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The top-growing wine varietal in New Zealand is Sauvignon Blanc with 63% of planted hectares in 2020. With flavour and aroma profiles ranging from grassy and capsicum to stone fruit and tropical passionfruit, this varietal demonstrates a wide range of regional and sub-regional styles influenced by climate, soil type, and even microbes.

Here's a look at some compound classes in Sauvignon Blanc that we know about and that Bragato Research Institute considers important in our wines:

**METHOXYPYRAZINES**

IBMP (isobutylmethoxypyrazine) is the main aroma compound from this family found in New Zealand Sauvignon Blanc. Its aroma is described as green pepper or capsicum.

**C6-ALDEHYDES**

The freshly cut grass aromas come primarily from hexenal, trans-2-hexenal and cis-3-hexenal, which during fermentation get converted to the corresponding alcohols. cis-3-Hexenal has been described as almost sweet grassy or green apple.

**ACIDS**

New Zealand’s cool, maritime climate allows for Sauvignon Blanc grapes to ripen slowly, developing a natural acid balance. Acidity represents crispness and freshness, due to the high content of tartaric, malic and citric acids in the grapes.

**POLYPHENOLIC COMPOUNDS**

Phenolic compounds, such as catechin, caffeic acid and quercetin, are commonly found in Sauvignon Blanc wine, where they are seen to either specifically suppress - or accentuate - certain aromas. The presence of 3SH, for example, is accentuated with higher levels of caffeic acid.

**VARIETAL THIOLS**

4MSP (4-sulfanyl-4-methylpentan-2-one), 3SHA (3-sulfanyl hexyl acetate) and 3SH (3-sulfanyl hexanol) are found in high concentrations in New Zealand Sauvignon Blanc and play a key role in its distinctiveness. Together, they comprise the bouquet of tropical, grapefruit, and sweet sweaty passionfruit characteristics we call varietal thiols.

4MSP – described as box tree or passion fruit.

3SH – described as grapefruit, passion fruit, gooseberry or guava.

3SHA – described as passion fruit or grapefruit.

**LEGEND**

Compounds are expressed in different stages of the winemaking process: