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Quantitative genetic analysis of the metabolism of key fermentation aroma by wine yeast

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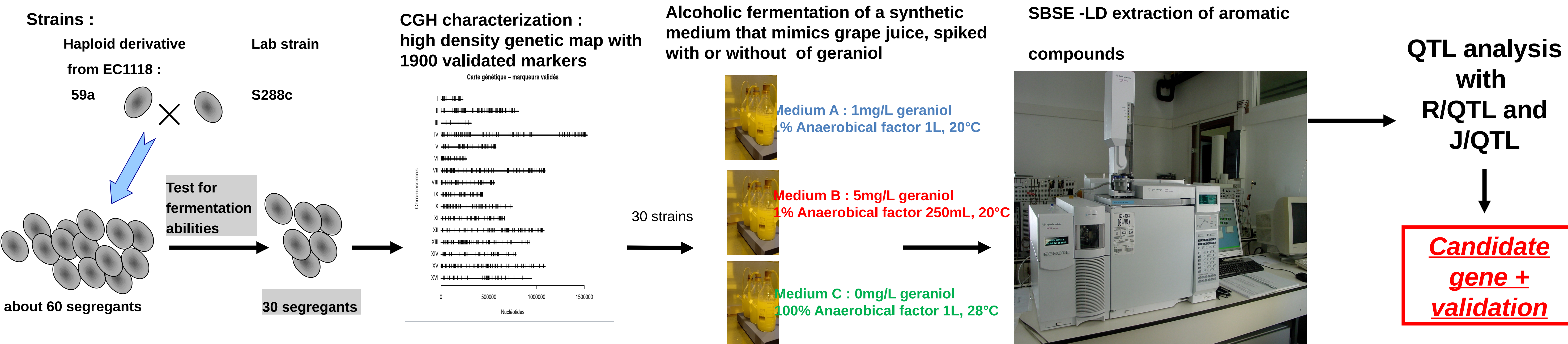
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Introduction

Wine aromatic profile is the combination of vine aromatic compounds that can be metabolized by yeast and of compounds produced by yeast during alcoholic fermentation. The variability of the influence of wine yeast strains on wine aroma is well known from wine makers who have selected numerous strains produced nowadays at an industrial scale. Even though several genes involved in the production of aroma have already been described, little is known about the genetic basis of the variability of the metabolism of these compounds. In order to answer this issue, we compared the aroma production and the geraniol metabolism during alcoholic fermentation using a progeny of 30 strains. This progeny was obtained from a cross between *S. cerevisiae* strains S288C and 59A, and was previously mapped using oligonucleotide microarrays.

Methods



Results/conclusion

