

ACADEMIC AND RESEARCH PROFILE

Dr. A. K. ROY



A.K. Roy (Awadh Kishore Roy)

Ph.D., D.Sc. (H.C.), F.B.S., FPSI, F.E.S., FIMS.

Pro Vice Chancellor

*Professor of Botany & Director Bioinformatics.
TM .Bhagalpur University, Bhagalpur-812007*

Awadh Kishore Roy, University Professor of Botany, Director of Bioinformatics and ex -Head, P.G. Dept. of Biotechnology and presently Pro Vice Chancellor, T. M. Bhagalpur University, has obtained B.Sc., M. Sc. and Ph.D. degree from this University.

RESEARCH/ TEACHING EXPERIENCE:

- Carrying research work since 1973, worked as JRF, SRF & RA in INSA, MAB & DST Research projects
- Participated in Training Programs on "Phytopathological Technique" HAU, Hissar, INDIA-1980; "Pigeon Pea Pathology" ICRISAT, INDIA-1980; and on "Application of Radio isotopes in Biological Research", BARC, INDIA-1989
- Teaching Experience for more than thirty years: **Professor of Botany from 1994 onward and presently holding the responsibility of Director, Centre of Bioinformatics, T M Bhagalpur University Bhagalpur-812007**
- More than **145 original research papers** in reputed Indian and Foreign journals, about **three dozen review articles and 20 book chapters on different topics related to Microbiology** Plant Pathology Biotechnology and Biodiversity are in his credit.

MEMBER OF RESEARCH SOCIETY/ RESEARCH COUNCIL/ EXAM-BOARD:

- Member of several National and International Research Societies.
- Member of Research Council and Exam Board of some Indian Universities.
- Member of Expert Panel of Research Journals (National & International)

RESEARCH SPECIALIZATION:

- Diseases of medicinal plants and quality maintenance of plant drugs
- Mycotoxins contamination in crude drugs and strategies to prevent
- Fungal Biotechnology "Biofertilizer and nutrient mobilization through bio-processes.
- Biodiversity and conservation

BOOK PUBLISHED:

1. Recent Advances in Phytopathological Research (M.D.Publications, Delhi)
2. Phytodiversification and Human Welfare (M.D.Publications, Delhi)
3. Wasteland Management and Environment (Scientific Publication, Jodhpur)
4. Rhizosphere Biotechnology (in Press, Scientific Publication, Jodhpur)
5. Manual of Microbiology- NIPA, New Delhi

6. Manual of Biotechnology- NIPA, New Delhi
7. Biodiversity and Conservation, Ranchi Press, Jharkhand
8. Glimpses of Phytopathology, A B Publication Delhi.
9. Digital Book on Fungi- NISCAIR, CSIR, New Delhi
10. Technical Reports- 15on major areas of Microbiology, Mycotoxicology,Fungal Biotechnology and Reclamation of Coal fields.
11. Updated report on diseases of medicinal plants-MoEF,New Delhi-2013

VISITED ABROAD TO CHAIR THE SCIENTIFIC SESSIONS AND TO DELIVER PLENARY LECTURE

- Institute of Pharmaceutical Biology, University of Braunschweig, **W. Germany**, 1989.
- International Congress on Traditional Medicinesö- Bali, **Indonesia**, 1990.
- Post Harvest handling of tropical fruitsö, **Thailand**,1993
- World Congress on Complementary Medicines, Colombo, **Sri Lanka**,1997

AWARD/ HONOURS CONFERRED

Young Scientists Award- ICRISAT,Hyd, India	1986	Y.S. Murty Medal,
Ind. Botanical Society,		1988
Conferred with D.Sc. degree (HC) by OIUCM, Sri Lanka in Nov.		1997
Jeerasanidhi Lecture Award, Indian. Phytopath.Society.		2002
Best Teacher Award TM Bhagalpur University.		2009
Prof. S. R. Bose Memorial Lecture Award, IMS, Kol.		2009
<ul style="list-style-type: none"> • Fellow Indian Bot.Soc. - F.B.S. • Fellow Indian Phytopath. Soc. - F.P.S.I. • Fellow Indian Soc. of Ethnobiology- F.E.S. • Fellow of Indian Mycological Society FIMS • Councilor, Science Congress- 1989 • Zonal President-I.P.S. 1995 		

ORGANIZATION OF SYMPOSIA AND SCIENTIFIC SESSIONS

Worked as an active member in the Organization of several scientific Seminars, Symposia and Congress of National level since 1975:

1. Zonal Meeting of Indian Phytopathological Society, 1995.
2. National Sympo on öPhyto-Diversification and Human Welfareö, 1996
3. National Symposium on öWasteland Managementö-1998
4. National Symposium on öRhizosphere Biotechnologyö-2004
5. National seminar on "Biodiversity and Conservation"- 2010

6. National seminar on "Herbal treatment of diabetes" - 2011
7. National seminar on "Glimpses of Phytopathology" - 2012
8. Regional seminar on Basics of Bioinformatics and computer application-2012
9. National workshop on "Basics of Bioinformatics and biological data Base" - 2013

Major Research Projects Undertaken:

Prof. Roy has successfully completed several major Research Projects sanctioned by **ICAR, CSIR, UGC, DBT, DST, Ministry of Environment and Forests, Ministry of Coal and NTPC Ltd** as Principal Investigator.

Successfully **completed Projects 15**, Ongoing project 1,

Title of the Scheme	Agency	Period	Position
1. Biodegradation of active ingredients of traditional medicinal plants common in tribal belts of Santhal district, Bihar	U.G.C.	1981-84	PI
2. Post harvest diseases of Parwal and Musk melon and their control	ICAR	1983-86	PI
3. Studies on mould infestation in herbal drug plants with special reference to mycotoxin elaboration	U.G.C.	1986-90	PI
4. Studies on diseases on bananas in Bihar and their control	U.G. C.	1986-89	PI
5. Biological effects of Fusarial toxins of plant and animal system	CSIR	1988-91	Co- PI
6. Studies on biodeterioration of drug yielding plants by insect pest under storage and their control.	U.G.C.	1990-93	PI
7. Incidence of mycotoxins in traditional herbal medicine and their effect on medicinal system	CSIR	1991-94	PI
8. Application of Mycorrhizal technology to improve yield of minor millet- A poor man's food of Bihar.	DBT(Min of S&T)	1996-99	PI
9. Development of biofertilizer package for rehabilitation of degraded forests with special attention to fruit trees.	DBT(Min of S&T)	2000-04	PI
10. Reclamation of mining wasteland and regeneration native vegetation through microbial technology in Rajmahal coal field area of ECL	Min.of Coal	2001-05	PI

11. Biological Control of aflatoxigenic fungi in maize.	DST(Min of S&T)	2004-07	PI
12. Biodiversity of Vesicular arbuscularmycorrhizal fungi and their application for conservation of selected endangered economic plant species of Jharkhand State	Min. of Env. & Forests	2003-07	PI
13. Training & Extension program on vermiculture& vermicomposting	DBT(Min of S&T)	2004-07	PI
14. Low cost input technology for the revegetation of coal mine spoils in order to protect the environment.	CMPDI(M in. of Coal)	2007-10	PI
15. Taxonomy of Fungi of Bihar, Jharkhand and adjoining areas of West Bengal	Min. of Env. & Forests	2002-012	PI
ON GOING RESEARCH PROJECT			
16. Eco-friendly management of household solid wastes	NTPC	2013	PI

EXPERTISE IN THE FIELD OF FORESTRY

A. Major research work done so far in relation to study of Biodiversity and conservation plan of forests of Bihar and Jharkhand, microbes of forest with special reference to Mycorrhizae, and development of Bio inoculants package for reclamation of degraded forest/mine areas.

B.RELATED TO ENVIRONMENTAL IMPACT ASSESSMENT AND DATA GENERATION OF FLORA AND FAUNA:

Working expertise in relation to survey, Data generation of Flora and Fauna/ Ecology/Biodiversity and Conservation Plan of Aluminium Smelter/Coal/Iron ore mines of ECL, CCL, BCCL, NCL, MCL, JSPL and others, documentation and preparation of Report in this field for more than 10 yrs.

TASK FORCE: Member of Taskforce of DBT, Ministry of Science and Technology Govt.India New Delhi during 2001-04.

VISITED ABROAD:

1. Institute of Pharmaceutical Biology, the University of Braunschweig, **W. Germany**, 1989.
2. International Congress on Traditional Medicinesö- Bali, **Indonesia**, 1990.
3. Post Harvest handling of tropical fruitsö, **Thailand**,1993
4. Delivered special lecture on öAntidiabetic herbal drugsö. World Congress for complementary medicines, Colombo, **Sri Lanka**,1997

RESEARCH WORK IN COLLABORATION WITH:

1. CMPDIL, Ranchi for data generation of flora and fauna for 14 coalmines within ECL, CCL, NCL & BCCL
2. Immuno-Phytopathological Laboratory, North Bengal University (W.B).
3. Zindal Steel and power Ltd., Jharkhand.

He Comprehensive list of fungi responsible to cause diseases of medicinal plants has been prepared. His contributions on Bio-deterioration of medicinally active principles & elaboration of mycotoxins in crude herbal drugs under storage, and also the strategy to control their quality are new approaches in the field of Bio-medical Research. He has also expertise in base line data generation of flora and fauna, Biodiversity and its conservation, EIA/EMP of several mining areas of Jharkhand, UP, Orissa and CG.

Research Guidance

- 20 Awarded
- 3 Thesis submitted
- 5 In compilation stage

Name	Title of Research	Name of University	Year of award of degree
1. Dr. N. L. Ojha Teacher Fellow	Pathological and Biochemical studies on fruits of <i>L. vulgaris</i>	Bhagalpur University	June.1984
2. Dr. Nilam Choubey J.R.F. (UGC)	Pathological deterioration of some fruits and seeds having antidiabetic ingredients	Do	Feb,1985
3. Dr. C. P. Singh Teacher Fellow	Pathological and Biochemical studies on banana fruits (var. green) common in North Bihar	Do	Feb.1987
4. Dr. A. K. Prasad S.R.F. (ICAR)	Pathological investigation on some varieties of pointed-gourd fruits common in Bihar	Do	March 1987

5. Dr. G. R. Dutta J.R.F. (ICAR,UGC)	Pathological and Pharmacological studies of some plants having hypoglycemic properties	Do	Oct.1988
6. Dr. H. K. Chourasia JRF, SRF, RA (CSIR)	Pathological and biochemical investigation of some common drug plants with special reference to mycotoxin elaboration	Do	July1990
7. Dr.(Mrs.)NeeraKumari ari JRF, (UGC)	Ecology of some moulds in relation to the deterioration of herbal drug plants	Do	Aug.1991
8. Dr.(Mrs.)VineetaKumari JRF(UGC)	Studies on biodeterioration and mycotoxin elaboration on seeds of medicinal values	Do	June 1992
9. Dr. Prasoon K. Roy	Chemo-cytogenetical studies in Cucurbitaceae	Do	July 1992
10. Dr.(Mrs.)Meera Sharma	Studies on Biodeterioration of some root drug plants with special reference to pharmacognosy & Pharmacology	Do	April 1993
11. Dr. D. K. Mishra Teacher Fellow	Pathological and enzymological studies on soft rot diseases of sponge gourd	Do	Mar,1994
12. Dr.(Mrs.) RashmiKumari JRF, SRF(DBT)	Studies on VAM Association in <i>Eleusinecoracana</i> (Minor Millet) with special reference to crop improvement	Do	Feb.2001
13. Dr.(Mrs.)PritySagar JRF (DBT)	Studies of diversity of VAM fungi associated with Litchi fruit tree in relation to the growth performance	Do	June, 2005
14. Dr. AmarNath Singh, JRF, SRF(DST)	Diversity and growth promoting efficacy of VAM fungi with special reference to some medicinal plants	Do	April,2006
15. Dr. AnfalArshi JRF (CMPDI)	Studies on rhizospheremicroflora and their role in establishment of some plant species on OBD of Lalmatia coal field	Do	Jan.2007
16. Dr. Shankar K. Pandey JRF (AICOPTAX)	Taxonomical & pathological studies of fungi causing diseases of medicinal plants with reference to Coelomycetes	Do	2008
17. Dr. Neelesh Kr. Gautam, JRF,MoEF	Investigation on diversity of AM fungi associated with <i>Andrographispaniculata</i> in relation to phosphate...	Do	2008
18. Dr.NandLalMandal, JRF, DST.	Studies on Biological control of aflatoxin production by rhizospheremicroflora in Maize.	Do	2008
19. Dr.S.K.Tiwary, P.O(DBT)	Studies on Production of quality Vermicompost with reference to growth performance of Med. Plants	Do	2009

20. Dr. Anuj Rani, TA, CMPDI	Investigation on microbial diversity of OBD soil with reference to their role in biological rejuvenation in NCL coal field	Do	2013
21. Mr. Pankaj Kumar, NET JRF, DBT	Studies on micro propagation of litchi (<i>Litchi Chinensis</i> Sonn.) cv. Bedana using in vitro techniques and identification of genetic fidelity of regenerated plants through RAPD and RFLP methods	Do	Thesis submitted
22. Mr. Shadab Anwar NET JRF, DBT	Field of Research Parasitology In collaboration with RMRI, Patna	Do	In compilation stage
23. Mr. Jiv Kant Singh, NET JRF, ICMR	Study on the effect of Cumin and Curcumin ON KIDNEY of Swiss albino mice (<i>Mus musculus</i>) treated with Profenofos In collaboration with Mahabeer Cancer Research Institutes	Do	Thesis submitted
24. Mrs. Rashmi Singh	Studies on solubilisation of phosphate by rhizosphere fungi in relation to growth performance of Litchi platns	Do	Thesis submitted
25. Mr. Amod Kumar	Studies on microbial spoilage of wheat grains in relation to molecular marker	Do	Under progress
26. Mr. Ravi Shankar Mishra, TA, Biotech	Pathological studies of <i>Dalbergia Sissoo</i> and its biological control	Do	Under progress
27. Ms. Marry S. Hansda, Rajiv Gandhi Fellow	Studies on diversity of VAM fungi of ECL	Do	Under progress
28. Mr. S.S. Mandal, Scientist, Bihar Agri. Univ. Sabaur	Data mining of Medicinal Plants and folklore herbal medicine of Jharkhand.	Do	Under progress

LIST OF PUBLICATIONS:

✦ Review Article

❖ Book Chapter

➤ Research paper in International Journal

Rest All -Research paper in National Journal

- A. K. Roy (1974) The Utilization of monosaccharides by *Colletotrichumdematium* causing leaf spot diseases of *Adhatodavasica*. *Natural Science*, **7 (1)**: 13-17, Bhag. Univ. Jour.
- A. K. Roy (1975) *Spegazziniasundara* from *Datura metal*. *Curr.Science*, **44 (9)**: 327
- A. K. Roy and K. S. Bilgrami (1975) Leaf Spot diseases of some medicinal plants. *Natural Science*, **8(1)**: 18-27, Bhag. Univ. Jour.
- A. K. Roy (1975) A new host of *Colletotrichumdematium*. *Indian Phytopath.*,**28(4)**: 562
- A. K. Roy & T. Prasad (1976) Effect of carbohydrates on the growth and sporulation of *Nigrsporaoryzae* (Berk& Br.)Petch.*Proc. Bihar Acad. Agric. Sci.*,**24(1)**: 35-40
- A. K. Roy (1976): Some new records of fungi on medicinal plants. *Curr. Sci.*, **45 (12)**: 464-465.
- A. K. Roy (1976): The influence of Carbon sources on the amino acids composition of four pathogenic isolates of *Colletotrichumdematium*. Proc. Sym. "Physiology of Microorganisms", Dept. of Botany, Bhagalpur Univ., Bhagalpur, pp.69-74.
- A. K. Roy (1976): Post infection changes in free amino acid and sugar contents of *Aleo-vera* Jour.ex. Linn.Leaves. *Natural Science*,**9(1)**: 8-10, Bhagalpur Univ. Jour.
- A. K. Roy, Jamaluddin and M. M. Prasad (1976): Some new leaf spot diseases. *Curr.Sci.*,**45(16)**: 604.
- T. Prasad, K. S. Bilgrami, A. K. Roy and Jamaluddin (1976) Deterioration of Mung Seeds by *Curvularialunata*. *Seed Research*, **4 (2)**: 191-193.
- K. S. Bilgrami, T. Prasad, Jamaluddin and A. K. Roy (1976): Studies on deterioration of some pulses by fungi. *Indian Phytopath.***29(4)**: 374-377.
- A. K. Roy and J. V. V. Dogra (1977) A new fruit disease of custard apple. *Proc. Bihar. Acad. Agric. Sci.*, **25 (1)**:119.
- M. M. Prasad and A. K. Roy (1977) New records of fungi on fruits and vegetables *Proc. Bihar. Acad. Agric. Sci.*, **25 (1)**:100-101.
- A. K. Roy (1977) Effect of nitrite nitrogen on growth and sporulation on *Colletotrichumdematium* (Pers. ex Fr.) Grove. *Jour. Ind. Bot. Soc.* **56(4)**:278-280.

- K. S. Bilgrami, and A. K. Roy (1977) Nitrogen content in four isolates of *Colletotrichumdematium* in relation to their virulence. *Ind. Phytopath.***30(2)**: 262-263.
- A. K. Roy (1977) Pathological studies of *Colletotrichumdematium*(Pers. ex Fr.) Grove causing leaf spot diseases of some medicinal plants. *Natural Science*.**10(1)**: 56-67, Bhag. Univ. Jour.
- A. K. Roy and K. S. Bilgrami (1977) Cholesterol synthesis in *Colletotrichumdematium*(Pers. ex Fr.) Grove. *Curr. Sci.*,**46(6)**: 203.
- A. K. Roy (1978) Synthesis of organic acids in the mycelium of *Colletotrichumdematium*(Pers. ex Fr.) Grove during the utilization of different sugars. *Jour. Ind.Bot. Soc.***57**: 57-60.
- M. K. Sinha, A. K. Roy and T. Prasad (1978) Reduction in total nitrogen content of arhar seeds due to storage fungi. *Curr. Sci.*,**47(15)**: 550-551.
- K. S. Bilgrami and A. K. Roy (1978) Glucose and fructose contents of *Colletotrichumdematium*.*Ind. Phytopath.***31(1)**: 88-89.
- M. K. Sinha, T. Prasad and A. K. Roy (1978) Changes in cholesterol content in Khesari (*Lathyrussativus* L.) seeds infested with *Aspergillus flavus* Link. *Curr. Sci.* **47(22)**: 871.
- A. K. Roy (1979) Synthesis of transient oligosaccharides in vitro by four pathogenic isolates of *Colletotrichumdematium*. *Jour. Ind. Bot. Soc.* **58(1)**: 30-34.
- A. K. Roy (1979) Some new leaf spot diseases in india. *Geobios.***6**: 36-37.
- A. K. Roy and M. M. Prasad (1979) Carbohydrate metabolism : Synthesis of amino acids in culture media by some isolates of *Colletotrichumdematium*.(Pers.ex Fr.)Grove. *Biol. Bull. Ind.* **1(3)**: 19-22.
- S. N. Singh and M. K. Sinha, A. K. Roy and T. Prasad (1978) An addition to Indian soil fungi. *Geobios.***6**: 96.
- A. K. Roy, M. M. Prasad and M. K. Sinha (1979) Effect of basal sugars on glucose and fructose contents of *Colletotrichumdematium* *Nat. Acad. Sci. Letters***2(6)**: 209-210.
- A. K. Roy and M. K. Sinha (1979) Free amino acid changes in the leaves of medicinal plants by *Colletotrichumdematium* under pathogenesis. *Proc. Nat. Acad. Sci. Ind.* **49 (B)**: 216-218.
- G. Sahay and A. K. Roy (1979) Some new host records of *Pestalotiopsisroyenae* *Ind. Phytopath.* **32 (4)**:660-661.
- M. M. Prasad and A. K. Roy(1979) Effect of temperature and humidity on fungal deterioration of two vegetables. *Nat. Acad. Sci. Letters***2(12)**: 312-315.
- G. Sahay and A. K. Roy (1980)*Pestalotiopsis* on Orchids in Assam *Nat. Acad. Sci. Letters***3(2)**: 41.
- A. K. Roy and M. M. Prasad (1980) Amino acids composition of culture filtrate and mycelium of two pathogenic fungi. *Proc. Nat. Acad. Sci. Ind.* **50 (B)**: 1-4.

- M. M. Prasad and A. K. Roy (1980) Effect of Carbohydrates on amino acids composition of two fruit rot causing fungi. *Ind. Phytopath.* **33 (2)**:312-315.
- A. K. Roy and M. M. Prasad (1981) Leaf spot diseases of traditional medicinal plants in tribal belts. *Biol. Bull. Ind.* **3(1)**:36-39.
- A. K. Roy (1982) Intracellular glucose and fructose contents of two isolates of *Colletotrichumdematium* *Jour. Ind. Bot. Soc.* **51**: 169-171.
- N. L. Ojha, A. K. Roy and N. Choubey (1982) Changes in total phenol of Bottle gourd fruits by *Botryodiplodiatheobromae* Pat. *Biol. Bull. Ind.* **4 (1)**: 50-51.
- R. P. Sah, A, K, Roy and M. K. Thakur (1982) Seed Mycoflora of *Elettariacardamomum* *Biol. Bull. Ind.* **4 (3)**: 205-207.
- A. K. Roy, N. Choubey, R. P. Saha and M. M. Prasad (1983) Hitherto unrecorded diseases of indigenous medicinal plants. *Biol. Bull. Ind.* **5(2)**: 161-164.
- A. K. Roy(1983) Studies on indigenous medicinal plants of tribal belts (SanthalPargana division), *SEBS Newsletter* 2:4.
- M. M. Prasad, A. K. Roy, R. P. Saha and N. Choubey(1983) Changes in seed oil contents in *Cucumissativus* Linn. By three pathogenic fungi.*Biol. Bull. Ind.* **5(3)**: 225-228.
- A. K. Roy and N. Choubey (1983) Variation in total phenol in Bottle gourd fruit during maturation and storage. *Nat. Acad. Sci. Letters.* 6 (2): 43-44.
- N. Choubey and A. K. Roy(1983) Influence of humidity on the total phenols in bitter gourd infected with two pathogenic fungi *Biol. Bull. Ind.* **5(2)**: 156-158
- A. K. Roy and N. Choubey (1984) Changes in protein contents of bitter gourd at different relative humidities by two pathogenic fungi *Ind. Phytopath.* **37 (1)**: 179-181.
- N. L. Ojha, A. K. Roy and A. K. Prasad (1984) Changes in protein content of bottle gourd fruits by some pathogenic fungi in field. *Ind. Bot. Reprtr.* **3(2)**:159-160.
- A. K. Roy and N. Choubey (1985) Sugar contents of Karela fruits at different relative humidities under pathogenesis. *Ind. Phytopath.* **38(1)**:156-157.
- A. K. Roy and N. L. Ojha (1985) Ascorbic acid content in bottle gourd fruit during different ages of maturation and storage *Nat. Acad. Sci. Letters.* 8 (6): 175-176.
- A. K. Prasad and A. K. Roy (1986) Biochemical changes in pointed gourd fruits under pathogenesis *Ind. Bot. Reprtr.* **5(1)**:83-84.
- A. K. Roy and A. Krishna (1987) Some pathological aspects of pointed gourd fruits common in north Bihar *Plant Sci. Res.* 64-70.

- A. K. Roy and A. Krishna (1987) Biodeterioration of some antidiabetic seeds under storage. *Plant Sci. Res.* 103-107.
- A. K. Roy and N. Kumari (1987) Seasonal variation of mycoflora associated with stored medicinal fruits and seeds. *Biol. Bull. Ind.* **9(2)** 111-116.
- A. K. Roy, H. K. Chaurasia and N. Kumari (1987) Association of mycoflora with some crude herbal drugs of Bhutan. *Ind. Bot. Repr.* 6(1):48-49.
- N. Kumari, H. K. Chaurasia and A. K. Roy (1987) Fungi from Ayurvedic medicine 'Amalkyadichurna' *Ind. Bot. Repr.* 6(1):46.
- A. K. Roy and G. R. Dutta (1987) Mycoflora associated with strychnous seeds and deterioration of their active principles under storage. *Ind. Phytopath.*, **40(4)**:520-524.
- A. K. Roy (1987) Pilferage of medicinal plants from Santhal Pargana Division. *Proc. Symp. State Environ.*, Bhagalpur (India), pp. 66-70.
- A. K. Roy and A. K. Prasad (1987), Some pathological aspects of pointed gourd fruits common in North Bihar. *Plant Sci. Res.* Shantiniketan (India), pp. 64-70.
- A. K. Roy, H. K. Chaurasia and N. Kumari (1987) Seasonal variation in mycoflora associated with stored medicinal fruits and seeds. *Biol. Bull. India.*, **9(2)**: 111-116.
- A. K. Roy, N. Chaubey and G. R. Dutta (1987) Biodeterioration of some antidiabetic seeds under storage. *Plant Science Research*, Shantiniketan (India) pp.102-107.
- A. K. Roy, K. K. Sinha and H. K. Chaurasia (1988) Aflatoxin contamination of some common drug plants. *Appl. Environ. Microbiol.* **54(3)**: 842-843.
- A. K. Roy, M. M. Prasad, N. Kumari and H. K. Chaurasia (1988) Studies on association of mycoflora with some drug plants and aflatoxin producing potentiality of *A. flavus* *Ind. Phytopath.* **41(2)** 261-262.
- A. K. Roy and H. K. Chaurasia (1989) Effect of temperature on aflatoxin production in *Macunapuriensis* seeds. *Appl. Environ. Microbiol.*, **55** (2): 531-532.
- Vineeta Kumari, H. K. Chaurasia and A. K. Roy (1989) Aflatoxin contamination in seeds of medicinal value. *Curr. Sci.*, **58(9)**: 512-513.
- A. K. Roy and H. K. Chaurasia (1989) Aflatoxin problem in some medicinal plants under storage. *Int. Jour. Crude Drug Res.*, **27(3)**: 156-160.
- A. K. Roy and G. R. Dutta (1989) Hypoglycaemic effect of *Cocciniagrandsis* (L) Bhandari fruits on alloxanised rabbits. *Ind. Bot. Repr.* 8(1):73-74.
- A. K. Roy (1989) Threat to medicinal plants and plant drugs by fungi [Y. S. Murthy Medal Lecture, XIth All India Bot. Conf. Tirchirapalli (TN)]. *Jour. Ind. Bot. Soc.* 68:149-153.

- A. K. Roy and H. K. Chaurasia (1990) Inhibition of aflatoxin production by microbial interaction. *J. Gen. Appl. Microbiol.***36**:59-62.
- A. K. Roy and H. K. Chaurasia (1990) Effect of relative humidity on fungal association and aflatoxin production in *Piper longum* fruits. *Ind. Bot. Repr.***8**(2):138-140.
- A. K. Roy and H. K. Chaurasia (1990) Mycotoxin incidence in root drugs. *Int. J. Crude Drug. Res.***28**(2): 157-160.
- A. K. Roy and H. K. Chaurasia (1990) Fungal association and deterioration of active principles of *Macuna pruriens* seeds under different relative humidities. *Acta Botanica Indica***18**(1): 235-239.
- A. K. Roy and H. K. Chaurasia (1990) Aflatoxin production on *Piper longum* fruits under different temperatures. *Int. J. Crude Drug. Res.***28**(3): 233-235.
- H. K. Chaurasia and A. K. Roy (1990) A survey of drug plants of Bhagalpur and Santhal Pargana region (Bihar) for therapeutic potentiality. *J. Eco. Tax. Bot.* 14 :
- A. K. Roy and Vineeta Kumari (1990) Aflatoxin and citrinin in seeds of some medicinal plants under storage. *Int. J. Crude Drug. Res.***28**(4):
- ☼ A. K. Roy, G. R. Dutta and A. K. Roy and Vineeta Kumari (1990) Mould infestation with the seeds of medicinal value under storage. *Proc. Int. Seed Symp.*, Jodhpur pp.371-374.
- Vineeta Kumari and A. K. Roy (1990) Biodeterioration of *Embeliaribes* seeds under the influence of different humidities. *Nat. Acad. Sci. Letters.* **113**(5):167-169.
- A. K. Roy and H. K. Chaurasia (1990) Mycoflora, Mycotoxin producibility and mycotoxins in traditional herbal drugs from India. *J. Gen. Appl. Microbiol.***36**:295-302.
- Meera Sharma and A. K. Roy (1991) Vesicular arbuscular mycorrhizae in hypoglycaemic plants. *Nat. Acad. Sci. Letters.* **14**(12): 467-468.
- ☼ A. K. Roy and Vineeta Kumari (1991) Inhibitory effect of light on aflatoxin B₁ production in two medicinal seeds. *Proc. Sym. "Mycotoxin Incidence and Human Health"* Bhagalpur, pp.187-190.
- ☼ H. K. Chaurasia and A. K. Roy (1991) Effect of temperature, relative humidity and light on aflatoxin B₁, production in *Neem* and *Datura* seeds *Int. Jour. Pharmacognosy*, **29**(1): 1-6.
- A. K. Roy and H. K. Chaurasia (1991) Aflatoxin occurrence in Crude drugs of plant origin. *Ann. Phytopath. Soc. Japan.* **57**: 256-258.
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