

## Contents

	Page
<b>Introduction</b>	1
<b>Review of Literature</b>	3
<b>Materials and Methods</b>	25
<b>Results and Discussion</b>	38
Interspecific crosses	38
I Studied characters	41
I.1- Plant height	41
I.2- Number of branches/plant	45
I.3- Number of leaves/plant	47
I.4- Leaf area	48
I.5- Earliness of flowering	50
I.6- Sex ratio	52
I.7- Number of fruits/plant	54
I.8- Fruit set percentage	55
I.9- Fruit length	57
I.10- Fruit weight	58
I.11- Yield/plant	59
I.12- Resistance to powdery mildew disease	59
II Pollen grains viability	61
III Seeds development	62
IV Chemical constituents	68
V Embryo culture	77
V.1- Immature embryos	78
V.2- Mature embryos	91
VI Acclimatization	97
VII Estrase isozyme detection	100
- <b>Summary</b>	102
- <b>References</b>	111
- <b>Arabic summary</b>	