

CURRICULUM VITAE

Dr. Rama Devi Narla

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CURRICULUM VITAE

PERSONAL DATA:

Name: Dr. Rama Devi Narla

Date of Birth: 19th May 1948

Nationality: Indian

Marital Status: Married

Profession: Agricultural Scientist (Plant Pathologist)

Position: Senior Lecturer

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EDUCATION

- Ph.D. (1985): Osmania University, Hyderabad, India.
- Thesis title: Studies on natural occurrence of *Aspergillus* toxins in
maize and their control by some antifungal compounds
- M.Sc. Agri. (1975): Banaras Hindu University, India.
Subjects; Mycology and Plant pathology
- Thesis title: Teliospore development of two smuts in artificial culture
and some soil fungi from Varanasi
- B.Sc. Agric. (1970): Andhra Pradesh Agricultural University, Hyderabad, India.
Courses studied: Agronomy, Plant physiology, Agriculture botany, Genetics,
Plant breeding, Plant pathology, Agriculture economics,
Agriculture engineering, Horticulture and Agriculture
Extension.

SCHOLARSHIPS/FELLOWSHIPS

Banaras Hindu University Scholarship for 2nd year M.Sc. Agriculture 1974. Obtained University Gold Medal for standing First in the Masters programme in the University.

CSIR (Council of Scientific and Industrial Research) Scholarship (1982-1985) for Ph.D., in Microbiology.

ICRISAT Scholarship (1995) Identification and Detection of Plant Viruses, ICRISAT Asia Center, India.

ICRISAT Scholarship (1996) Virus Identification. Institute of Crop Protection, Pretoria, South Africa.

EMPLOYMENT

Work Experience:

2002-Present: Senior Lecturer, Department of Plant Science & Crop Protection, UoN.

1989-2002: Lecturer, University of Nairobi, Crop Protection Department, UoN.

Responsibilities:

- Teaching undergraduate and postgraduate courses; Plant Mycology, Post harvest diseases & Seed Pathology, Disease and Pest Management. Supervision of Diploma, Undergraduate, Postgraduate and PhD students on their projects.
- Thesis examination both internal as well as external.
- Providing consultancy and advisory services to small-scale farmers as well as other growers with disease problems on different crops.
- Coordinating pesticide efficacy trials programme for the Department.

1995: Visiting Scientist, ICRISAT, India.

Responsibilities:

- Virus identification and transmission studies

1982-1985: Senior Research Fellow (SRF) Regional Research Laboratories Council of Scientific Industrial Research, India.

Responsibilities:

- Supervision of Research Assistants
- Helping in the CSIR project

1979-1982: Junior Research Fellow (JRF) Regional Research Laboratories (RRL) Council of Scientific Industrial Research (CSIR).

Responsibilities:

- Isolation, culturing, identification of soil fungi and screening fungal metabolites for their efficacy on pathogenic fungi.

Positions Held as a member of the department, University of Nairobi

2008 to Present: Representative of the Department to College Library Committee (Sub-committee of College Academic Board).

2006 to Present: Representative of the Department to Faculty Post Graduate Studies Committee.

2006 to Present: Member, Department Research Committee.

2005 to Present: Coordinator, Pesticide efficacy trials, Consultancy and Income generation unit of the Department of Plant Science and Crop Protection.

2004-2005: Examination Officer, Department of Crop Protection.

2005-2007: Examination Coordinator, Dept. of Plant Science and Crop Protection.

1995-Present: Member Dept. Welfare Association Committee.

Research & Teaching Interests

Plant Mycology, Epidemiology of Plant Diseases, Crop Varietal screening and selection (phenotyping) against diseases, Disease Management, Post harvest Diseases and Seed pathology, Pesticide science and Phytosanitary Regulations.

Teaching Postgraduate, Undergraduates and Diploma students

<u>Course</u>	<u>Period</u>	<u>Level (Yr)</u>
Plant Mycology	1997-Present	M.Sc., Undergraduate (4) and Diploma
Plant Virology	1990-1996	M.Sc.
Crop Protection	1991-2002	M.Sc.
Disease and Pest Management	2002-2008	M.Sc.
Storage Pests and Pathogens	2005-Present	M.Sc.(ARM)
Post harvest Diseases and Seed Pathology	1994-2007	Undergraduate (4)
Post harvest Pests and Diseases	2007-Present	Undergraduate (4)
Diagnostics Studies of Crop Diseases	2003-Present	Undergraduate (4) and Diploma
Seed Health	2010-Present	Undergraduate (3)
Virology and Nematology	1994-1996	Undergraduate (4)
Plant Pathology	1993-1994	Undergraduate (3)
Plant Pathology	1992-1993	Undergraduate (2)
Microbiology	1989-1992	Undergraduate (1)

ON GOING RESEARCH PROJECTS

- 1.** Improving bean yields by reversing soil degradation and reducing soil borne pathogens on small holder farms in Western Kenya, funded by NIFA-USDA In collaboration with Cornell University, U.S.A, 2012-2016.
- 2.** Contribution of Cleome Gynandra (Cat's Whiskers) to food, nutrition and income for rural population. 2011/2012/2013 Funded by Dean's Grant University of Nairobi.

3. Strengthening Capacity for Marker Assisted Breeding for Common Bean in Eastern Africa, funded by Kirk house Trust, U.K. Period, 2009-2012.(Ongoing).

STUDENT SUPERVISION AND RESEARCH CONDUCTED

PHD PROGRAMMES COMPLETED

1. Nessie L. Role of Nematophagous fungi (*Pochonia chlamysporia* and *Paecilomyces lilacinus*) and soil organic amendments in integrated root knot nematode management in tomato (PhD degree awarded) 2010.
2. Kihurani A W. Factors associated with post-harvest deterioration of sweet potatoes (*Ipomea batatas*) roots in Kenya (PhD degree awarded)2004.

PHD PROGRAMMES ONGOING

1. Samuel A.Were: Studies on mode of action and effect of Vermicompost and Biochar amendments in control of soil borne diseases of Common Beans (PhD on-going)
2. Louisa I. Munyua: Studies on incidences of root rot diseases and Molecular Characterization of root rot pathogens in diverse bean based agro ecosystems in Western Kenya. (PhD ongoing)
3. Birithia R. K: Diversity, and characterization of Tospoviruses and management of Iris Yellow Spot Virus in onions. (PhD ongoing)
4. Mutua G. K: Impact of nutrient availability on the abundance and activity of *P. chlamydosporia* on Root Knot Nematodes (PhD on-going)

5. Mercy K. Bogori: Breeding common Bean For Disease Resistance in Kenya; Mapping, Introgressing and Selecting Disease Resistance QTL. Markers (PhD on-going)

M.Sc THESES COMPLETED

1. Wahome S.Wanjohi: Transfer and selection of multiple disease resistance to snap beans. 2011 (MSc degree Awarded)
2. Catherine N. Karanja: Integrated Management Strategies for Groundnut Rosette Disease. 2009 (MSc.degree awarded).
3. Mwalugha M.Stephen: Status of Grey leaf spot of Maize (*Zea mays L.*) and screening of maize germplasm for reaction to the pathogen *Cercospora zea-maydis*. 2009 (MSc. degree awarded).
4. Mary M. Mutembei: Causes of post-harvest losses and management of anthracnose in avocado. 2009 (MSc.degree awarded).
5. Benard O. Mware: Transmission and distribution of cassava brown streak virus in Eastern, Central and Western Kenya. 2009 (MSc. degree awarded)
6. Sarah M Gachu: Evaluation of Vegetable intercrops for Management of Thrips and Foliar Diseases in Onions (*Allium cepa L.*)2009 (MSc. degree awarded).
7. Scholastica L.M.: Management of Fusarium Head Blight of Wheat Through Host Resistance and Bio Control Agents 2009 (MSc degree award).

8. Kiplagat K W. Evaluation of advanced R-gene free potato genotypes from population B3 for late blight resistance, yield, cooking and processing qualities. 2008. (MSc degree awarded)
9. Riungu, G.M., Management of fusarium head blight of wheat and mycotoxin accumulation using antagonistic microorganisms. 2008 (M.Sc degree awarded.)
10. Augustine Musoni: Inheritance of Resistance to Fusarium wilt (*F. oxysporum f. sp. phaseoli*) and Breeding for multiple disease resistant and marketable climbing beans. 2008 (MSc degree awarded).
11. Muchiri F. N: Efficacy and rates of application of some fungicides and their mixtures and extracts of *Tagetes minuta* in the control of late blight of potato 2006 (Msc degree awarded).
12. Oduor H. Achieng: Fungal Pathogens and Mycotoxins associated with Maize ear rot 2005 (Msc degree awarded).
13. Makelo M Nafuala: Determination of Seed borne fungal pathogens of onion spread and control of purple blotch caused by *Alternaria porri* (Ellis). 2004 (Msc degree awarded).
14. Aginyah T. J: Reaction of *Ipomea batatas* (L) Lam Lines to *Alternaria* leaf spot and stem blight and effects of soil pH on disease severity. 2001 (Msc awarded).
15. Peter A. Ojiambo: Cultural studies and epidemiology of *Alternaria sasami* and effect of seed transmission and plantage on *Alternaria* leafspot severity of *Sesamum indicum* L. 1998 (Msc Awarded).

16. Were H. K.: Survey of potato leaf roll virus (PLRV), evaluation of some promising potato clones for resistance to PLRV and its vectors and comparison of virus elimination methods. 1996 (Msc awarded).
17. Kinyua Z. M: Casual agents of pyrethrum wilt and factors influencing the disease development and its management. 1995 (Msc awarded)
18. Ann Kingiri: Etiology and control of purple blotch in onions (*Allium cepa* L.) caused by *Alternaria porri*. 1993 (Msc awarded).
19. Kiprop'E.K: Etiology of Septoria leaf spot on cowpea (*Vigna unguiculata*) (L) walp and its interaction with some genotypes of cowpea and other food legumes and its chemical control. 1992. (Msc awarded).
20. Kwena P.O: Studies on epiphytotic population interactions of *Xanthomonascampestris* and *Xanthomonas manihotis* pv *cassavae* and evaluation of available cassava germplasm against cassavabacterial blight in Kenya. 1990 (MSc awarded).

M.Sc. THESES ONGOING

1. Joseph Orende: Breeding for Disease Resistance in Common Bean through Gene pyramiding and Phenotype (MSc on-going)
2. Miriam Kuloba: Evaluation of stored dry orange fleshed sweet potato chips with respect to fungal contamination and beta carotene (MSc on-going)

3. Njuguna S. Mwangi: Gamete selection for Multiple Disease Resistance in Mesoamerican Bean Genotypes and race Typing of Angular Leaf Spot Pathogen in Kenya (MSc on-going).
4. Atieno E. Ouma: Evaluation of combined effect of phosphonate fungicide and Host Tolerance to Potato Late Blight (MSc on-going).
5. Musyimi A. Saumu: Marker Assisted Gamete Selection for Breeding Large Seeded Common Beans with Multiple Disease Resistance in Kenya (MSc on-going).
6. Nandwa M. Kuboka: Effect of Temperature on the efficacy of *Metarhizium anisopliae* in management of western Flower Thrips in French Beans (MSc on-going).
7. Muthii T. kariuki: Quality and Health Status of Farm Saved Bean Seed (*Phaseolus vulgaris*) and Management of seed-borne disease (MSc on-going).
8. Kainyu D. Gitonga: Management of Root Knot Nematodes in French Beans Using Chemicals (MSc on-going).
9. Margaret Njambi: Effect of Tecto-triabendazole in the control of plant parasitic nematodes in Roses (Msc. on-going).

SCIENTIFIC PUBLICATIONS IN REFEREED JOURNALS:

1. Birithia, R., Subramanian, S., Villinger, J., Muthomi, J., **Narla, R.D.** and Pappu, H.R. (2012) First report of *Tomato yellow ring virus* (Tospovirus, Bunyaviridae) Infecting tomatoes in Kenya. *Plant Disease* 96, 1384
2. Scholastica Leah Musyimi, James Wanjohi Muthomi, **Rama Devi Narla**, John Maina Wagacha, 2012, Efficacy of Biological Control and Cultivar Resistance on *Fusarium* Head Blight and T-2 Toxin Contamination in Wheat *American Journal of Plant Sciences*, 2012, 3, 599-607 doi:10.4236/ajps.2012.35073. Published Online May 2012 (<http://www.SciRP.org/journal/ajps>) 599.
3. Gachu S.M. Muthomi J.W., **Narla R.D.**, Nderitu J.H., Olubayo F.M., Wagacha J.M., 2012, Management of thrips (*Thrips tabaci*) in bulb onion by use of vegetable intercrops *International Journal of AgriScience Vol. 2(5): 393-402, May 2012 www.inacj.com ISSN: 2228-6322© International Academic Journals.*
4. James W. Muthomi, Scholastica L. Musyimi, John M. Wagacha³, **Rama D. Narla**, 2012, Occurrence of *Fusarium* species and associated T2-toxin in Kenyan wheat Vol.3, No.1, 24-34 (2012) *Agricultural Sciences* doi:10.4236/as.2012.31005.
5. Birithia, R., Subramanian, S., Pappu, H.R., Sseruwagi, P., Muthomi, J. and **Narla, R.D.** (2011) First Report of *Iris yellow spot virus* in Onion in Kenya and Uganda. *Plant Disease* 95, 1195
6. Subramanian, S., Pappu, H.R., Birithia, R., Shem, O., Muthomi, J., Sseruwagi, P. and **Narla, R.D.** (2011). Diversity and distribution of *Iris yellow spot virus* infecting onions in Eastern Africa. *Phytopathology* 101:S172. Abstract
7. S.M. Wahome, P.M. Kimani, J.W. Muthomi, **R.D. Narla** and R. Buruchara, 2011, Multiple disease resistance in snap bean genotypes in Kenya *African Crop*

- Science Journal, Vol. 19, No. 4, pp. 289 - 302 2011, African Crop Science Society.
8. Nyankanga, R.O, Kiplagat, K.W, **Narla R.D**, Shibairo S.J, Kabira J.N and Landeo J.A. 2011, Early and late harvest agronomic performance and stability of R-free late blight potato genotypes. *Crop Improvement(In press)*.
 9. **Narla R.D.**, J.W. Muthomi, S.M. Gachu, J.H. Nderitu and F.M. Olubayo, 2011, Effect of Intercropping bulb onion and vegetables on purple blotch and downy mildew. *Journal of Biological Sciences* 11(1):52-57.
 10. Augustine Musoni, Paul Kimani, **R.D. Narla**, Robin Buruchara, James Kelly, 2010, Inheritance of Fusarium wilts (*Fusarium oxysporum f sp.phaseoli*) resistance in climbing beans. *African Journal of Agricultural Research*, vol5(5), pp.399-404.
 11. Mware, B., F. Olubayo, **R. Narla**, J. Songa, R. Amata, S. Kyamanywa and E.M. Ateka, 2010. First record of spiraling whitefly in coastal Kenya: emergence, host range, distribution and association with cassava brown streak virus disease. *Int. J. Agric. Biol.*, 12: 411–415.
 12. Mware B., **R.D. Narla**, R. Amata, F. Olubayo, J. Songa, S. Kyamanyua, and E. M. Ateka 2009 . Efficiency of cassava brown streak virus transmission by two whitefly species in coastal Kenya. *Journal of General and Molecular Virology* Vol.1 (4), pp. 040-045
 13. Muchiri F.N, **Narla R. D**, Olanya O.M,Nyankanga RO,. and Ariga S.,2009 Efficacy of fungicide mixtures for management of phytophthora infestans on potato.*Phytoprotection* (in press) 90(1) 19-29.

14. Mware, B.O, E. M Ateka, J. M Songa, **Narla R. D.**, F. Olubayo and R. Amata 2009. Transmission and distribution of Cassava brown streak virus disease in cassava growing areas of Kenya. *Journal of Applied Biosciences* 16: 864-870.
15. Makelo, M.N., **Narla, R.D.**, Mibey R.K. 2008. Leaf diseases of onion *Allium cepa l.*) in Kenya. *Int. J. Agric. Rural Development* 11(1): 1-13
16. Riungu, G.M., Muthomi, J.W., **Narla, R.D.**, Wagacha J.M. and Gathumbi J.K., 2008. Management of fusarium head blight of wheat and Deoxynivalend accumulation using antagonistic microorganisms. *Plant Pathology Journal* 7(1): 13-19.
17. Muthomi, J.W., Riungu, G.M., Ndung'u J.K., **Narla R.D.**, Gathumbi J.K. and Wagacha J.M., 2008, Head blight of wheat in Kenya and contamination of grain with mycotoxin producing *Fusarium* species. *J. Plant Science* 3(1) 52-60.
18. Makelo M.N., **Narla, R.D.**, Mibey R.K. and Makini, F.W. 2007.Effect of plant extracts on growth of *Alermaria porri (Ellis)* Cif and other fungal pathogens of onion. *J. Trop. Microbiol. Biotechnol.* 3(1): 7-11.
19. Shibairo, S.; Demo, P.; Kabira, J.M.; Gildermacher, P.; Gachango,E.; Menza, M.; Nyankanga, R.O.; Chemining'wa, G.N and **R.D. Narla** 2006. Effects of gibberellic acid (GA₃) on sprouting and quality of potato seed tubers in diffused light and pit storage conditions. *Journal of Biological Sciences* 6(4): 723-733.
20. Kihurani, A.W.; Shibairo, S.; Imungi J.K.; **Narla, R.D.**; Carey E.E. 2003. Susceptibility of sweet potato germplasm to rhizopus soft rot caused by *Rhizopus stolonifer* and *Rhizopus oryzae* in Kenya. *Muarik Bulletin*, 6: 30-34.

21. Ojiambo, P.S.; Mibey R.K.; **Narla R.D.** and Ayiecho, P.O. 2003. Field transmission efficiency of *Alternaria sesame* in sesame from infected seed. *Crop Protection*, 22: 1107-1115.
22. Were H.K, **Narla R.D.**, Nderitu J.H and Wiedemann H. L 2003. The status of Potato Leaf Roll Virus in Kenya. *Journal of Plant Pathology* 85(3), 153-156.
23. Anginyah T.J., **Narla R.D.**, Carey E.E. and Njeru R.W., 2001, Etiology of soil pH and sweet potato varietal reaction to *Alternaria* leaf petiole and stem blight in Kenya. *African Crop Science Journal*, Vol.9, No.1, 287-292.
24. Ojiambo P.S., **Narla R.D.**, Ayiecho P.O. and Mibey R.K. 2000. Infection of sesame seed by *Alternaria sesame* (Kawamura) Mohanty and Behera and severity of *Alternaria* leaf spot in Kenya. *International Journal of Pest Management*, 46(20), 121-124.
25. Ojiambo P.S., Ayiecho P.O., **Narla R.D.** and R.K. Mibey, 2000, Tolerance level of *Alternarias sesami* and the effect of seed infection on yield in sesame in Kenya *Expl Agric. Vol. 36*, 335-342.
26. Ojiambo, P.S.; Ayiecho, P.O.; **Narla, R.D.** and J.O. Nyabundi 1999. Effect of plant age on sesame infection by *Alternaria* leaf spot. *African Crop Science Journal*, 7: 91-96.
27. Ojiambo P.S., **Narla R.D.**, Ayiecho P.O. and Nyabundi J.O. 1998. Effect of infection level of sesame (*sesamum indicum l*). seed by *Alternaria sesami* on severity of *Alternaria* leaf spot. *Tropical Agricultural Research and Extension*, 1(2), 125-130.
28. Were H.K, **Narla R.D.**, Nderitu J.H and Kidanemarim H.M., 1996. Evaluation of some promising potato clones for tolerance to potato leafroll virus (PLRV) and

- for resistance to its vectors *Myzus Persicae* Sulzer and *Macrosiphum euphorbiae* Thomas. *Afr. J. Pl. Prot. Vol. 6, 57-66.*
29. **Rama Devi G** and Polasa H., 1987. Interference in toxin production among toxigenic *Aspergillus* species. *J., Stored Prod. Res. Vol. 23, No. 3, 149-150.*
 30. **Rama Devi G** and Polasa H., 1985. Inhibition of growth and toxin production in *Aspergilli* by Thymol. *Indian Journal of Microbiology, Vol. 25, No. 1, 1-3.*
 31. **Rama Devi G** and Polasa H., 1985, Diacetyl: A growth and toxin inhibitor of *Aspergilli*. *J. Stored Prod. Res. Vol 21, No.4, 195-197.*
 32. **Rama Devi G** and Polasa H., 1985, Inhibitory effects of bavistin (Carbendazim) on growth and mycotoxin production by *Aspergilli* grown on maize. *Pesticides, XII, 32-34.*
 33. **Rama Devi G** and Polasa H., 1984, Inhibition of growth and toxin production by Lauric acid derivatives in *Aspergillus* species. *Curr Sci., Vol. 53. No.15, 811-813.*
 34. **Rama Devi G** and Polasa H., 1982, Mycotoxins from fungi on maize. *Curr Sci., Vol. 51, No. 15, 751.*
 35. **Rama Devi G** and Pavgi M.S.1975, Sporidial discharge in *Malalotaenium brachiariae*. *Curr Sci. Vol. 44, No. 14, 513-514.*

**PAPERS AND ABSTRACTS PRESENTED IN PROCEEDINGS OF
CONFERENCES AND WORKSHOPS:**

1. Birithia, R., Subramanian, S., Villinger, J., Muthomi, J., **Narla, R.D.** and Pappu, H.R. 24th congress on International Congress of Entomology 17-25th August, 2012 in Daegu-Korea. Oral presentation on: “Resistance Screening of onion cultivars to Thrips and *Iris yellow spot virus*”.
2. Birithia, R., Subramanian, S., Villinger, J., Muthomi, J., **Narla, R.D.** and Pappu, H.R. 4th Conference on the International Working Group on Legume and Vegetable Viruses (IWGLVV) on 17-20th May, 2011 - Antequera, Málaga, Spain. Oral presentation on: “Competence of key thrips pests of onions in Kenya for vectoring *Iris yellow spot virus*”.
3. Birithia, R., Subramanian, S., Villinger, J., Muthomi, J., **Narla, R.D.** and Pappu, H.R. 10th Workshop on Sustainable Horticultural Production in the Tropics Dec 8 - 11th, 2010, JKUAT, Poster: “Distribution of tospoviruses, *Iris yellow spot virus* infecting onions in Kenya”.
4. Luambano, N., B.R. Kerry, J.W. Kimenju, **R.D. Narla** and J.W. Wanjohi, 2008. Screening of Locally Available Organic Materials for the Mass Production of a Biological agent, *Pochonia chlamydosporia* Used Against Root-knot Nematodes. Fifth International Congress of Nematology, 13-18 July 2008, Brisbane, Australia.
5. Kiprop, E.K., **Narla R.D.**, Mibey R.K. and Akundabweni L.M.S, 2007. Chemical control of Septoria leaf spot on cowpea (*Vigna unguiculata* (L.) walp.) in Kenya. African Crop Science Conference Proceedings, Vol. 8. pp. 823-826, ElMinia, Egypt.

6. Kiprop, E.K., **Narla, R.D.**, Mibey, R.K. and Akundabweni, L.M.S. 2004 Screening Cowpea (*Vigna unguiculata* (L.) Walp). Genotypes for Resistance to Septoria Leaf Spot in Kenya. Proceedings of the Fourth Workshop on Sustainable Horticultural Production in the Tropics, Department of Horticulture, Moi University, Eldoret, Kenya, 24th-27th November, 2004.
7. Kiprop E.K, **Narla, R.D.**, Mibey R.K and Akundabweni L.M.S.. Etiology of Septoria Leaf Spot of Cowpea (*Vigna Unguiculata* (L.) Walp.) in Kenya. Proceedings of the Third Horticulture Workshop on Sustainable Horticultural Production in the Tropics, 26th-29th November, 2003, Maseno University, MSU, Maseno, Kenya.
8. Kihurani A.W., Carey E.E. and **Narla R.D.**, 2000, First Report of black rot disease of sweet potato in Kenya. African Potato Association Conference Proceedings, Vol.5, 415-419.
9. Kinyua Z.M, **R.D. Narla**, and S.W. Waudu. Pyrethrum Wilt Caused by Fusarium Oxysporum in Kenya. 2nd Biennial Crop Protection Conference, NARL, 16-17th September 1998.
10. **Narla R.D.**; King'iri A.N., Kimani P.M., 1994. Etiology of onion purple blotch and certain cultural requirements of *Alternaria porri* in Proceedings of the First Eastern Africa Regional Alliums Workshop and Farmer's Field-Days, P. 69-72.
11. King'iri A.N., Kimani P.M., **Narla R.D.** and Mibey R.K., 1994. Transmission and control of purple blotch in onions in Proceedings of the First Eastern Africa Regional Allium Workshop and Farmer's Field-Days, 113-123.

TRIALS CONDUCTED AND TECHNICAL REPORTS SUBMITTED TO PEST CONTROL PRODUCTS BOARD (PCPB) OF KENYA ON THE FOLLOWING PEST AND DISEASE CONTROL PRODUCTS

1. Neem cake (neem extractive powder) on whiteflies, thrips, mites and nematodes infection and yield losses in tomatoes, 2004
2. Impact 125 sl (frutrialfol 125 g/l) on powdery mildew, ascocyta infection and yield losses in snow peas. 2006
3. Bionematone (*Paecilomyces lilacinus*) on nematode infection and yield losses in tomatoes, french beans and roses. 2007
4. Twigafos (Profenos 4 % + cypermethrin 4%) on Aphids, Thrips Diamond back moth, caterpillars, mites and white flies infection and yield losses in kales and tomatoes 2007
5. Amblytech C (*Amblyseius neoseiulus cucumeis*) on thrips and mites infection in carnation. 2007
6. Lambda star 5 % (Lambda cyhalothrin 5%) on Aphids, Thrips and white flies infection and yield losses in French beans 2007
7. Cyren 480 EC (*Chlorpyrifos* 480 G/L) on Aphids and Diamond back infection and yield losses in kales 2007
8. Tricel (*Chlorpyrifos* 480EC) on Aphids, Thrips and caterpillars infection and yield losses in French beans 2007
9. Biolep (*Bacillus thurengiensis var kurstaki*) on bollworm, aphids and thrips infection and yield losses in French beans, 2007
10. Nematech (*Steinernema feltiae*) on nematode infection and yield and quality losses in carnation. 2007
11. Nematox 40 % EC (*fenamiphos* 400g/l) on nematode infection and yield and quality losses in roses. 2007
12. Willosate (Glyphosate 360 SL) against weeds in non crop area 2007
13. Ascoris 48 % EC (*Chlorpyrifos*) nematode infection and yield losses in citrus 2007
14. Elthrin (Deltamethrin 2.5%) on Aphids, whiteflies and Thrips infection and yield

- losses in French beans 2008
15. Starthene (Acephate 97% DF) on Aphids and Thrips infection and yield losses in French beans 2008
 16. Biocatch(*vertivillium lecanii* 1.15 % WP) on Aphids, Thrips and white fly infection and yield losses in French beans, tomato and roses. 2008
 17. Bionematone (*Paecilomyces lilacinus*) liquid form on nematode infection and yield losses in tomatoes, french beans and roses. 2010-2011
 18. Mistress 72 wp (Cymoxanil 8% + mancozeb 64 %) against bean anthracnose infection and yield losses in French beans. 2010
 19. Lecatech (*Lecaninacillium lecanii*) and Beutech (*Beaurian bassiana*) against bean anthracnose infection and yield losses in French beans 2009
 20. Trivia (propineb + Floupicolide) on early and late blight of tomato and downy mildew of cucurbits. 2010
 21. Eloxin (polyoxin) on powdery mildew of roses. 2010-2012
 22. Tata Manic (Acetamiprid) on aphids, whiteflies, squash beetle, thrips and leaf miners on French beans ,tomato, brassicas and cucurbit. 2010
 23. Super Gro (Nonylphenol Ethoxylate) as surfactant with Fungicides and Insecticides. 2011
 24. Phytotech (Phytoseilus persimilis) against Red spider mites on Roses. 2012
 25. Estrap (4% Cartap hydrochloride) against thrips on Roses. 2012
 26. Affifen 10.8EC (Pyriproxifen 100g/l) against Aphids, Whiteflies and Thrips in Common bean

ONGOING TRIALS

1. Perfecto 175 SC (Imidacloprid 125g/l + Lambda-cyhalothrin) against Aphids, Thrips, Whiteflies and Caterpillars on Tomatoes. 2013
2. Cera Trap (Hydrolysed protein 5.5%) against Fruit flies on Mangoes. 2013
3. BacStop (Methyl eugenol) against Anthracnose on mangoes. 2013
4. Emerald, Presento, Presento Top, Loyalty, Millionair and Katerina on different pests and diseases.

PARTICIPATION IN WORKSHOPS/SEMINARS/CONFERENCES/SYMPOSIA NATIONAL

- 1989: Attended the first scientific conference and an annual general meeting of the Plant Pathology Society of Kenya, Nairobi.
- 1989: Attended a symposium on research and afforestation of Arid and Semi Arid Lands held at ICRAF, Nairobi.
- 1990: National workshop on fungal ecology
- 1994: Presented a paper in Regional Alliums Workshop.
- 1995: Attended a seminar on Pyrethrum wilt complex conducted by Pyrethrum Board of Kenya.
- 2002: Genstat for Agricultural Scientists.
- 2002: Biometry enhancement workshop.
- 2004: Workshop on Science and Technology Research Policy and Sustainable Development in Kenya.
- 2006: Training program on screening pesticides for their efficacy on different pests and diseases on various crops.
- 2006: Workshop on proposal and scientific writing, Nairobi, Kenya.
- 2006: Training course on The implementation of pesticide efficacy and MRL trials in Kenya conducted by Agrisearch UK LTD.
- 2007: Plant disease diagnostic technology workshop, Nairobi, Kenya.
- 2007: Training on Transformative Leadership and Results Based Management (RBM), University of Nairobi.
- 2007: Workshop on sustainable horticultural production in the tropics
- 2008: Training on Pedogogy, University of Nairobi.
- 2008: Participated in a workshop on Training Needs Assessment at the KEPHIS headquarters. Organized by Centre of Phytosanitary Excellence (COPE)
- 2009: Stakeholders Workshop for Curriculum Development, UNIDO, Kenya.
- 2009: The e-Learning Content Development Training, University of Nairobi.
- 2009: Training course on Phytosanitary systems for East and Central African region
- 2011: Participated as a resource person in Capacity building on Phytosanitary skills for increased regional Trade from 5th to 30th September 2011. At KEPHIS Nairobi.

INTERNATIONAL

- 1990: International workshop on Fungal Ecology, Hyderabad, India.
- 1991: Participated as a **resource person** in the International Training Program on the Identification of Plant Pathogens of Agricultural Importance.
- 1992: African Regional Symposium on Biotechnology for Development, Nairobi, Kenya.
- 1994: Participated as a **resource person** in International Training Course on Plant Pathogenic Fungi, conducted by CABI, Nairobi.
- 1995: Attended as a participant in International Symposium on Plant Molecular Biology and Biotechnology conducted by ICGEV, India.
- 1996: Participated as a **resource person** in the training Course on Taxonomy and Nomenclature of Fungi by CAB, Nairobi.
- 2000: Attended a convention on Biodiversity at UNEP headquarters Gigiri, Nairobi.
- 2003: Sixth Biennial African Crop Science Congress Nairobi, Kenya.
- 2004: Grain Milling Stakeholders Workshop, Kenya Bureau of Standards, Nairobi.
- 2008: CIAT and Kirk house Common Bean Meeting held in Hotel Africana, Kampala Uganda.
- 2010: Training Course on Phenotyping common Beans for Biotic Constraints in Eastern Africa. Organised by Kirk house Trust in Uganda.
- 2010: African Bean Consortium (ABC) Annual meeting 2010 hosted by Sokoine University of Agriculture. Tanzania.
- 2011: Training Course on the identification of races of diseases of common bean in Durban South Africa. Organized by PABRA, SABRN and ARC

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

1. Microbiologists Society of Kenya
2. Association of African Crop Science Society (AACCS).
3. Horticultural Association of Kenya (HAK).
4. Plant Pathology Society of Kenya (PPSK).
5. Kenya Professional Association of Women in Agriculture and Environment (KEPAWAE).

NATIONAL CONTRIBUTION & COMMUNITY DEVELOPMENT

1. Participate and help in conducting seminars on Education in Human Values (EHV) to teachers of various schools in Kenya.
2. Member of the Board of Management of Sathya Sai School, Kisaju Kenya, which gives free education for destitute and marginalized children
3. Fundraising activities for children sponsorship in the Sathya Sai School Kisaju, Kenya
4. Active participant in the Sai Net project, providing free mosquito nets in malaria infected areas of Kenya in conjunction with Ministry of Health, Govt. of Kenya.

REFEREES

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