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Research Models
and Services

Hybrid Mice

CB6F1 (BALB/c x C57BL/6)F1

Origin

CB6F1/OlaHsd

This F1 hybrid is a cross between BALB/cOlaHsd females and C57BL/6JOlaHsd males.

CB6F1/Hsd

This F1 hybrid is a cross between BALB/cAnNHsd females and C57BL/6NHsd males.

Characteristics

The F1 hybrid of two inbred strains can be a useful animal for many purposes. It is genetically uniform and heterozygous for all the genes for which the two parental strains differ. F1 animals are easy to produce (hybrid vigor) and are less susceptible to environmental influences than the parent inbred strain. F1 mice will accept transplants of tissues from mice of either parental strain. The CB6F1 hybrid is used in areas of radiation research, behavioral research, drugs and hormones. Immune parameters and circadian fluctuation is described by Kolaczowska *et al* (2000).

Genetics

Coat color genes - *A/a, b/B, c/C* : agouti.

Histocompatibility - *H-2^{b/d}*

The CB6F1 will be heterozygous for all the loci where the BALB/c and C57BL/6 differ and homozygous for all the loci where both parental strains are the same.

The potential influence of circadian changes and laboratory routine on some immune parameters has been described by Kolaczowska *et al* (2000).

References

1. Kolaczowska W, Chadzinska M, Seljelid R and Plytycz B (2000) Strain differences in some immune parameters can be obscured by circadian variations and laboratory routines: studies of male C57BL/6J, BALB/c and CB6F1 mice. *Lab. Anim.* 35, 91-100.
2. Li J, Scott P and Farrell JP (1996) In vivo alterations in cytokine production following interleukin-12 (IL-12) and anti-IL-4 antibody treatment of CB6F1 mice with chronic cutaneous leishmaniasis. *Infection and Immunity* 62, 5248-5254.
3. Miller RA, Chrisp C and Galecki A (1997) CD4 memory T cell levels predict life span in genetically heterogeneous mice. *FASEB* 11, 775-783.

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