

THE COAT COLOUR OF THE BRACCO ITALIANO

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The main colours of a Bracco Italiano are accordance the standard:

- White (bianco);
- Chestnut (marrone);
- Orange (arancio).

These colours varied in markings, pale colour, mottled etc. See FCI-Standard Nr 202.

The genes responsible for the coat colours, in the Bracco Italiano, are a part of the so called **E series**.

The locus **E**:

E produced the chestnut colour and **e** produced the orange colour of the Bracco Italiano.

The dominant of the two colours is the chestnut colour (**E**) and the orange (**e**) is the recessive colour, one what is masked or concealed.

That means when you see a chestnut Bracco Italiano, the phenotype of the colour is chestnut, but the possibility of a genotype Bracco Italiano are:

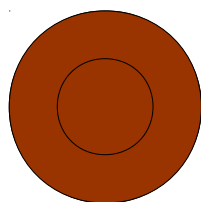


Figure 1, Genotype **EE** and phenotype **chestnut**.

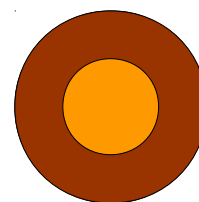


Figure 2, Genotype **Ee** and phenotype **chestnut**.

When you see an orange Bracco Italiano phenotype is equal genotype **ee**:

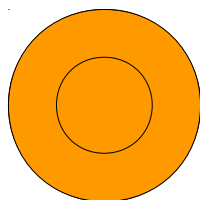


Figure 3, Genotype **ee** and phenotype **orange**.

The follow combinations *), by breeding with the Bracco Italiano, are possible:

1. The parents are genotype chestnut, **EE x EE**;
2. The parents are genotype orange, **ee x ee**;
3. One of the parents is genotype chestnut and the other is genotype orange, **EE x ee**;
4. One of the parents is genotype chestnut/orange and the other is genotype orange, **Ee x ee** ;
5. One of the parents is genotype chestnut and the other is genotype chestnut/orange, **EE x Ee**
6. The parents are genotype chestnut/orange, **Ee x Ee**;

*) Colours varied in markings, pale colour, mottled etc. are not subject of this paper!

1. The parents are genotype chestnut, EE x EE.

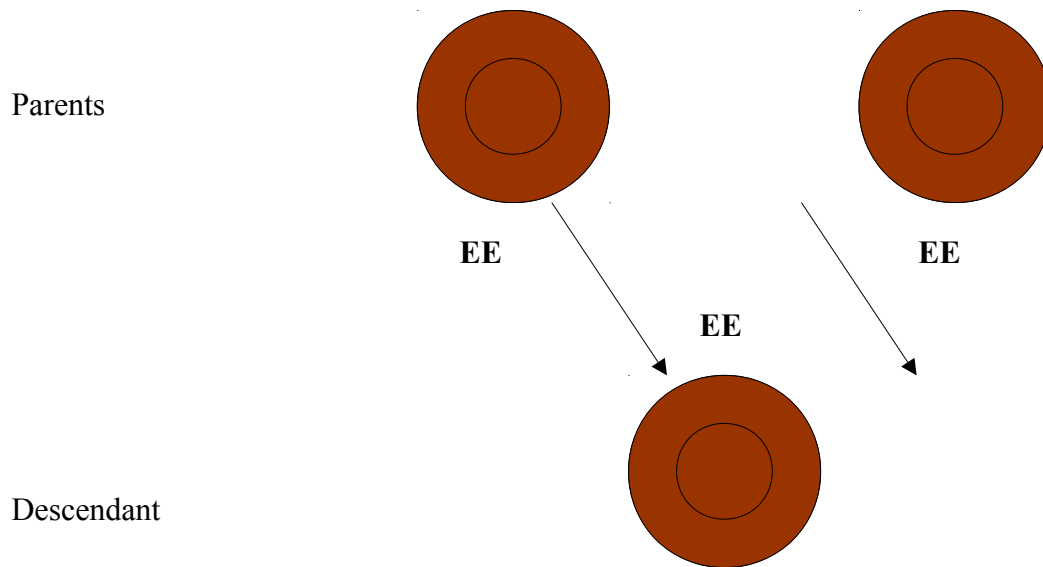


Figure 4, EE x EE

This combination gives 100% genotype **EE** and 100% phenotype **chestnut** descendants.

2. The parents are genotype orange, ee x ee.

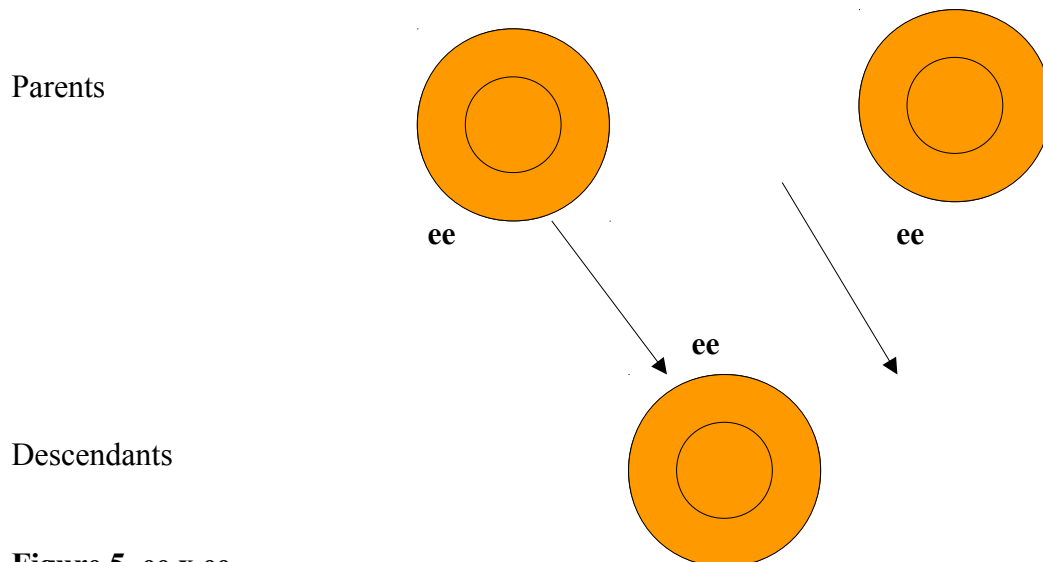


Figure 5, ee x ee

This combination gives 100% genotype **ee** and 100% phenotype **orange** descendants.

3. One of the parents is genotype chestnut and the other is genotype orange, EE x ee.

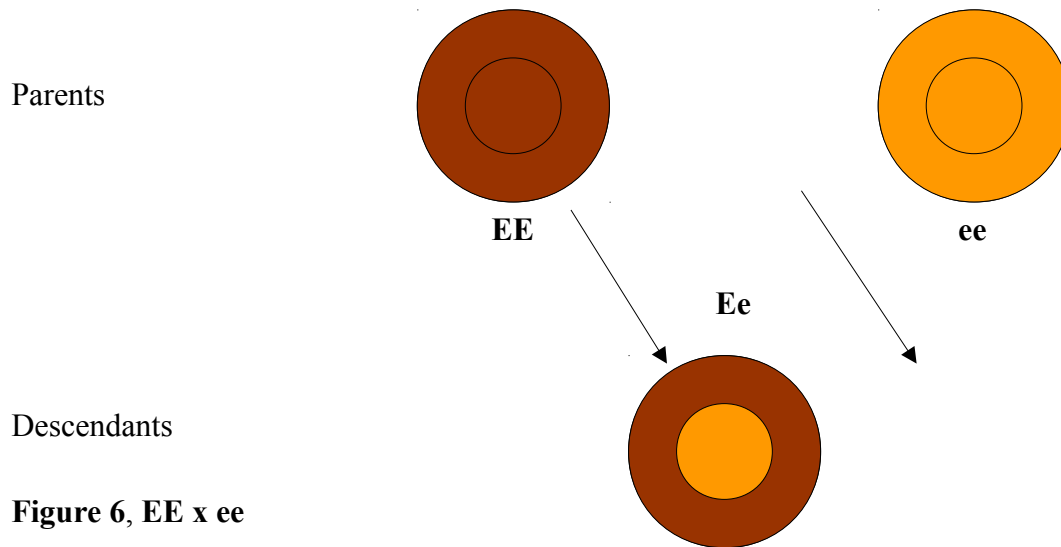


Figure 6, EE x ee

This combination gives 100% genotype **Ee** and 100% phenotype **chestnut** descendants.

4. One of the parents is genotype chestnut/orange and the other is genotype orange, Ee x ee.

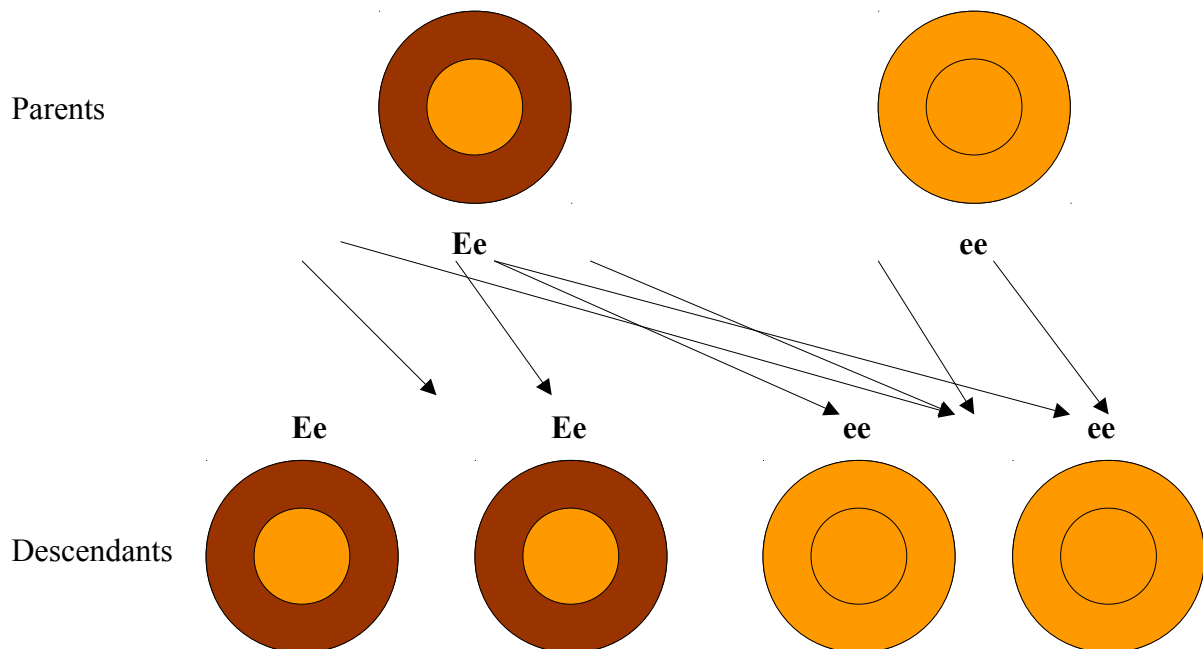


Figure 7, Ee x ee

This combination gives 50% genotype **Ee** and 50% genotype **ee**. In colour this combination gives you 50% phenotype **chestnut** descendants and 50% phenotype **orange** descendants.

5. One of the parents is genotype chestnut and the other is genotype chestnut/orange, EE x Ee.

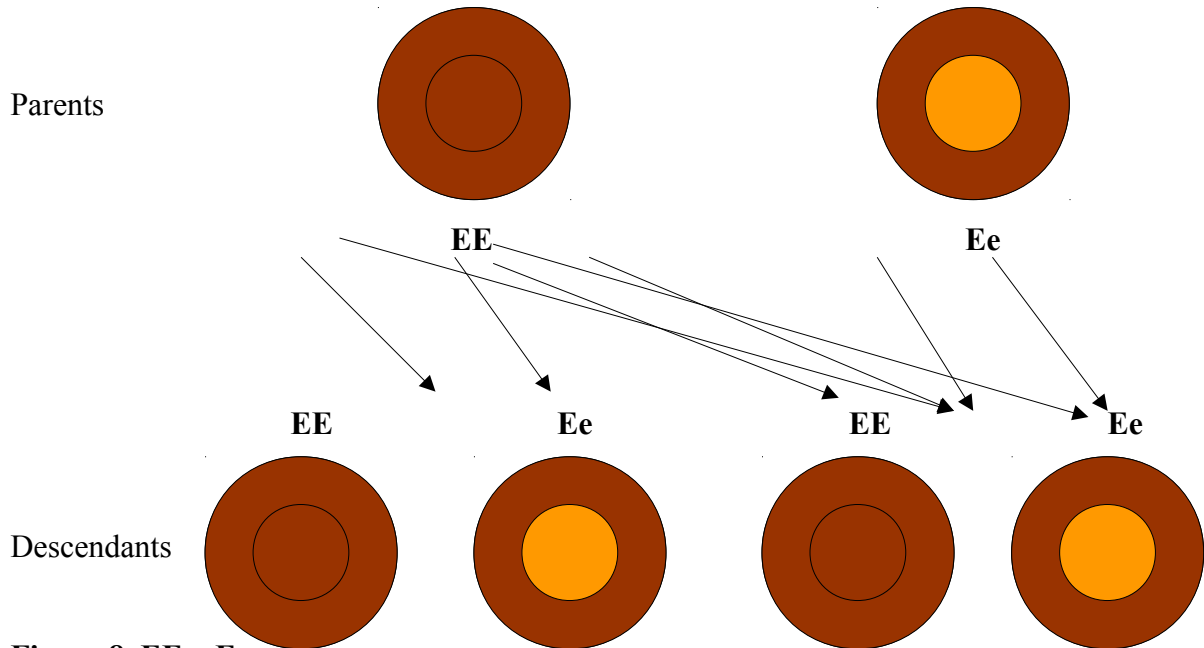


Figure 8, EE x Ee

This combination gives 50% genotype **EE** and 50% genotype **Ee**. In colour this combination gives you 100% phenotype **chestnut** descendants.

6. The parents are genotype chestnut/orange, Ee x Ee.

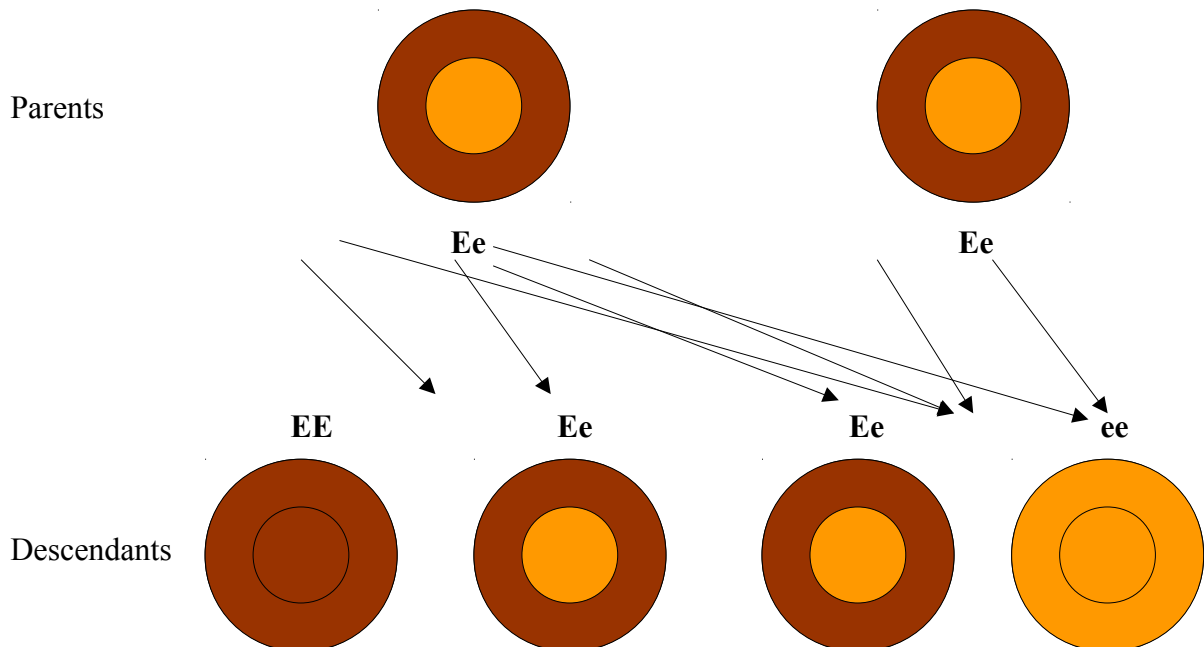
























Figure 9, Ee x Ee

This combination gives 25% genotype **EE** and 50% genotype **Ee** and 25% **ee**. In colour this combination gives you 75% phenotype **chestnut** and 25% **orange** descendants.

Summary *)

Parents				Descendants			
Genotype		Colour		Genotype	%	Colour	%
Parent	Parent	Parent	Parent				
EE	EE			EE	100%		100%
ee	ee			ee	100%		100%
EE	ee			Ee	100%		100%
Ee	ee			Ee	50%		50%
				ee	50%		50%
EE	Ee			EE	50%		50%
				Ee	50%		50%
Ee	Ee			EE	25%		75%
				Ee	50%		
				ee	25%		25%

- *) 1- Outer circle colour gives the colour of the dog (phenotype);
 2- % distribution of the colours by statistical sufficient numbers of breeding.