Document Type Document Title	: Thesis : <u>STUDY THE GENETIC EFECTS OF RHAZYA STRICTA LEAVES EXTRACT IN</u> <u>ROOT TIP MERISTEMS OF VICIA FABA</u> در اسة التأثير ات الور اثية لمستخلص أور اق نبات الحر مل في الخلايا الإنشائية لقمة جذور نبات الفول البلدي
Document Language	: Arabic
Abstract	: Higher plants used extensively in traditional medicines are increasingly being screened for their role in modulating the activity of environmental genotoxicants . Rhyza stricta Decne is small glaborous erect shrub with a smooth central stem and dense semi-erect branches which grows commonly in the Arabian Gulf region and the Indian subcontinent . This study has con-cerened ware tok care of the answer of an inportant cooestaon waths is das the leaves of R.stricta water extract of genetic effect or no ? and if there is a genetic effect is it postive or negative or in anather word the leaves of R.stricta water extract cause a decrease or an increase in the activity of environmental genotoxicants. To determine the effect of R.stricta , plant extracts from fresh leaves were prepared using liquid nitrogen . The seedling of vicia faba will be treated with R.stricta extracts at different doses (5, 10, 20, 30, 50, 150, 200g/l) and different intervals. The result of the last seven treatments can be summarized as follows: 1- In all treatments have lead to the increase of mutation frequency, when compared with the control. 3- In all treatments have lead to a decrease of mutation mitotic stages, when compared with the control. 5- All treatments have caused different kinds of mitotic ahonrmalities and chromosomal aberrations, which were generally as follow: change percentage of mitotic phases, C-Metaphase, Stickiness, Break and Fragments, Bridges, Tripolars, Polyploidy, Rings, Binucleates, and disturbancee. In single treatment with heavy metal the highest percentage of aberration (41.87%) appeared after the treatments (76,91%), and little frequent kind of these aberrations was Break, fragments (76,91%), and little frequent kind of these aberrations was Polyploidy(0.6(
Supervisor Publishing Year	د محمد بن حامد زيني متوكل : 2007 :