ARD OF SECONDARY EDUCATION, MADHYA PRADESH

BHOPAL

HIGHER SECONDARY SCHOOL CERTIFICATE EXAMINATION

TWO YEAR INTEGRATED COURSE

S. N0094266

MARK-SHEET

BOLL NO.	DIVH.	DISTE	CENTER	SCHOOL	DATE OF BURTH
018777	1	3	142	005	05.06.57.

CANDIDATE'S NAME, FATHER'S NAME, SURNAME

KUM REKHA RAMJI DAS MAHOR

SUBJECTS	•	MAX. MARKS	MINL PASS MARKS	TOTAL	PRACT. MARKS	TOTAL MARKS SECURED
ENGLISH-	(Special)	150	50	095		095
HINDI	(General)	050	15	027		027
PHYSICS		200	66	077	045	122
CHEMISTRY		200	66	093	049	142
BIOLOGY		200	66	084	040	124
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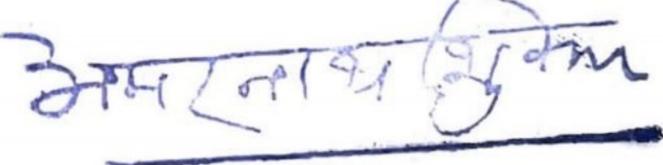
ADDITIONAL SUBJECT(S) OF AMY.

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It is cortified that the candidate has obtained desired proficiency in the subjects of internal Examination i. e. Social Studies/General Science and Craft. (for Regular Candidates only)

पद्मा बहुहरेशीय कन्या उदा माध्य. विचालक

ळक्कर, ग्वाधिसर । सध्य - जवेखा



For Secretary, SECONDARY EDUCATION, MADHYA PRADESH, BHOPAL.

BOARD OF SECONDARY EDUCATION, MADHYA PRADESH

s. No. 025606



TWO YEAR
INTEGRATED COURSE

CERTIFICATE

HIGHER SECONDARY SCHOOL CERTIFICATE EXAMINATION 1973

THIS IS TO CERTIFY THAT THE CANDIDATE, WHOSE PARTICULARS ARE GIVEN BELOW HAS PASSED THE ABOVE MENTIONED EXAMINATION HELD IN THE MONTH OF MARCH 1973

ROLL NO.	DIVISION	DISTRICT	CENTRE	SCHOOL
018777	1	DARY ECU	142	005
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CANDIDATE'S NAME IN FULL

KUM REKHA RAMJI DAS MAHOR

(NAME, FATHER'S NAME & SURNAME)

05.06.1957 ****

FIFTH JUNE

DATE OF BIRTH

NINETEEN HUNDRED AND FIFTY

SEVEN

DIVISION PLACED IN

FIRST

THE SUBJECTS IN WHICH THE CANDIDATE WAS EXAMINED WERE :
('D'_AGAINST THE SUBJECT INDICATES THE DISTINCTION IN IT)

ENGLISH

(SPECIAL)

HINDI

(GENERAL)

PHYSICS

CHEMISTRY

BIOLOGY

THE CANDIDATE HAS ATTENDED PROFICIENCY IN ELE. MATHEMATICS, GENERAL SCIENCE / SOCIAL STUDIES AND CRAFT. (FOR REGULAR CANDIDATES ONLY)

BHOPAL 8th JUNE 1973

Tremospay,

SEAL OF THE

PADMA VIDYALAYA"

Cont Minit: Girls Higher Secondary School

LASHKAR GWALIOR (M.P.

ABBREVIATION
PR—PRIVATE CANDIDATE

SECRETARY

BOARD OF SECONDARY EDUCATION, MADHYA PRADESH, BHOPAL

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JIWAJI UNIVERSITY, GWALIOR

Statement of marks for the examination of -

B.SC. FINAL 3 Y.D.C.

ROLL NO. 655 NAME KUMARI REKHA MAHOR

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The asterisk adjacent to marks denotes failure (*).

The alphabet "C" adjacent to marks denotes carry forward

CANDIDATE COPY

Dy. Registrar (Exams.)



JIWAJI UNIVERSITY, GWALIOR

Statement of marks for the examination of

M.SC. FINAL BOTANY

APRIL 1978

ROLL No. 194 NAME KU. REKHA MAHOR

JS-73-00718

RAMJI DAS

GOVERNMENT SCIENCE COLLEGE, GWALIOR.

17-06-78 REGULAR

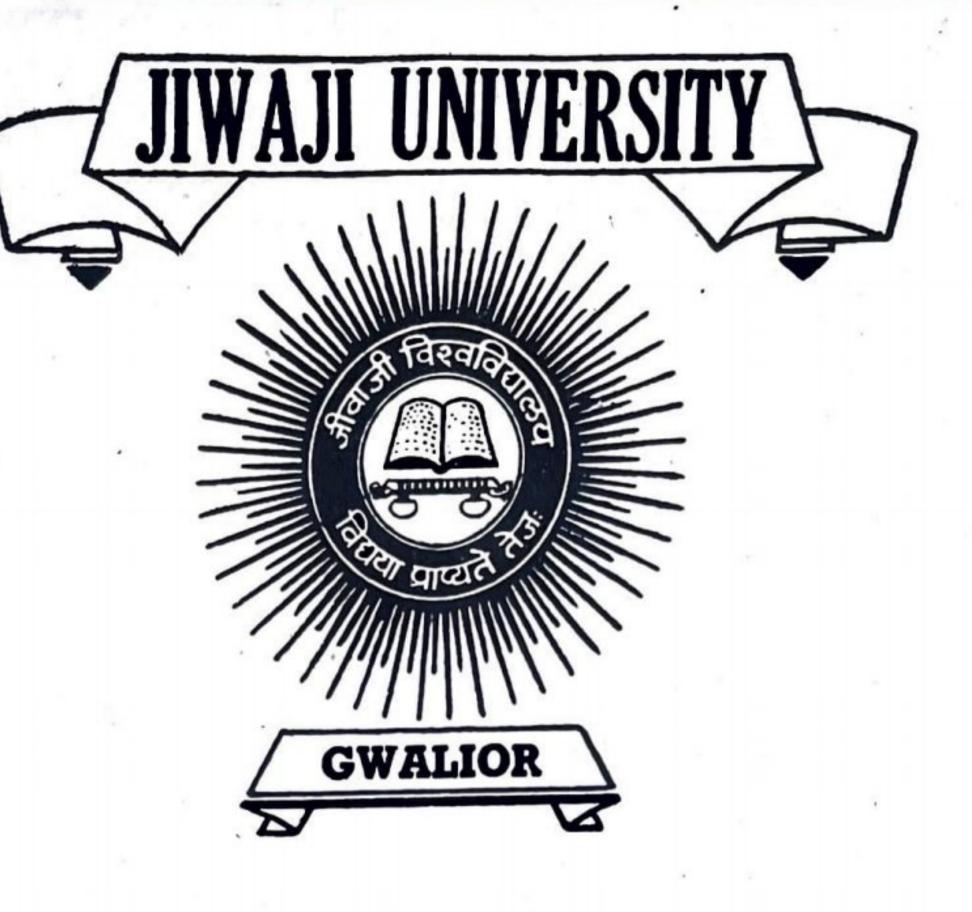
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The alphabet 'C' adjacent to marks denotes carry forward

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Dy. Registrar (Exams.)

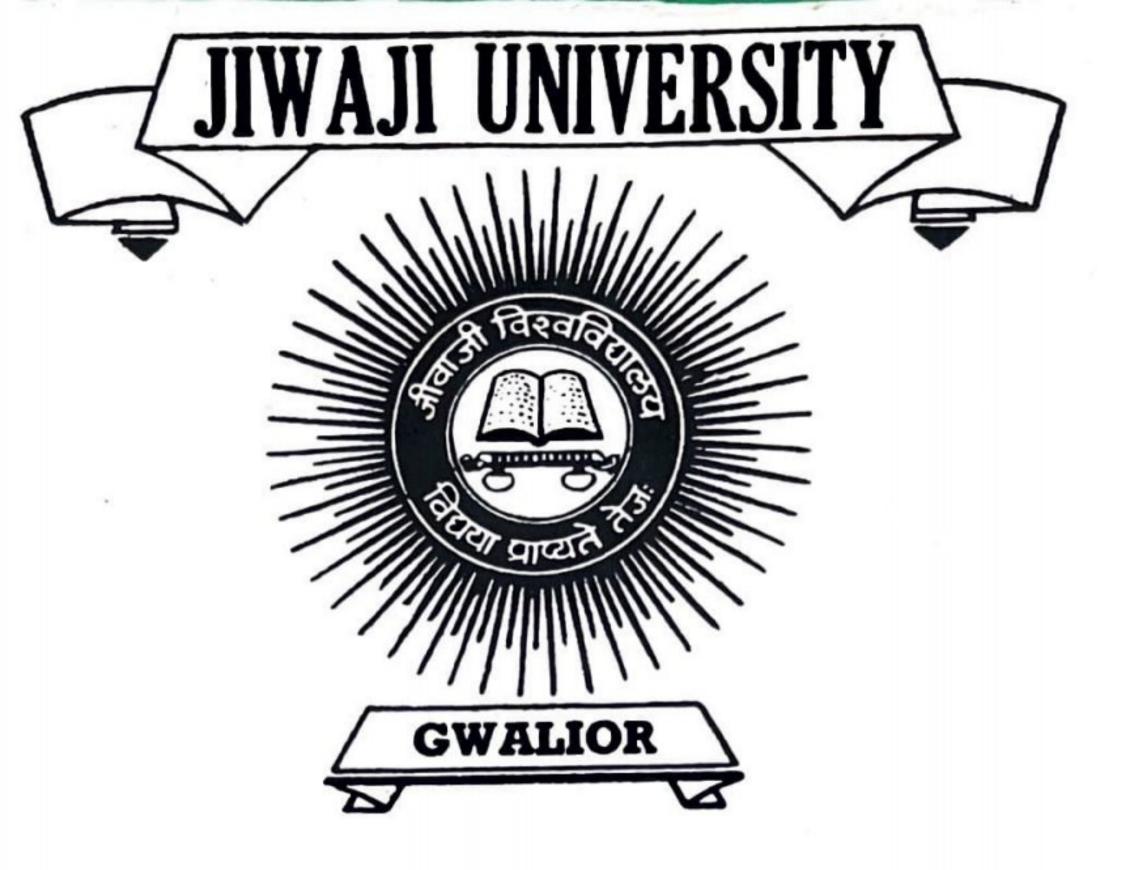


BACHELOR OF SCIENCE

This is to certify that (Km.) Red	kha Mahor
This is to certify that (Km.) Report of the Kamlaraja Girls College,	Gwalior
obtained the degree of BACHELOR	
in this University at the examination that she was placed in <u>Second</u>	
Her His subjects were 1. Chemistry	Botany

Date: 23 March, 1977.

Vice-Chancellor



MASTER OF SCIENCE

This is to certify that (Km.) Rekha Mahor

of the Govt. Science college, Gwalior

obtained the Degree of MASTER OF SCIENCE

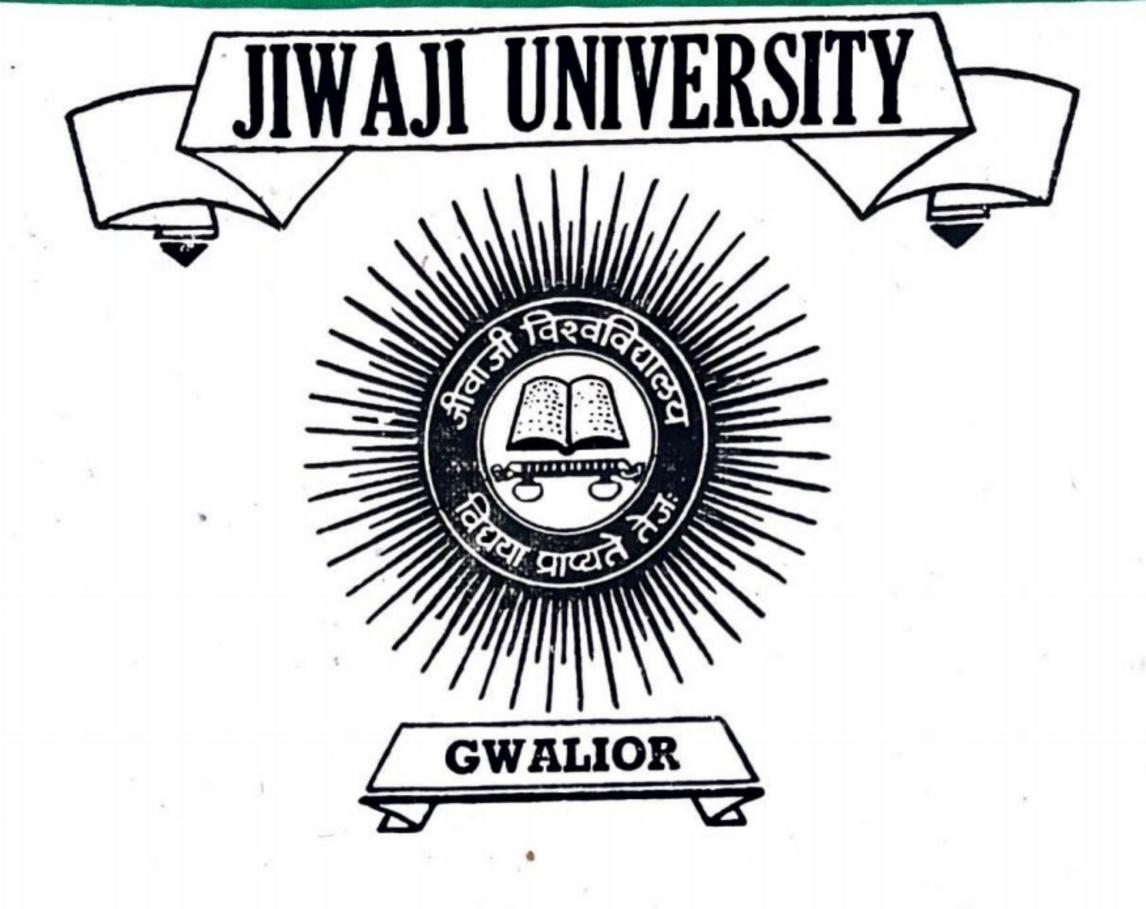
in Botany. in this University at the Examination

of 1978 and that he/she was placed in First

Division.

Date: 24 12 March, 1979.

Vice-Chancellor



DOCTOR OF PHILOSOPHY

This is to certify	that Ku. Rekha Mahor
has been admitted t	to the Degree of DOCTOR OF
PHILOSOPHY of	this University in
Botany	at the Convocation of 1983.

His/Her thesis is on Phytopathological Studies on The Wilt Complex of Coriander (Coriandrum Sativum L

Vico-Cl

Vice-Chancellor

Date: 28th, March, 1984.

Department of Botany

Government Science College, GWALIOR (MP)

Date: 237 March 1983

CERTIFICATE

This is to certify that MISS REKHA MAHOR has worked as a Research Scholar in this College from March, 1979 to March, 1983(4 years). During her research period, she has taught under-graduate and post-graduate classes in practicals and in theory also.

She has also served as a teacher on an ad-hoc basis during the session 1978-79.

She is hard working, sincere and has a good control over her classes. She has taken keen interest in all the activities of the department.

I am happy to put on record that her behaviour and work was quite satisfactory.

She bears a good moral character.

I wish her success in her future career as a teacher

and a researcher.

23.3.83

S. W. Khandekar

Govt. Science College, Gwalior (M. P.)

PRINCIPAL,

Govt. Science College Gwalior (M.P.)

Department of Botany

GOVERNMENT SCIENCE COLLEGE GWALIOR (M. P.)

Date 5th November, 1982.

CERTIFICATE

This is to certify that Miss Rekha Mahore has been a student of this college since 1976. She has joined research in August 1978 and submitted her Ph.D. thesis in Botany on 23.10.82 (Jiwaji University Gwalior).

During her research, she has taught Undergraduate & Postgraduate classes in Practicals and at times/theory also.

She has also served as a teacher on an ad-hoc basis during the session 1978-79.

She is hard working, Sincere and has a good control over her classes. She has taken keen interest in all the activities of the department.

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She bears a good moral character.

I wish her success in her future career as a teacher and a researcher.

S.W.Khandekar)

Head of Botany, Deptt.

Govt. Science College

Gwalior (M.P.)

PRINCIPAL,
Govt. Science College
Gwalior (M.P.)

ਦਰਤਰ ਜ਼ਿੰਗੀਆਂਤ ਸਤ੍ਹਾਂ ਰਾਣੀ ਸਰਗਾਰੀ ਹਾਲਜ ਇ: ਬੀਮਿੰਟਸਰ ਭਰਮ ਰੈ:ਬ-2-96/ /2244 ਸਿਤੀ 29-2-95 ਦ

विका: • बावजी वीरेवट।

ਬੁੱਕੀ ਮਤੀ ਹੇਵਾ ਹੋਈ ਜਿਸ ਦੀ ਨਿਸ਼ਰਤੀ ਇਸ ਲਾਲਜ ਵਿਚ ਬਤੌਰ ਜਾਰਟ ਟਾਈਮ ਨੰਡਰਰਾਰ ਇਨ ਨਿਲੇਸ਼ਪੂ (ਇਨ ਵਿਜ਼ਾਵ ਕੀਤੀ ਰਈ ਸੀ, ਨੂੰ ਵਿਦਿਸ਼ਰ ਸੈਸ਼ਨ ਬਤਮ ਹੈ ਜਾਣ ਕਰਕੇ ਸਜ ਮਿਤੀ 29-2-96 ਨੂੰ ਦੁਜਿਹਰ ਤੋਂ ਬਾਸ਼ਦ ਇਸ ਕਾਲਜ ਦੇਸ਼ੀ।' ਤੋਂ ਕਾਰਕ ਕੀਤਾ ਜਾਂਦਾ ਹੈ।

ਭੀਵੀ ਮਤੀ<u> ਕੋਯਾ ਸੰਪ੍ਰਤ</u> ਨੂੰ ਇਸ ਅਸਾਮੀ ਤੇ ਮਿਤੀ<u> 18-10-95</u> ਤੋਂ <u>29-2-98</u> ਤਕ ਕੇ ਮ ਕੀਤਾ ਹੈ।

ਜਿੱਠ ਐਕਟ ਤੋਂ । ਉਜਵੇਕਤ

ਸ਼ਾਰ:ਸਰਕਾਰੀ ਕਾਰਜ ਇਸਤਰੀਖ਼ ਬੀਮਿਤਸਰ

ਉਮਰੋਕਤ ਦਾ ਇਲ ਉਤਾਰਾ ਹੇਠ ਤਿਖਿਆ ਨੂੰ ਸੂਰਨ' ਸਤੇ ਹੋਰ ਕਾਰਵਾਈ ਹਿਤ ਭੇਜਿਆ ਜਾਂਦਾ ਹੈ।-

- 1) Lailway officers Rest House, Amilson
- 2) ਜਿਤਾ ਰੋਜ਼ਗਾਰ, ਅਫਸਰ, ਜੀ ਮਿਤਸਰ।
- 3) ਵਿੱਚ ਬਰਕਰ।

रे. गर्ड भिनेष्ठ में । मनवानी वंग्लन हिम्बनीम ' भी भिन्नमन This is to certify that Kum. Rekha

Mahor daughter of Shri Ramjidas Mahor served as Adhoc

the
Lecturer in Botany Department of Government Science

College, Gwalior from 20th September, 1978 to 7th

March, 1979 i.e. about 6 months. She has taught

undergraduate and post-graduate classes during this

period.

She is hard working , sincere and has a good control of the class.

Signature of the

Professor & Head of Botany Deptt.

Govt. Science College Gwalior

Signature of the

A CTAIN I SER (M. P.)

2016/19

THE UNIVERSITY OF JODHPUR

DAVID N. SEN D. Sc. (Czech.) PROFESSOR & HEAD



P.O. Box 14

LABORATORY OF PLANT ECOLOGY

DEPARTMENT OF BOTANY

UNIVERSITY OF JODHPUR

JODHPUR - 342 001 (INDIA)

Off. 22606 TEL. Res. 24418 Dept. 23399

September 17, 1994

CERTIFICATE

This is to certify that Dr. (Mrs.) Rekha Gupta W/o Dr. V.K. Gupta served as Ad-hoc Assistant Professor in the Botany Department of K.N. College for Women, Jodhpur University, Jodhpur w.e.f. 27th March, 1991 to 30th April, 1994.

She is hard working, sincere and has a good control on the class.

(David N. Sen)



LIST OF PUBLICATIONS

- 1 A new fruit -rot disease of Kanduri [Coccinea cordifolia Linn] 1981 Current Science 50 [6] 281 p.
- 2 Antifungal spectrum of some petal extracts of family convolvulaceae 1981, Geobios 8[2], 66-67p.
- 3 A new fungal disease of Coriander in India 1982 Acta Botanica Indica 10[2] 323 p.
- 4 Detection of inoculum of stem gall pathogen by washing method in coriander seed lot of M. P. 1980,67th session Ind. Sci. Cong. Pt. 3rd 120 p.
- An easy and quick detecting method for coriander seeds for sowing against Stem gall disease 1980 Seed. Tech. News 10[2] 21 p.
- Post infectional changes in amino acid contents of fruit rot infected Kanduri 1980 Ind. Jour. Of My. &Pt. Path 10[5] 64 p.
- 7 Changes in cultural characters of Fusarium oxysporum. f.sp coriandrii by light spectrum 1981.68th session. Ind. Sci. Cong. Pt. 3rd 34-35
- 8 Changes in amino acid contents of Kakaura fruits infected with Fusarium moniliformae sheld. 1981. 68th Session Ind. Sci. Cong. Pt. 3rd 34p.
- 9 Studies on the formation of macro & microconidia of Fusarium oxysporum f. Sp. Coriandrii in different colours of light 1981 M. P. Vighayan Academy
- 10 Production of toxic metabolites by Fusarium oxysporum f. Sp.coriandrii causing wilt disease of coriander 1982 69th session Ind. Sci. Cong. Pt.3rd 31p.
- 11 Post infectional changes in the amino acid contents of the fruit of Kanduri caused by Fusarium moniliformae sheldon. 1982, 69th session Ind. Sci. Cong. Pt.3rd 22p.
- 12 Post infectional changes in the sugar contents of the seeds of coriander plants infected with Fusarium oxysporum f. Sp. coriandrii 1983 70 session Ind. Sci. Cong. Pt.3^{rd.}

A NEW FUNGAL DISEASE OF CORIANDER IN INDIA

Rekha Mahor, S A M H Naqvi and R N Gupta
DEPARTMENT OF BOTANY, GOVERNMENT SCIENCE COLLEGE, GWALIOR-474009

Root-rot of Coriandrum sativum L. caused by Rhizoctonia bataticola (Taub.) Butler is reported for the first time from India.

During the survey of coriander-growing areas of Gwalior and Guna division, a severe root-rot of coriander was observed. The disease generally appears on mature plants by the middle of February to March-April. Leaves and stems of diseased plants wither and dry turning to straw colour. In severe state entire plants become wilted. There is a discolouration and rotting of roots and the development of abundant dark sclerotial bodies on their outer surface. On splitting open, the roots showed black tiny sclerotial bodies visible with the naked eyes.

A number of isolations were made from the diseased roots and also by the transfer of single sclerotium on potato-dextrose-agar. Mycelium and sclerotia developed in culture. The fungus was identified as *Rhizoctonia bataticola* (Taub.) Butler and pathogenicity was confirmed by suitable tests.

A perusal of existing literature (Bilgrami et al. 1979) shows that this note makes an addition to the list of fungal diseases of coriander in India.

The authors are thankful to the Director, C M I, Kew, England for confirming the identify of the fungus (No. 255277) and are grateful to Head of Botany Deptt., Govt. Science College, Gwalior for laboratory facilities.

REFERENCES

BILGRAMI K S, JAMALUDDIN AND RIZVI M A 1979 The Fungi of India I. New Delhi: Today & Tomorrow's Printers & Publishers

A NEW FRUIT ROT DISEASE OF KANDURI (COCCINIA CORDIFOLIA LINN.)

ALKA KAPOOR, REKHA MAHOR AND R. N. GUPTA
Department of Botany, Govt. Science College, Gwalior 474 002, India

KANDURI (Coccinia cordifolia Linn.) is a pretty twinning shrub of rainy season, found throughout India. The fruits are used as vegetables and said to be useful for diabetes.

During July and August (1979 and 1980) a severe fruit rot disease of Kanduri was observed in the vegetable fields around Gwalior, M.P. The disease was marked by discoloration and softening of the fruit tissues which in an advance stage became brown in colour. The pathogen finally reached the seeds.

Isolations made from the infected fruits yielded consistently a fungus culture. Pathogenicity tests were performed on young fruits by Prick method of inoculation. Symptoms appeared within 3-4 days and reisolations from these yielded the same organism as was used for inoculation. The fungus produces septate, light yellow coloured aerial mycelium on PDA plates. It is characterized by the production of microconidia in chains. Macroconidia are 3-5 septate,

spindle-sickle-shaped, slightly curved, generally pointed at the tip and $24-31 \times 3 \cdot 6-4 \mu$ in size. Chlamydo-spores are lacking. The fungus was identified as Fusarium moniliforme Sheldon.

Perusal of literature¹ showed that the fruit rot of Kanduri caused by *F. moniliforme* has not been reported from India so far.

The authors (AK and RM) are highly thankful to UGC for financial assistance and are grateful to Dr. J. N. Kapoor, Division of Mycology and Plant Pathology, I.A.R.I., New Delhi, for confirming the identity of the fungus.

September 6, 1980.

 Bilgrami, K. S. and Jamaluddin, M. A. Rizvi, The Fungi of India, Part I, Today and Tomorrow's Printers and Publishers, New Delhi, 1979.

GEOBIOS 8: 66-67, 1981

ANTIFUNGAL SPECTRUM OF SOME PETAL EXTRACTS

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ALKA KAPOOR, REKHA MAHOR, NEETA VAISHAMPAYAN and NIDHI GAUTAM

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Department of Botany, Govt. Science College, Gwalior-474 002, India

(Received March 31; Revised September 11, 1980)

It has been observed that generally the petals are free from the diseases. Taking advantage of this observation, an attempt has been made to see their fungitoxic nature. Flower extracts of 25 plant species are reported to produce inhibition on the spore germi-

nation and mycelial growth of 3 test fungiviz., Cephalosporium sacchari, Curvularia pallescens and Fusarium nivale by Tripathi & Dixit (1976). In the present investigation, 5 plants of family Convolvulaceae viz. Convolvulus pluricaulis, Evolvulus alsinoides, Ipomoea carnea,

female at a contract of the same were not so

the contraction analysis

Singaro N

Table 1. Screening and chromatographic analysis of 5 plant species for antifungal activity.

Plant species	Spore	germinati	on (%)	Myceli	ial inhibit	Rf values	
	A. br.	A. ba.	F. ox.	A. br.	A. ba.	F. ox.	
C. pluricaulis	Nil	Nil	Nil	97	94	80	·31, ·64, ·84
E. alsinoides	3.7	40	8.0	81	80	70	·33, ·64, ·84
I. carnea	12.5	14.0	16.3	43	50	35	.2952
I. palmata	198	25.6	22.5	30	40	30	.32
R. hypocrateriformis	32.1	33.5	54.9	10	12	12	.25
Control	100	100	100	Nil	Lill	li 1	_

A. br. = A. brassicae; A. ba. = A. brassicicola; and F. ox. = F. oxysporum.

Ipomoea palmata and Rivea hypocrateriformis have been taken for screening against the pathogens viz., Alternaria brassicae, A. brassiciola and Fusarium oxysporum.

Fresh petals were thoroughly washed with sterilized distilled water, ground, strained through two layers of muslin cloth and finally filtered through Whatman No. 1 filter paper. The clear filtrate thus obtained was sterilized and used as a test extract. The screening of the petal extracts was carried out by "Hanging Drop Technique" (Alexopoulos & Beneke, 1958) and by "Poisoned Food Technique" (Nene, 1971). For the paper chromatographic analysis, petal extracts were hydrolysed with 2M HCI for 30-40 min at 100°C.

As is evident from Table 1, the extracts of *C. pluricaulis* and *E. alsinoides* were almost completely fungicidal against all the test fungi while that of remaining were not so effective. The chromatographic analysis shows the presence of some unknown flavonoids in the extract.

It has been suggested earlier that the resistance in certain plants is due to the pre-

sence of certain chemicals in their tissues. The antifungal activity from flower extracts has been reported earlier by Tripathi & Dixit (1976). The petal extracts of 5 plants under investigation, indicating the presence of some flavonoids in them, which may prove to be a broad spectrum antibiotic(s). Their range of activity was found in the order *C. pluricaulis* > *E. alsinoides* > *I. carnea* > *I. palmata* > *R. hypocrateriformis*.

The authors are thankful to Prof. S.W. Khandekar Head, for providing facilities and to U.G.C. and C.S.I.R. for financial assistance.

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