



Name:

DR. MOHAN KUMAR BISWAS

Designation:

Assistant Professor, Plant pathology

Department/Institute/University:

Department of Plant Protection, Unit of Plant Pathology, Institute of Agriculture, Palli Siksha Bhavana(PSB), Visva-Bharati, Sriniketan, Birbhum, West Bengal, India, Pin-731236**Email. mohankumar.biswas@visva-bharati.ac.in
mkb.psb@gmail.com**

Permanent Address:

**“Sweety ”, Andrews Palli (West)
Santiniketan, Birbhum, West Bengal,
Pin-731235**

Date of Birth:

08.06.1967Sex (M/F): **M**Nationality: **Indian****Education (Matriculation onwards & Professional Career)**

SN		Name of the Board/University	Year of Passing	Division/Grade	Field of Study
1	H.S.Sc.	Board of Sec.Edu.Bhopal, M.P.,India	1983	First	Biology
2	B.Sc.(Ag.)	Indira Gandhi Krishi Visva Vidyalaya, Krisak Nagar,Raipur, Chhattishgarh, 492012, India	1989	First	Agriculture
3	M.Sc.(Ag.)	Indira Gandhi Krishi Visva Vidyalaya, Krisak Nagar,Raipur, Chhattishgarh, , 492012,India	1991	First	Pl. Pathology (Spe. Mushroom science)
4	Ph.D.(Ag.)	Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, West Bengal-741 252, India	1998	-	Pl. Pathology (Spe. Plant Virology)
5	MBA(HRM)	Indira Gandhi National Open University, Maidan Garhi, New Delhi, 110068, India	2010	Second	Human Resource Management
6	NET	ICAR	2007	-	Plant Pathology

Position and Employment (Starting with the most recent employment)

SN	Institution	Position	From	To
1	Visva-Bharati, Santiniketan, West Bengal,731235	Assistant Professor(Stage-III)	Sept'2013	Onward
2	Visva-Bharati, Santiniketan, West Bengal,731235	Assistant Professor(Stage-II)	Sept'2008	Sept'2013
3	Visva-Bharati, Santiniketan, West Bengal,731235	Lecturer , Plant Pathology	Sept,2004	Sept, 2008
4	Andrew Yule & Co. Ltd.(A Govt. of India Enterprise ,Yule House ,Kolkata-700001	Assistant Manager (production)	Sep,1995	Oct., 2004

Area of Specialization :

Master Degree : **Mycology (Mushroom science)**

Title of Thesis : “Exploring the methods for increasing higher Biological Efficiency of Oyster Mushroom (*Pleurotus florida*) at Raipur”

Ph.D . Degree: **Plant Virology**

Title of Thesis: “ Studies on some important potato virus diseases (PVX,PVY & PLRV) in the plains of West Bengal ”

Position and honors**Honors/Awards**

1. State Scholarship for Higher Secondary education during the year 1980 to 1983
2. Research Fellowship at Dept. of Plant Pathology, IGKV, Raipur, for research during 1992-1993
3. University Research Scholarship at BCKV, Mohanpur, Nadia, W.B, during Ph.D. from 1993-1995
4. Award and trophy from NCMRT, Solan ,H.P. for **best performance in training on Mushroom Cultivation**,
5. Received “**Scroll of honour**” from **Indian PhytoPathological Socieity**, New Delhi during 2009 and 2012
6. Received **Best poster award and certificate** in First International conference on Bio Resources and Stress Management , 6-9 February,2013 ,Kolkata, India for the paper entitled “**Use of spent mushroom substrate with microbial inoculants as organic manure**”.
7. Received **Best paper award and Gold medal** in international conference, ICOAF-2014, Colombo, Srilanka for the paper entitled “**Techniques for increasing the biological efficiency of paddy straw mushroom (*Volvariella volvacea*) in eastern India**”

Professional Experience and Training:**A. Working Experience :**

1. **More than ten years of experience (from 7th September 2004 to till date) in Teaching and Research**, working as an Assistant Professor (Plant Pathology) stage-III in the Department of Plant Protection, Institute of Agriculture, PSB, Visva-Bharati, Sriniketan, W.B.
2. **Nine years of experience in Administration**, worked as an executive in Andrew Yule & Co. Ltd. (A Government of India Enterprise) Tea Division, (from 7th September’1995 to 6th September 2004) looking after the overall Plant Protection activities in tea garden.

B. Other Experience relating to research field:

1. Active participation in **Aerial Trapping Project for insect vector** conducted by **NRI.,U.K.** and Department of Plant Pathology, Bidhan Chandra Krishi Viswa Vidlayaya, Nadia ,W.B.
2. Active participation in training programme conducted by DRDA, Raipur and Department of Plant Pathology, I.G.K.V.V.,Raipur,M.P. for training of village women on **Mushroom Cultivation technology**.

C) Training Course /Winter School attended/Refresher Course

1. ICAR Training programme on “**Mushroom Production Technology for Entrepreneurs**” from NRCM, Solan, H.P., India,9 days (23rd April to 2nd May 1996).

2. ICAR sponsored Advanced Training Course on “ **Crop Disease Management: Needs and outlook for Transgenics, Microbial Antagonist and Botanicals**’. Organized by Centre of Advanced Studies in Plant Pathology , G.B.Pant University of agriculture & Technology, Pantnagar,263145, Udham Singh Nagar ,U.T. 21 days (March21-April 10,2006).
3. ICAR sponsored Advanced Training Course on “**Detection of Plant pathogenic Bacteria: Symptomatology to Advanced Techniques**” Organized by Division of Plant Pathology IARI, Pusa, New Delhi, 100011, 21 days (Jan 14-‘Feb.’03, 2008).
4. UGC sponsored 9th Refresher Course in **Agricultural Sciences**. Organized by ASC- Banarus Hindu University, Baranasi, U.P, 21 days (27.01.2011 to 16.02.2011)
5. UGC sponsored 4th Refresher Course in **Life Science**. Organized by ASC-The University of Burdwan, Burdwan,W.B., 21 days(November 03 – 23,2012).
6. Training on “**Developing Human Resource for Teaching Core Course in Plant Nematology**’. Organized by AAREM and Department of Nematology, CCS Haryana Agricultural University,Hisar,Haryana, 13days Dec 23, 2013 – Jan 4, 2014.

D) Thesis guided/Supervised :

Completed : M.Sc (Ag.) – 07, MBA -1, Ph.D -02

Continuing: M.Sc. (Ag.)-02, Ph.D -08

E) Research project undertaken/ongoing :

1. Evaluation of Newer fungicides molecules against Late Blight of Potato and Stem rot (*Rhizoctonia* spp.)”sponsored by INDOFIL CHEMICALS Ltd, act as a Co-PI, duration –one year.
2. Bio+ Phytotoxicity Evaluation of some Herbicides and Fungicides in Different Crops Against Different Weeds and Disease Scenario, act as a Co-PI. Funding agency- Syngenta India Ltd, duration -2 years.

F. International Exposure/ partnership/collaborative research:

1. Visited **UNESCO, Paris, France** and represented from India in the International conference “**Botanists of the Twenty-first Century: Roles, Challenges and opportunities**” held from 22 to 25 September 2014 at Paris,France.
2. Visited **Colombo, Srilanka for International Conference on Agriculture and Forestry- 2014 (ICOAF 2014) to be held at Colombo, Sri Lanka, on 10th and 11th June 2014.**
3. Visited **Dhaka, Bangladesh** and presented research paper in 5th International Botanical Conference on “Climate change and sustainable development” held at from 9-11th December, 2011.

Publications:

A. Book Chapter:	06
B. Research Papers:	
i) Mushroom Science-	09
ii) Plant Virology -	11
iii) Fungal pathology & others	07
C) Extension articles:	04

D) Abstract in Proceedings of the Symposia/conference/seminar

International : 13
National : 27

E) Symposium/Conference attended:

International: 12
National): 26

F) National Conference/Symposium organized

Organised National seminar on “Plant Microbe Interaction and Crop Health Management” act as an **Organizing Secretary**, held at Department of Plant Protection, PSB, Visva-Bharati from 6-7th Oct., 2012.

Selected publications**Research Journal****A) Research Publication in Journals (Mushroom Science) :**

- i) **M. K. Biswas** (2014). Microbial contaminants in oyster mushroom (*Pleurotus ostreatus*) cultivation their management and role of meteorological factors. *Proceedings of the 8th International Conference on Mushroom Biology and Mushroom Products (ICMBMP8)*, pp -568-575.
- ii) **M. K. Biswas** (2014). Oyster mushroom cultivation: a women friendly profession for the development of rural west bengal. *International Journal of Bio-resource and Stress Management* 2014, **5**(3): pp-432-435
- iii) **M. K. Biswas** and Mrinmoy Layak (2014). Techniques for increasing the Biological Efficiency of Paddy Straw Mushroom (*Volvariella volvacea*) in Eastern India. *Food Science and Technology* **2** (4): pp-52-57
- iv) D.K. Debata, **M.K. Biswas** and K.B. Mohapatra (2014). Management of competitor fungi in paddy straw mushroom(*Volvariella volvaceae*) beds. *Journal of Plant Protection and Environment* **11**(1): pp-98-102
- v) **M. K. Biswas** (2014).Cultivation of Paddy straw Mushrooms (*Volvariella volvacea*,) in the Lateritic Zone of West Bengal-A Healthy food for Rural People. *International Journal of Economic Plants* 2014, **1**(1):043-047
- vi) **M.K.Biswas** and Sanjeeb Kuiry (2013).Yield performance of different species of oyster mushroom (*Pleurotus* spp.) under the Agro-ecological condition of Lateritic zone of West Bengal. *Int .journal of Bio-resources and Stress Management* **4**(1) pp-043-046
- vii) Payal Ghosh and **M.K. Biswas** (2012) Effect of interaction of various nitrogenous and lingo-cellulosic amendments on biomass production of *Pleurotus florida*. *Int. journal of Bio-resources and Stress Management* **3**(4) pp-437-439.
- viii) C.S Shukla and **M.K.Biswas**,(2000). Evaluation of different techniques for oyster mushroom cultivation. *Journal-of-Mycology-and-Plant-Pathology*.**30**(3): pp-431-432
- ix) **M.K. Biswas** , C.S. Shukla and S.M. Kumar,(1997).Methods for increasing Biological Efficiency of Oyster Mushroom (*Pleurotus florida*) in Madhya Pradesh. *Advances in Plant Science*.**10**(1):pp-69-74.

B) Research Publication in Journals (Plant Virology) :

- i) P.Pal, **M.K.Biswas**, D. Dasgupta and Pinki Pal (2013). Studies on host resistance of mungbean against mungbean yellow mosaic virus in the agro-ecological condition of Laterite zone of West Bengal, *The BioScan* 8(2).pp-583-587
- ii) P.Pal, **M.K.Biswas** and B. Dasgupta,(2011). Effect of intercropping on the incidence of mungbean yellow mosaic disease (YMD) caused by Mungbean Yellow Mosaic virus. *J. Botan. Soc.of Bengal* **65**(2),pp-179-182
- iii) P.Pal, **M.K.Biswas** and B. Dasgupta,(2011). Epidemic development of mungbean yellow mosaic disease caused by Mungbean Yellow Mosaic virus *J. Botan. Soc.of Bengal* **65**(2),pp-179-182
- iv) **M.K. Biswas**, P.S.Nath. ,B.K.De and Md. Mohasin,(2006).Reaction of potato varieties hybrids against PVX,PVY and PLRV diseases in the plains of West Bengal *Journal of Interacad*,10(3): 447-448.
- v) **M.K. Biswas**, B.K.De and P.S.Nath.(2005). Rate of spread of PVX,PVY and PLRV disease to potato varieties . *Annals of Plant Protection Science*,**13** (1) : pp-175-178 .
- vi) **M.K. Biswas** and H. Chatterjee (2005) Influence of abiotic factors on the population fluctuation of potato virus-vector in the plains of West Bengal, *Journal of Plant Protection and Environment* ,**2**(1): pp-147-153
- vii) **M.K. Biswas**, P.S.Nath. ,B.K.De and Md. Mohasin,(2004) Assesment of yield losses due to mild mosaic(PVX),severe mosaic (PVY),and leaf roll (PLRV) disease of potato in the plains of West Bengal . *Journal of Mycopathological Research* **42**(1):pp-119-122.
- viii) **M.K. Biswas**, P.S.Nath. ,B.K.De and Md. Mohasin,(2004). Influence of different weather factors on the population build up of vectors of potato virus. *Annals of Plant Protection Science*, **12** (2) ;352-355 .
- ix) **M.K. Biswas**, P.S.Nath. ,B.K.De and Md. Mohasin,(2004). Effect of application of insecticides on incidence of aphids and spread of virus disease of potato in the plains of West Bengal . *Journal of Interacad*. **8**(1): pp -27-32.
- x) **M.K. Biswas**, P.S.Nath. ,B.K.De and Md. Mohasin,(2003).Weeds (*M.alba*, *N. slumbazinifolia* and *S. torvum* as a source of potato virusX from West Bengal,India. *Environment and ecology* . **21**(4): pp -978-980.
- xi) **M.K. Biswas**, B.K.De and Md. Mohasin,(2000). Relationship between vector pressures (*Myzus persicae* and *Aphis gossipii*) and spread of PVY and PLRV diseases in the plains of West Bengal. In.*Potato Global Research & Development* (Eds. S.M.Pal Khuran;G.S.Shekhawat; B.P. Singh and S.K. Pandey). *Proceedings of Global Conference on potato*, December 6-11'1999, New Delhi, Vol.**1**, pp- 483-486.

C) Research Publication in Journals: Fungal Pathology and other Plant protection related topic):

- i) **M.K.Biswas** and S.B. Biswas (2014).Indigenous knowledge practice by the farmers of Lateritic belt of West Bengal in crop protection. *Research journal of Agricultural Science*, **5** (5),pp-930-933.

- ii) Anuj Mamgain, **M .K. Biswas** and Narottam Dey (2014). Host Resistance of Genotypes of Rapeseed and Mustard against *Alternaria* blight Under the Agro-ecological Conditions of Undulating Red and Lateritic Belt of West Bengal. *Int.l Journal of Adv. Research* , 2(10): pp -989-996. 1.659
- iii) Anuj Mamgain, **M .K. Biswas** and Narottam Dey (2014). Prevalence of *Alternaria* bight of rapeseed-mustard in the Undulating Red and Lateritic zone of West Bengal. *J. of Che., Bio., and Phy., Sciences* , 4 (4); pp-3367-3371- ISI-1.082
- iv) **M. K. Biswas** (2013). Influence of environmental factors on the development of *Alternaria* blight of mustard caused by *Alternaria brassicae*. *The Ecoscan: Special issue, Vol.IV:pp-139-144.*
- v) Soma Bhattacharjee (Biswas), **M.K.Biswas** and Anindita Saha (2013). Role of women in Tea Gardens: A case study in Doors. *Int .journal of Bio-resources and Stress Management* 4(1)pp-077-083
- vi) **M.K. Biswas**, A. Ghosh and S. Biswas (2009) Performance of plant extracts and chemicals against *Alternaria* leaf blight of mustard caused by *Alternaria brassicae*. Abstract, *J. Mycol Pl Pathol* . **39** (3) , pp-568-569.
- vii) **M.K. Biswas** and A Ghosh (2012). Relationship between environmental factors and development of *Alternaria* blight of mustard caused by *Alternaria brassicae*. Abstract, *J. Mycol Pl Pathol.vol.* **42**(1), pp-113-114.