شبكة المعلومات الجامعية

بسم الله الرحمن الرحيم

Ain Shams University Information Network

جامعة عين شمس

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شبكة المعلومات الجامعية

# شبكة المعلومـــــات الجامعية

# التوثيق الالكتروني والميكروفيلم

شبكة المعلومات الجامعية

# جامعة عين شمس

## التوثيق الالكتروني والميكروفيلم

## قَسَم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد اعدت دون آية تغيرات

## يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15 – 20 مئوية ورطوبة نسبية من 20-40 %

**To be kept away from dust in dry cool place of**
**15 – 25c and relative humidity 20-40 %**

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# بعض الـوثـــائق

# الأصـلية تـالـفـــة

شبكة المعلومات الجامعية

# بالرسالة صفحات

# لم ترد بالأصـــل

# GENETIC STUDIES ON THE MOLECULAR BIOLOGY BASES OF SALINITY STRESS ON BARLEY (*Hordeum vulgare* L.)

By

**Magdy Hamed Ahmed Bendary**
B. Sc. Agriculture (Genetics), Ain Shams Univ., 1988

A thesis submitted in partial fulfillment

of

The requirements for the degree of

**Master of Science**

in

Agricultural Science

(Genetics)

Genetics Department

Faculty of Agriculture

Ain Shams University

2000

**Approval Sheet**

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Date of Examination: 29 / 6 / 2000

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# LIST OF ABRRIVIATIONS

| | |
|---|---|
| AFLP | : amplified fragment length polymorphism |
| bp | : base pair |
| BSA | : bulked segregant analysis |
| CC89 | : composed cross 89 |
| DM | : downy mildew |
| kDa | : kilodalton |
| MAS | : marker-assisted selection |
| NMR | : nuclear magnetic resonance |
| OA | : osmotic adjustment |
| PCR | : polymerase chain reaction |
| PEG | : polyethylene glycol |
| QTLs | : quantitative trait loci |
| RAPD | : random amplified polymorphic DNA |
| RFLP | : restriction fragment length polymorphism |
| RILs | : recombinant inbred lines |
| SDS-Protein | : sodium dodecyl sulphate-protein |
| TBA | : trait-based marker analysis |
| TE | : Tris- EDTA |
| ToMV | : tomato mosaic virus |

## LIST OF FIGURES