CHAPTER 4

AIM AND OBJECTIVES
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Aim of present investigation was to study the anti-proliferative activity of three species of wheat grass with the following objectives:

a. To evaluate percentage presence of Abscisic Acid and Laetrile in *Triticum dicoccum*, *Triticum durum* and *Triticum aestivum* (wheat grass species).

b. To estimate anti proliferative activity of *Triticum dicoccum*, *Triticum durum* and *Triticum aestivum* by microculture tetrazolium (MTT) assay (in-vitro).

c. To study clinical efficacy of wheat grass tablets as supportive treatment in leukemia patients (in-vivo). The clinical efficacy was assessed:
   i. By Side Effect Index that included headache, nausea, vomiting, bone pain, fever, skin rash, hair loss, mouth ulceration, anorexia, loss of weight and overall life quality as determined from patient and assessment by a physician.
   ii. By changes in Complete Blood Count, Alkaline Phosphatase, SGOT, SGPT and Blood Urea Nitrogen (BUN) along with supportive treatment in patients of leukemia.