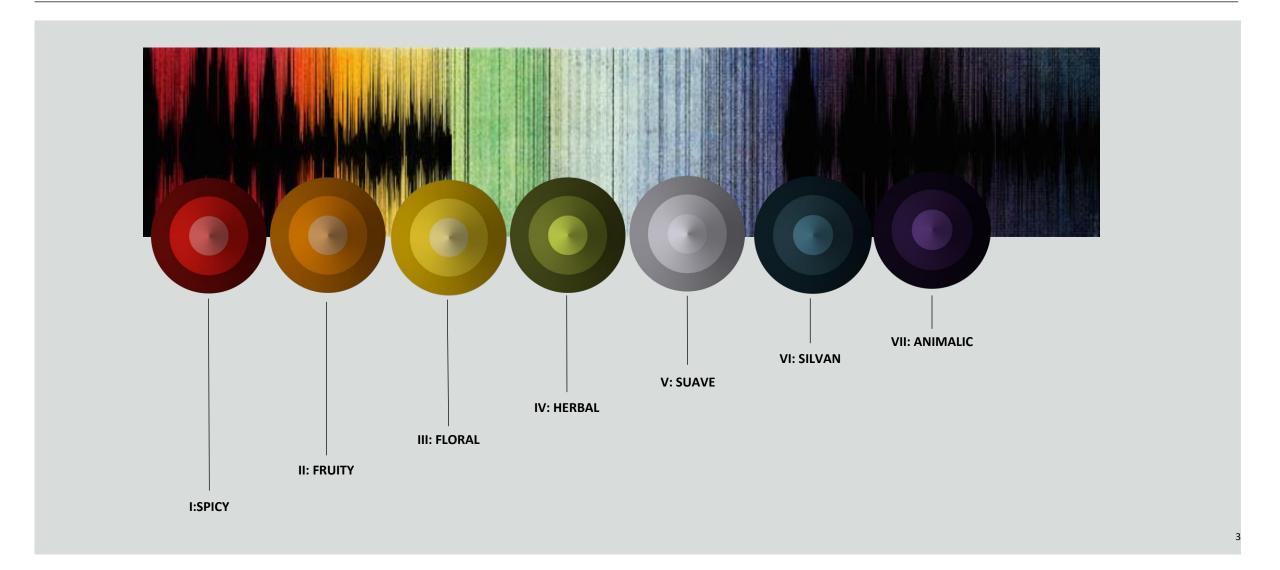






## SYSTEMATIC OF SCENTS

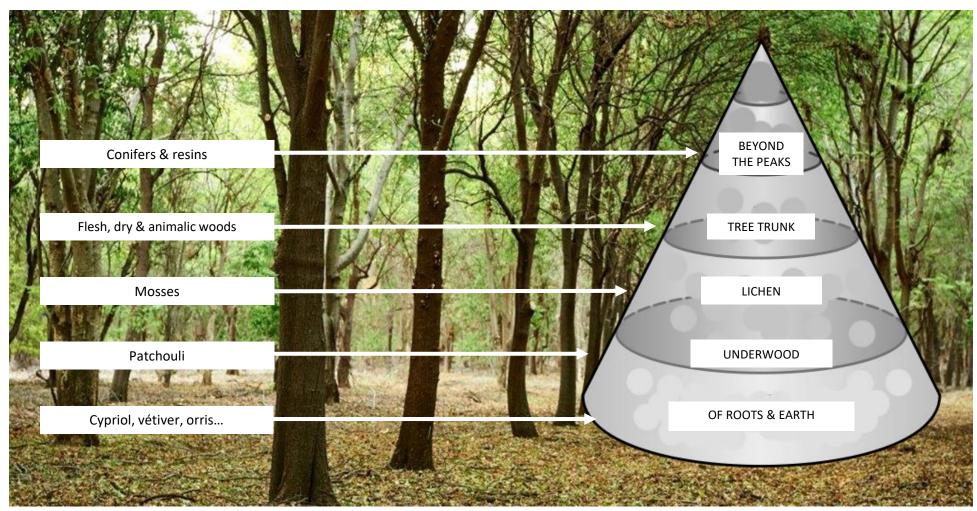
SEVEN OLFACTORY AREAS





## **OVERVIEW OF SILVAN**

#### WOODS & WOODY NOTES



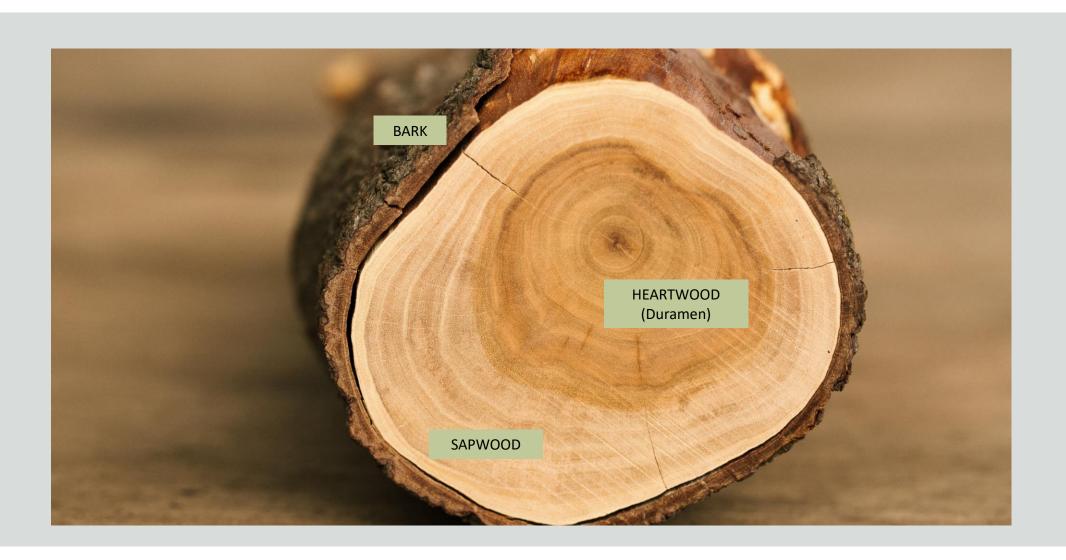








## TREE SPINE

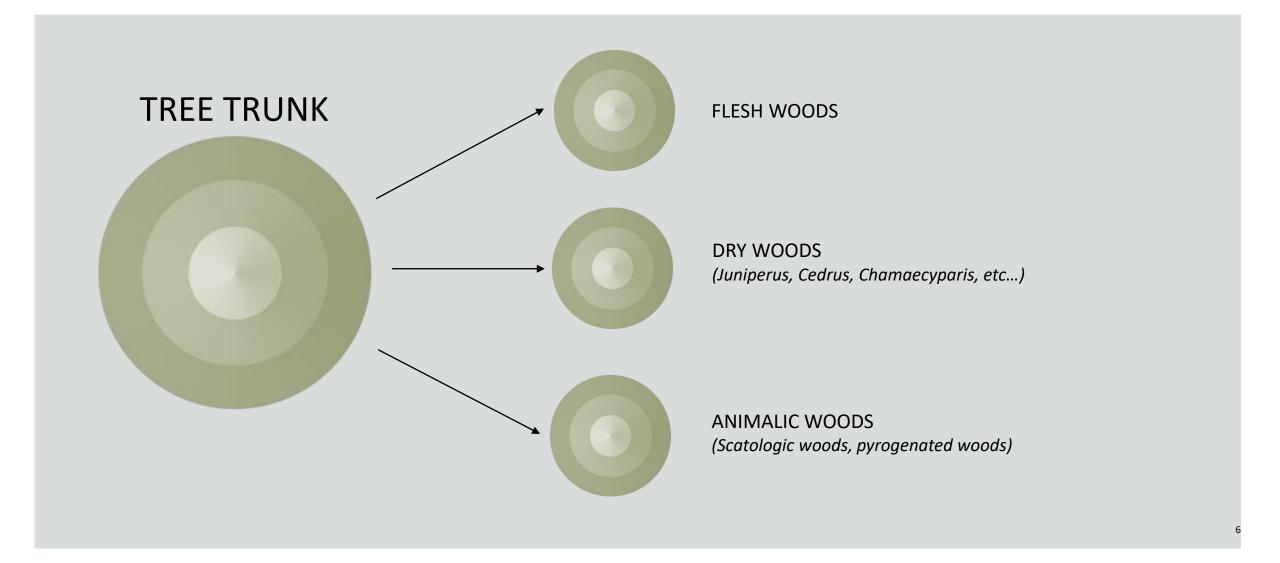


## TRUNK WOODS





#### LINEAR SCENTS







SKIN WOODS





## SANDALWOOD GENUS

SANTALUM (15 SPECIES)

**Santalum album** (Mysore sandalwood or white sandalwood).

**Santalum spicatum** (Australian sandalwood)

Santalum austrocaledonicum (Pacific sandalwood).

**Santalum lanceolatum** (whose HE contains lanceol).

Santalum yasi (from Fiji and Tonga).

**Santalum murrayanum** (Western Australia, called Bitter quandong).

Santalum acuminatum (Western Australia, called Sweet quandong).

Santalum macgregorii (Papua New Guinea).

**Santalum insulare** (French Polynesia).

...etc



#### **OLFACTION 1: SANTALUM SPICATUM E.O (DOUBLE DISTILLED)**







#### DIFFERENTIATION

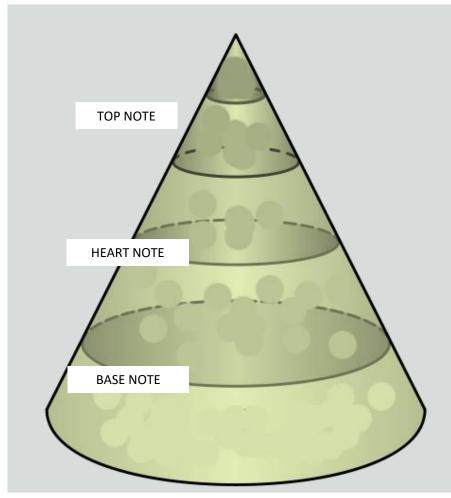
	AUSTRAL SANDALWOOD		INDIAN SANDALWOOD
Latin Name	Santalum austrocaledonicum	Santalum spicatum	Santalum album
Latin meaning	The term <i>austrocaledonicum</i> refers to New Caledonia.	Spicatum means "ear-shaped"	Album, in Latin "white", refers to the sapwood, pale green or white.
Origin	New Caledonia and Vanuatu.	Western Australia.	South India (Andhra Pradesh, Tamil Nadu, Karnataka) & Indonesia (Flores, Sumba, Timor).
Aspect	Tree up to 10 meters tall with gray bark and light green foliage.	Bush or small tree up to 6 meters high with grey- green foliage.	Tree 8 to 12 meters high, with evergreen oval leaves, of a brilliant green.
Main components	Alpha-Santalol, Béta-santalol, Alpha-trans-bergamotol,  Lancéol, Epi-bêta-santalol  Beta & Gamma – curcumene – 12 – Ol	Alpha-Santalol, Béta-santalol, Alpha-trans- bergamotol, <b>Nuciférals, Bêta-curcumèn-12-ol,</b> <b>Gamma-curcumène, Farnésol</b>	Alpha-Santalol, Béta-santalol, Alpha- <i>trans</i> -bergamotol, <i>Epi</i> -bêta-santalol
Olfactory notes	Woody and velvety appearance	More earthy and raw smell	Round, creamy and milky notes



#### **FIXATIVE**

IN THE WAKE OF SANDALWOOD

OLFACTION 2 : SANTALUM ALBUM E.O (MATURED)



In perfumery, fixation is a process that promotes the retention of the perfume for as long as possible.

A fixative is a compound used to equalize the vapor pressures, and therefore the volatilities of the raw materials that make up a perfume and thus increasing its tenacity and "sillage".







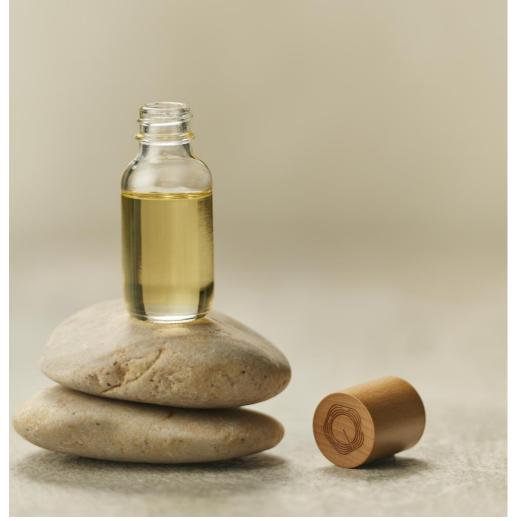
## DIAMOND SANDALWOOD

#### NOSEDIVE INTO INDIAN SANDALWOOD

Sandalwood E.O is a fixing material but also a fragrant material **like vetiver**, **labdanum or patchouli**.

In the **history of perfumery,** patchouli was used for its fixation even before its smell.

In fact, today, patchouli is in most perfume compositions.

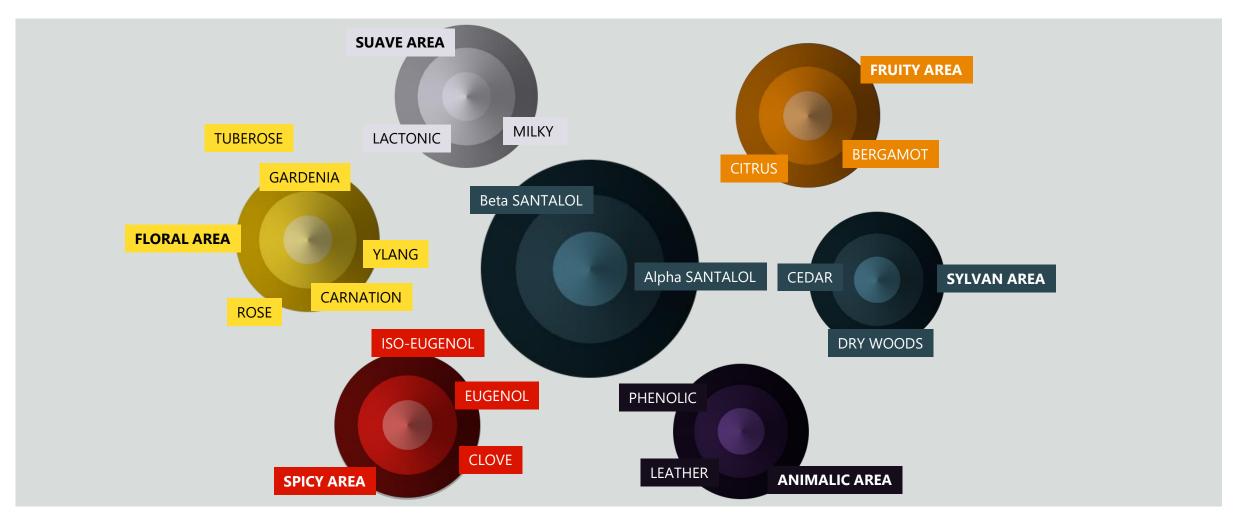






#### SANDALWOOD MULTIFACETS

#### TOWARDS DIFFERENT INSPIRATIONS







#### A WOODY NOTE

#### **DRY WOOD**

First, it's logical, that a tree smells of wood.

In sandalwood E.O we also notice a certain dryness.

These dry woody notes come from the molecules of alpha-santalene, alphasantalol and alpha-santalal.





DRY WOODS

Alpha-SANTALENE

Alpha-SANTALOL

## **SPICY SANDALWOOD**

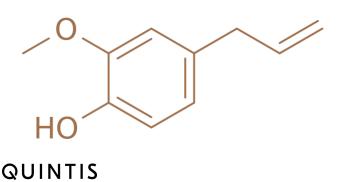


#### **PHENOLS**

The **presence of phenols** gives some **leathery and smoky** aspects.

**Eugenol** and its derivative **Iso-eugenol** bring a **warm spicy** note which it nice to introduce in floral accords like **ylang-ylang**, **wallflowers** and **especially carnation**.

This is why the essential oil of sandalwood is excellent to prolong their **spicy**, **narcotic and exotic character**.





#### LEATHERY SANDALWOOD



#### **CORDOBAN LEATHER**

The phenol **6-methoxy-eugenol** brings notes of fire.

These **pyrogenic notes** are found in essential oils **obtained by dry distillation**, like birch or cade, used in the so-called *"Cuir de Russie"* accord.

But, the olfactory **association of sandalwood and leather** dates back to the Arab presence in Spain during the middle ages % where the famous **leather of Cordoba** was perfumed with sandalwood.

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#### A FLORAL WEDDING



#### ARCHETYPE ACCORD

Sandalwood enhances floral accords!

I find sandalwood essential oil is reminiscent of the scent of the skin as well as the silky petals of a rose.

The accord **rose-sandalwood** has become an **archetype accord** reminiscent of the attars of traditional Indian culture.

Attars are made by **co-distillation of flowers and spices with essential oil of sandalwood.** 

A kind of « enfleurage »!







#### FLOWERS OF SANDALWOOD

#### **VIOLET FLOWERS**

What is less known is that sandalwood has strong smelling ionone-like molecules, such as the *Nor-alpha Santalenone* and *Acetyl-dihydro-albene* molecules.

It connects to such flower-ionones as **boronia and osmanthus**, products which contain natural ionones.

Nor-Alpha SANTALENONE

Acetyl-Dihydro ALBENE

**VIOLET FLOWERS** 









## **POWDERY FLOWERS**

#### FLAKE FLOWERS

Its *para-methyl-acetophenone* molecule translates the flaky aspect of **powdery** and aniseed flowers like mimosa, hawthorn, lilac or black locust.

Para-Methyl-ACETOPHENONE







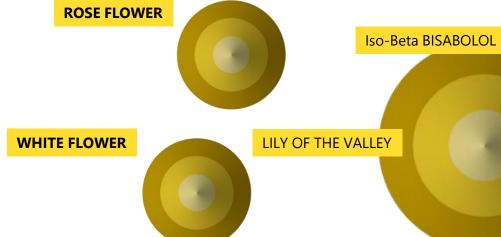




#### FLORAL WOOD

#### WHITE & ROSE FLOWER ACCORDS

The *Iso-beta bisabolol* molecule has been isolated from sandalwood essential oils in Eastern India and Western Australia and only the four stereoisomeric forms (6R, 7R) have a strong, pleasant floral note towards lily of the valley.







## OSMOART PARFUMS COULEURS & SOMS



## MAGIC TREE

#### **GARDEN OF HESPERIDES**

Although very few terpenes are needed to have a fresh citrus effect, **sandalwood E.O** accompanies them wonderfully.

In certain sandalwood essential oils, we find notes of **dried grapefruit skin**, like the **effect of** *nootkatone* in vetiver.





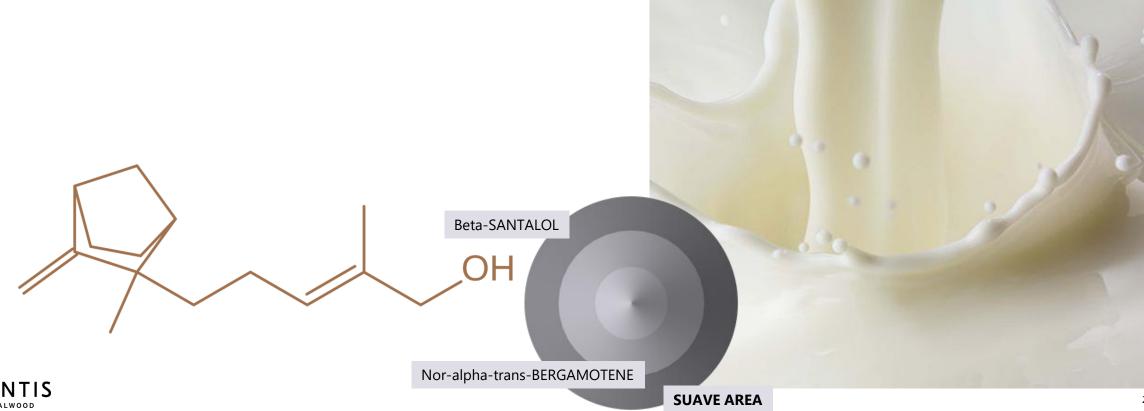
## MILKY EFFECT



**OLFACTION 3: SANTALUM ALBUM E.O (MILKY) SUAVE NOTES** 

But, the perfumer's holy grail is this naturally **indomitable milky note!** 

Mainly due to the content of **beta santalol** also to **Nor-alpha-trans-bergamotene.** 



## MILKY ACCORDS



#### LACTONIC FLOWERS

This milky note only found in white sandalwood is very interesting with white flowers that have lactonic character, such as gardenia and tuberose, forever, my favorite flower!





