

Modif cat ons to husbandry or experimental procedures so as to minimize pain and distress and enhance animal well-being are referred to as ref nement alternat ves. Evidence suggests pain and distress can cause alterat ons in an animal's behavior, physiology and immunology. Such changes can lead to variat on in experimental results which diminish the reliability and repeatability of studies. Ref nement alternat ves not only ben

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