SUMMARY OF CURRICULUM VITAE
DR. MD. ABDUL LATIF

1. **Qualifications** : BSc (Ag) (BAU), MS (BSMRAU), PhD (UPM)
2. **Specialization** : Plant Pathology and Molecular Biology
3. **Date of Birth** : 30 December 1965
4. **Nationality** : Bangladeshi
5. **Marital Status** Married
6. **Address (Office)** : CSO and Head,
   Plant Pathology Division
   Bangladesh Rice Research Institute
   Gazipur-1701, Bangladesh

7. **University Education:**

Degree obtained	University	Year	Area of Specialization
Doctor of Philosophy	Universiti Putra Malaysia (UPM)	2001	Molecular Biology
Master of Science	BSMR Agricultural University (BSMRAU)	1992	Plant Pathology
Bachelor of Agricultural Science	Bangladesh Agricultural University (BAU)	1987	Agriculture

8. Employment experiences:

Employer	Designation and grade	Duration	Major areas of research
BRRI, Gazipur, Bangladesh	Chief Scientific Officer and Head	Till to date	Plant Pathology and Molecular Biology
UPM, Malaysia	Senior Research Fellow	May 2012 April 2014	Molecular Plant Pathology, and marker assisted selection for varietal improvement of rice
UPM, Malaysia	Post-doctoral Researcher	Feb. 2010- January, 2012	Molecular Plant Pathology, and marker assisted selection for varietal improvement
BRRI, Gazipur, Bangladesh	Principal Scientific Officer	2006 to 2014	Plant Pathology and Molecular Biology
BRRI, Gazipur, Bangladesh	Senior Scientific Officer	1999 to 2006	Plant Pathology and Molecular Biology
BRRI Gazipur, Bangladesh	Scientific Officer	1993 to 1999	Plant Pathology
IPSA, Gazipur, Bangladesh	National Science and Technology fellow	1991 to 1992	Plant Pathology

9. Interest on areas to conduct basic and advanced research

a. Varietal improvement of rice against major diseases through marker assisted selection.
b. Lingkage and QTL mapping of biotic stresses and fragrance of plants.
c. Gene pyramiding of rice disease resistance
d. Studies on gene expression in plants, pathogens and insects
e. Studies on poupulation genetics and inheritance pattern of plant, pathogens and Inscets
f. Identification of biotypes, pathotyoes or physiological races of insect and pathogens using differential systems and molecular approaches
g. Studies on genetic diversity of plants, pathogens and insects based on phenotypes and molecular markers.
h. Studies on cryptic and sibling species based on molecular and host-plant Relationship
i. Integrated pest management
j. Studies on host-plant interaction with pathogens
k. Sustainable rice disease management through nanoparticles

Above all areas are relavant to my scientific articles published in high impact factor journals

10. Supervision of post-graduate students:

National
Completed: 13
MS = 12 (as research supervisor)
PhD= 1 (as co-supervisor)
On-going: 4
PhD = 2 (as co-supervisor) and MS = 2 (as research supervisor)

International
Completed: 18
MS = 9 (2 as chairman and 7 as member)
PhD = 9 (as member)

11. **Mentoring of post-doctoral fellows:**
Completed: 04

12. Research/project activities & grants received: 21

Completed: 18
On-going: 3

Project leader of 4 projects, Project Director of 1 project, Principal investigators/Co-researchers of 16 projects

13. Publications:

Journal publication: 171
Citation Index journal (International Impact factor journal): 127
Index and non-Index national and international journal: 44
National and International project reports: 09
Book Chapter: 04
2 in Springer nature publications, 1 in Greenleaf Publishing in association with GSE Research, Brisbane, Australia and another in UPM press, Malaysia
Booklet: 07

Proceedings/Abstracts of National and International conference/seninars: 54
International Conferences/Seminars: 50
National Conferences/Seminars: 04
Bulletin and Folder for technology dessimination: 11

14. Award received (national/International): 13

Academic award: 2
MPOB best publication award: 2
Research and innovation award: 9

Among them Dr. **Latif** won National Professor Innas Ali Gold Medel Award 2021 from BAS for his outstanding research acheivements in biological science.

15. Research leadership and contribution to nation, Institute and society:

Leading in the research field of Plant Pathology to increase rice productivity, as committee members of the professional society, expert reference, invited speaker, book editor, referee and member of different organizing committees.

16. Professional affiliation:

a) Life Member of the Ecological Society of Bangladesh
b) Life member of the Bangladesh association of Biotechnology and Genetic Engineering (BABGE),
c) Member of the Genetics Society of Malaysia
d) Life Member of the Phytopathological Society of Bangladesh
e) Member of the Botanical Society of Bangladesh
f) Member of the Crop Science Society of Bangladesh
g) Member of the Bangladesh Association of Advancement of Science, Bangladesh
h) Member, National Variety Evaluation Committee,
i) Member, Krishibid Institution Bangladesh
j) Member, Bangladesh bioinformatics and computational biology association

17. Scientific experiences and participation in seminars and symposia in home and abroad:

i. Received post-doctoral fellowship on “gene pyramiding of rice brown planthopper and bacterial blight resistance through marker assisted selection” from February 2010 to January, 2012 in UPM, Malaysia.

ii. Conducted research as a senior research fellow on “development of blast resistant rice varieties through molecular marker assisted selection” from May 2012 to April, 2014 in UPM, Malaysia.

iii. Received special training on marker assisted breeding in Bangladesh Rice Research Institute in collaboration with IRRI from 18-27 November, 2008

iv. Received training on Introduction to new developments in GxE analysis and interpretation of results in Bangladesh Rice Research Institute in collaboration with IRRI from 17-29 August, 1996.

v. Participation of workshop on Participatory Variety Selection (PVS) and Participatory Plant Breeding (PPB) from 11-12 October, 2001.

vi. Participation of workshop towards establishing property rights of BRRI released varieties from 17-18 March, 2003.

vii. Participation and paper presented on **"**Evidence of sibling species in brown planthopper, *Nilaparvata lugens* complex" presented in 5th International genetics symposium and 3rd International rice fuctional genomics symposium, 19-23 November, 2005, Manila, Philippine

viii. Participation and paper presented on **"**Development of a biological species in *Nilaparvata lugens* complex: An evolution" presented in 2nd International Rice Congress, 9-13 October, 2006, New Delhi, India.

ix. Participation and paper presented on **"**Inheritance and association of malathion resistance in brown planthopper, *Nilaparvata lugens*." Presented in Fifth International Conference on Plant Protection in the tropics, 15-18 March 1999, Kuala Lumpur, Malaysia

x. Participation and paper presented on **"**Verification of components of the system of rice intensification (SRI) and comparison with best conventional management practices in Bangladesh." Presented in World Rice Research Conference, 5-7th November, 2004, Tsukuba, Japan.

xi. Participation and paper presented on "Screening of rice genotypes and management of ufra disease of rice". Presented in "International Conference on Emerging Issues on Research and Development, April 4-6, 2007, Kathmandu, Nepal.

xii. Paper presented and participate in Annual meeting and planning workshop of project Leveraging Diversity for Ecologically Based Pest Management (VERDE): Smart deployment of resistance genes and ecological engineering to prevent rice yield loss and reduce pesticide dependency." held on 27-28 august, 2019 in Phnom Penh, Cambodia.

xiii. Paper presented and participate in International Rice Congress (IRC) held on 15-17 October, 2018 in Singapore.

xiv. Paper presented and participate in Annual review and planning workshop of the ICAR-IRRI collaborative project "Stress tolerance rice for Africa and South Asia (STRASA)" held on 30 April -03 May, 2018, in New Delhi, India.

xv. Paper presented and participate in Inception meeting of project Leveraging Diversity for Ecologically Based Pest Management (VERDE): Smart deployment of resistance genes and ecological engineering to prevent rice yield loss and reduce pesticide dependency." Held on 3 – 4 April, 2018, in Phnom Penh, Cambodia

xvi. Paper presented and participate in Workshop for Blast Research Network and 7th International Rice Blast Conference held on 09-14 October 2016 in Philippines

xvii. Paper presented and participate in International consultation workshop on wheat blast held on 26 – 27 july, 2016 in Kathmandu, Nepal

xviii. Paper presented and participate in 6th International Conference on Plant, Pathogens and People-Challenges in Plant Pathology to benefit humankind" held on 23-27 February in New Delhi, India

xix. Paper presented and participate in Annual meeting for the blast research network for stable rice production and the workshop for blast research network for stable rice production held on 27 September- 01 October 2015 in Kunming, China.

DETAILED CURRICULUM VITAE

I. PERSONAL DETAILS

Full Name:	MD. ABDUL LATIF
Position:	Chief Scientific Officer and Head
Department/Divison:	Plant Pathology Division Bangladesh Rice Research Institute
Current Address	Plant Pathology Division Bangladesh Rice Research Institute Gazipur-1701, Bangladesh
Email:	alatif1965@yahoo.com
Fax:	+88-029261110
Handphone:	+88-01715034095
Nationality:	Bangladeshi
Date of Birth:	30th December 1965
Field of Specialization:	Plant Pathology and Molecular Biology (H-Index=36 google scholar, 24 scopus, 32 researchgate)
Web sites for publication informations:	Scopus Author ID: 22980446000 www.**researchgate**.net/profile/**Latif**_A http://scholar.google.com.my/citations?user=Md3jEaoAAAAJ&hl=en

Interest on areas to conduct research:	a. Varietal improvement of plants against rice diseases through conventional breeding and marker assisted selection. b. Gene pyramiding of disease resistance c. Lingkage and QTL mapping of biotic stresses d. Integrated pest management e. Studies on gene expression in plants, pathogens and insects f. Studies on poupulation genetics and inheritance pattern of plant, pathogens and inscets g. Identification of biotypes, pathotyoes or physiological races of insect and pathogens using differential systems and molecular approaches h. Studies on genetic diversity of plants, pathogens and insects based on phenotypes and molecular markers. i. Studies on cryptic and sibling species based on molecular and host-plant relationship j. Studies on host-plant interaction with pathogens and insects k. Sustainable rice disease management through nanoparticles **Above all areas are relavant to my scientific articles published in high impact factor journals**
Language:	Bangla, English, Bahasa Malaysia, Urdu, Arabic (Poor)

II. ACADEMIC QUALIFICATIONS

Qualification obtained	Institution	Year obtained	Area of Specialization
Doctor of Philosophy (PhD)	Universiti Putra Malaysia (UPM)	2001	Molecular Plant Plant Pathology and Molecular Biology
Master of Science	Bangladesh Agricultural University (BAU)	1992	Plant Pathology
Bachelor of Agricultural Science	Bangladesh Agricultural University (BAU)	1987	Agriculture (Plant Pathology, Plant Breeding and Genetics and Entomology)

III. EMPLOYMENT EXPERIENCES

Employer	Designation and grade	Duration	Major areas of research
BRRI, Gazipur, Bangladesh	Chief Scientific Officer and Head	Till to date	Plant Pathology and Molecular Biology
UPM, Malaysia	Senior Research Fellow	May 2012 April 2014	Molecular Plant Pathology, and marker assisted selection for varietal improvement of rice
UPM, Malaysia	Principal Post-doctoral Researcher	Feb. 2010- January, 2012	Molecular Plant Pathology, and marker assisted selection for varietal improvement
BRRI, Gazipur, Bangladesh	Principal Scientific Officer	2006 to 2014	Plant Pathology and Molecular biology
BRRI, Gazipur, Bangladesh	Senior Scientific Officer	1999 to 2006	Plant Pathology and Molecular biology
BRRI Gazipur, Bangladesh	Scientific Officer	1993 to 1993	Plant Pathology
IPSA, Gazipur, Bangladesh	National Science and Technology fellow	1991 to 1992	Plant Pathology

IV. SCIENTIFIC EXPERIENCE AND TRAINING

Place of training/organization	Name of training/certificates	Duration	Grade
Universiti Putra Malaysia, 43400UPM, Serdang, Selangor, Malaysia	Development of blast resistant rice varieties through molecular marker assisted selection	May, 2012 to April, 2014	Satisfactory
Universiti Putra Malaysia, 43400UPM, Serdang, Selangor, Malaysia	Gene pyramiding of rice brown planthopper and bacterial blight resistance through marker assisted selection	February 2010 to January, 2012	Satisfactory
Bangladesh Rice Research Institute (BRRI) Gazipur-1701, Bangladesh (In collaboration with IRRI)	Marker assisted Breeding for Bangladesh	18-11-2008 to 27-11-2008	Satisfactory
Bangladesh Rice Research Institute, Gazipur-1701, Bangladesh	Rice production, Applied Research, Communication and Administration	03-12-1994 to 31-1-1995	A
BRRI, Gazipur-1701, Bangladesh	Participatory workshop towards establishing property rights of BRRI released varieties.	17-03-2003 to 18-03-2003	Satisfactory
Bangladesh Rice Research Institute, Gazipur-1701, Bangladesh	Introduction to new developments in GXE analysis and interpretation of results.	17-8-1996 to 29-8-1996	Satisfactory

BRRI Regional Station, Comilla, Bangladesh	Participation of workshop on Participatory Variety Selection and Participatory Plant Breeding	11-10-2001	Satisfactory
Bangladesh Rice Research Institute, Gazipur-1701, Bangladesh	Identification, sampling and data collection of rice sheath blight disease complex	13-10-01 to 15-10-01	Satisfactory
Directorate of Agricultural Extension, Comilla, Bangladesh	Development Communication in Agriculture	12-5-02 to 13-5-02	Satisfactory
Rural Development Academy, Bogra, Bangladesh	Project Cycle Management	9-9-02 to 11-9-02	Satisfactory
BRRI Gazipur and Regional Station, Comilla, Bangladesh	Success Case Replication	29-06-03 to 06-07-03	Satisfactory
Bangladesh Agricultural Research Council, Dhaka, Bangladesh	Technical Report Writing and Editing	10-12-2007 to 13-12-2007	Satisfactory
Bangladesh Academy for Rural Development	Administrative and Financial Management	8-03-2008 to 21-03-2008	Satisfactory
BARC, Dhaka, Bangladesh	Monitoring & Inspection of Confined Field Trial of Transgenic Crops, Bangladesh	03-06-2008 to 04-06-2008	Satisfactory
Bangladesh rice research institute, Cabinet Division & a2i Programme, ICT Division	Two day long "Mentoring" workshop	30- 06-2019 to 01-07-2019	-

V. PARTICIPATION IN INTERNATIONAL SEMINARS AND SYMPOSIA

1. Paper presented on **"**Evidence of sibling species in brown planthopper, *Nilaparvata lugens* complex." In 5th International genetics symposium and 3rd International rice fuctional genomics symposium, 19-23 November, 2005, Manila, Philippine.
2. Paper presented as an invited speaker on "Development of durable blast, bacterial blight and Brown planthopper resistant varieties through marker assisted selection: Concept of differential systems and pgysiological races or biotypes." In first Plant Breeding Seminar, 3-5 July, ABI Serdang, Selangor, Malaysia.
3. Paper presented on "Development of a biological species in *Nilaparvata lugens* complex: An evolution." In 2nd International Rice Congress, 9-13 October, 2006, New Delhi, India.
4. Paper presented on "Verification of components of the system of rice intensification (SRI) and comparison with best conventional management practices in Bangladesh." In world Rice Research Conference, 5-7th November, 2004, Tsukuba, Japan.
5. Paper presented on "Inheritance and association of malathion resistance in brown planthopper, *Nilaparvata lugens*." In fifth International Conference on Plant Protection in the tropics, 15-18 March 1999, Kuala Lumpur, Malaysia.
6. Paper presented on "Biodiversity of ufra and blast resistant genotypes using VNTR-PCR and SSR-PCR DNA fingerprints" In international Conference on Biotechnology" June 7-8, 2008, BARC, Dhaka, Bangladesh.

7. Paper presented on “Screening of rice genotypes and management of ufra disease of rice”. In international Conference on Emerging Issues on Research and Development, April 4-6, 2007, Kathmandu, Nepal.
8. Participated and paper presented on “Annual meeting for the blast research network for stable rice production and the workshop for blast research network for stable rice production” in Yunan Agricultural University, China, 27th September to 1st October, 2015.
9. Participated in IPS 6th International Conference on “Plant, Pathogens and People” New Delhi, India, Feb. 23-27, 2016.
10. Paper presented and participate in Annual meeting and planning workshop of project Leveraging Diversity for Ecologically Based Pest Management (VERDE): Smart deployment of resistance genes and ecological engineering to prevent rice yield loss and reduce pesticide dependency.” held on 27-28 august, 2019 in Phnom Penh, Cambodia.
11. Paper presented and participate in International Rice Congress (IRC) held on 15-17 October, 2018 in Singapore.
12. Paper presented and participate in Annual review and planning workshop of the ICAR-IRRI collaborative project “Stress tolerance rice for Africa and South Asia (STRASA)” held on 30 April -03 May, 2018, in New Delhi, India.
13. Paper presented and participate in Inception meeting of project Leveraging Diversity for Ecologically Based Pest Management (VERDE): Smart deployment of resistance genes and ecological engineering to prevent rice yield loss and reduce pesticide dependency.” Held on 3 – 4 April, 2018, in Phnom Penh, Cambodia
14. Paper presented and participate in Workshop for Blast Research Network and 7th International Rice Blast Conference held on 09-14 October 2016 in Philippines
15. Paper presented and participate in international consultation workshop on wheat blast held on 26 – 27 july, 2016 in Kathmandu, Nepal
16. Paper presented and participate in 6th International Conference on Plant, Pathogens and People-Challenges in Plant Pathology to benefit humankind” held on 23-27 February in New Delhi, India
17. Paper presented and participate in Annual meeting for the blast research network for stable rice production and the workshop for blast research network for stable rice production held on 27 September- 01 October 2015 in Kunming, China.

VI. EXPARTISE/INTERST ON SUBJECTS TO TEACHING, RESEARCH SUPERVISION AND AFFILIATION WITH UNIVERSITY

To date, I am capable of development of courses and teaching of undergraduate and post-graduate students on basic and applied areas of agricultural sciences: Introduction to Plant Pathology, Mycology, Introduction Nematology/Bacteriology, Advances in Nematology/Bacteriology, Molecular Plant Pathology, Molecular Biology, Genetics of Microbes/Pathogens and Diease Resistance, Molecular Markers and Genetic Polymorphism, Gene Expression, Basic Plant Biotechnology, Research Methodology.

Names of Institute/University	Research or teaching activities	Joining date	Ending date
Universiti Putra Malaysia, Malaysia	External research supervisor	February, 2010	Till to date

Sher-E-Bangla Agricultural University, Bangladesh	Research supervisor	February, 2005	Till to date
Bangladesh Agricultural University	Research supervisor	November, 2003	Till to date
BSMR Agricultural University, Bangladesh	Research supervisor	January, 2009	Till to date
National University, bangladesh	Research supervisor	December, 2016	Till to date
International University of Business, Agriculture and Technology (IUBAT)	Research supervisor	Fall 2020	Till to date
Mawlana Bhashani Science and Technology University	Research supervisor	March 2021	Till to date
BRRI, Gazipur, Bangladesh	Trainer for the agriculturist and graduate of different private sectors: Course's name: Rice production technologies, Marker assisted selection, Genetic of plant plant pathogen and disease resistance	November, 1993	Till to date
International Angel Association funded by Japan, Gazipur, Bangladesh	Course Instructor, Courses: Rice production technologies, Rice diseases and its management	Decemver, 1995	November, 1996
UPM, Malaysia	Teaching of bachelor students for six hour per week as a Graduate assistant: Course name, Genetic polymorphism and practical classes	December, 1996	August, 2000

SUPERVISION OF POST- GRADUATE STUDENTS (National)				
Sl. No.	**Name of the student supervised & University**	**Level**	**Title of the thesis**	**Remarks**
1	AKM Sajjadul Islam, BAU, Mymensingh	PhD	Screening of germplasm against bacterial blight (BB) and blast and development of BB and blast resistant rice varieties	On-going
2	A. K. M. Shafiqul Islam, BAU, Mymensingh	PhD	Biosynthesis and characterization of effective nanoparticles and application in controlling sheath blight disease of rice	On-going

3	Monura binte halim, Roll no. 2020 Ag. P. Path. JD-17M, Dept. of Plant Pathology, BAU, Mymensigh, Bangladesh	MS	Detection of blast and bacterial blight resistant genes in BRRI released rice varieties	On-going
4	Lutfur Rahman, Reg. No. BG-15019, Department of Biotechnology and Genetic Engineering, MBSTU, Tangail, Bangladesh	MS	Green synthesis of Zinc-Chitosan nanoparticles and management for bacterial blight disease	On-going
5	Anowara akter, BAU, Mymensingh	PhD	Screening and genetic diversity of bacterial blight resistant restorer lines and development of BB resistant restorer line in hybrid rice.	Completed (May, 2022)
6	Tapon Chandra Sen, Reg. No. BG-14035, Department of Biotechnology and Genetic Engineering, MBSTU, Tangail, Bangladesh	MS	Green synthesis of magnesium oxide and potassium nanoparticles and its *in-vitro* efficacy on *Xanthomonas oryzae* pv. o*ryzae* causing bacterial blight disease of rice.	Completed (March, 2022)
7	Sanjita Rani Bhadra, Reg. No. BG-14034, Department of Biotechnology and Genetic Engineering, MBSTU, Tangail, Bangladesh	MS	Identification of bacterial blight resistant genes using molecular markers and pathogenicity test in BC3F3 generation derived from cross BRRI dhan81 and IRBB60.	Completed (March, 2022)
8	Md. Al-Imran Hasan, Roll No. 2017 P.path JD-06M, Department of Plant Pathology, BAU, Mymensingh, Bangladesh	MS	Analysis of genetic divergence of bacterial blight resistant genotypes using ISSR markers	Completed (June, 2019)
9	M. M. Rahman, Reg. No. 26226/00781, SAU, Dhaka, Bangladesh	MS	Morphological and molecular characterization of Tungro resistant genotypes.	Completed (June, 2007)
10	M. R. B. Talukder, Reg. No. 27550/00716, SAU, Dhaka, Bangladesh	MS	Screening of F_2 populations and molecular characterization of ufra resistant genotypes.	Completed (June, 2007)
11	M. M. Rahman, Reg. No.00923, SAU, Dhaka, Bangladesh	MS	Morphological and molecular characterization of rice blast resistant genotypes.	Completed (Sept. 2008)

12	M. W. Ullah, Reg. No. 25144/00289, SAU, Dhaka, Bangladesh	MS	Varietal screening and management of rice ufra disease	Completed (June, 2006)
13	M. A. Rahman, Reg. No. 25287/00392, SAU, Dhaka, Bangladesh	MS	Studies on interaction among *Rhizoctonia solani*, *R. oryzae* and *R. oryzae-sativae* causing sheath diseases of rice	Completed (June, 2006)
14	M. B. Uddin, Roll no. 2004 Ag. P. Path. JJ-17M, Dept. of Plant Pathology, BAU, Mymensigh, Bangladesh	MS	Yield loss due to bakanae disease of rice and it's management	Completed (June, 2005)
15	M. Z. Islam, Roll no. 2004 Ag P. Path. JJ-38M, Dept. of Plant Pathology BAU, Mymensingh, Bangladesh	MS	Some epidemiological aspects and integrated management of sheath blight disease of rice.	Completed (June, 2005)
16	M. M. Haque, Roll no. JJ17/2003, Dept. of Agril. Extension Education, BAU, Mymensigh, Bangladesh (Co-supervisor)	MS	Farmer's innovation-decision pattern and constraints faced in adopting System of Rice Intensification (SRI)	Completed (June, 2004)
17	M. Gazi Salah Uddin, Reg. No. 26241/00795, SAU, Dhaka, Bangladesh	MS	Management of Bakanae disease through seed treating fungicides	Completed (June, 2010)

VIII. SUPERVISION OF POST- GRADUATE STUDENTS (International)

No.	Position in Committee	Name of Student	Level	Thesis Title	Status
1	Member	Gous Miah, UPM, Malaysia	PhD	Development of Blast Resistant rice variety through marker assited selection of MR219 x Pongsu Seribu 2	Completed
2	Member	Muhammad Mahmudul Hasan, UPM, Malaysia	PhD	Development of blast resistant rice variety through makers assited backcross breeding between MR263 x Pongsu Seribu 2	Completed
3.	Member	Mahmood Reza Shabanimofrad, UPM, Malaysia	PhD	Detection and mapping of Brown Planthopper resistance QTLs in rice	Completed
4.	Chairman	Wendy Lau Chui Phing, UPM, Malaysia	PhD	Marker Assisted Backcross Breeding for Improvement of Fragrance Characteristic in Local Rice Variety MR269	Completed

5.	Member	Fahim Ahmed, UPM, Malaysia	PhD	Development of submergence tolerant rice variety through marker assisted backcross breeding	Completed
6.	Member	Farahnaz Sadat-Golestan-Hashemi, UPM, Malaysia	PhD	Molecular dissection and QTL mapping of aroma trait in aromatic rice using microsatellite markers	Completed
7.	Member	Parisa Azizi, UPM, Malaysia	PhD	Development of Rice Variety Resistant to Blast Disease Through Transferring *Pi-k*^{h} Gene	Completed
8.	Member	Ibrahim Wasiu Arolu, UPM, Malaysia	PhD	Markers assisted selection for high yielding and dwarfness in oil palm	Completed
9.	Member	Tanweer Fatah, UPM, Malaysia	PhD	Cloning of QTL and development of blast resistant rice variety through Marker Assisted Backcrossing	Completed
10	Chairman	Mohammad Yadegari Khouzani, UPM, Malaysia	Master with thesis	Development of high yielding hybrid watermelon variety through marker assisted selection	Completed
11.	Member	Welland Cosmas Mojulat, UPM, Malaysia	Master with thesis	Analysis of simple sequence repeat markers linked with MR263 × Submergence tolerance rice Swarna-Sub1	Completed
12.	Member	Iffah Haifaa binti Mat Deris, UPM, Malaysia	Master with thesis	Molecular Characterization and Identification of Brown Planthopper (BPH) Biotypes in Peninsular Malaysia	Completed
13.	Member	Maya Izhar Khaidizar, UPM, Malaysia	Master with thesis	Genetic Diversity of *Citrus* species in Peninsular Malaysia.	Completed
14.	Member	Usman Magaji, UPM, Malaysia	Master with thesis	Identification of heat tolerant genotypes of chilli pepper based on cell membrane thermostability and expression of Heat Shock Protein (HSP) genes	Completed
15.	Member	Saba Jasim, UPM, Malaysia	Master with thesis	Genetic Diversity of Aromatic Rice using Quantitative Traits and Simple Sequence Repeats (SSR) Markers	Completed

16.	Member	Zakiah Binti Mohd Zuki, UPM, Malaysia	Master with thesis	Marker assisted selection for bacterial leaf blight in rice (oryza sativa cv. MR219)	Completed
17	Member	Shyful Azizi Bin Abdul Rahman, UPM, Malaysia	Master with thesis	Ecophysiological effect of water input strategies in different growth phases of rice (*Oryza sativa*) using isotopic technique	Completed
18	Supervisor	Abdinasir Mohamed Adan, IUBAT, Bangladesh	Bachel or with Thesis	Screening and identification of rice bacterial blight resistant genes in BC3F2 population derived from BRRI dhan81 and IRBB58 cross	Completed

IX. MENTORING OF POST- DOCTORAL FELLOW (COMPLETED)

No	Name of post-doctoral fellows	Vanue and Duration	Title of research projects
1	Dr. Md. Jahangir Alam	ITA, UPM, Malaysia, October 8, 2013 to March 27, 2014	Identification of Rice Brown Planthopper Biotypes, *Nilaparvata lugens* Through Molecular Markers and Differential varieties in Malaysia
2	Dr. Md. Abul Kashem	ITA, UPM, Malaysia, September 28, 2013 to March 27, 2014	Identification of Major Diseases of Rice Using Nuclear and Molecular Techniques
3	Dr. Md. Shahidul Islam	ITA, UPM, Malaysia, September 28, 2013 to March 27, 2014	Seed Technology, Agronomic Management and Molecular Techniques
4	Dr. Mohammad Ibrahim Khalil	ITA, UPM, Malaysia, September 28, 2013 to March 27, 2014	Expression of blast resistant gene in F_3 families of rice derived from Pongsu Seribu1 x MR 263

X. RESEARCH GRANTS AND ACHIEVMENTS

Research Grants

No.	Project No.	Project Title	Role	Year	Source/type of fund	Status
1	213034201	Strengthening research activities on management of major rice diseases (blast, bacterial blight, sheath blight and tungro) in changing climate (PPNB)	Project Director	7/2019-6/2022	GoB	**On-going**

No.	Project No.	Project Title	Role	Year	Source/type of fund	Status
2	TF 71-C/20	Sustainable management of blast, sheath blight and bacterial blight diseases of rice through nano-particles (NPs)	Principal Investigator	12/2020-11/2023	KGF	**On-going**
3	TRB project	Transforming rice breeding (Plant Pathology component)	Principal Investigator	12/2016-11/2024	Bill and Melinda gates foundation	**On-going**
4	JIRCAS project	Genetic improvement of rice breeding materials and technology for blast studies in Bangladesh	Principal Investigator	1/2018-12/2021	JIRCAS, JAPAN	**On-going**
5	BAS-USDA PALS BRRI CR-03	Identification of races and development of durable resistant variety for bacterial blight (BB) through marker assisted selection (MAS)	Principal Investigator	4/2017-3/2020	BAS	**Completed**
6	BR2-C/17	QTL and linkage mapping of rice tungro resistance	Principal Investigator	3/2017-2/2020	KGF	**Completed**
7	IBM project	Integrated management of blast disease for enhancing rice production in relation to climate change	Principal Investigator	7/2017-6/2018	Govt., Bangladesh	**Completed**
8	Id-091	Identification of novel resistant gene(s), gene pyramiding and sustainable management of bacterial blight (BB) disease of rice	Principal Investigator	1/2018-12/2020	NATP Phase 2	**Completed**
9	BMZ project	Leveraging Diversity for Ecologically-based Pest Management (VERDE): Smart deployment of resistance genes and ecological engineering to prevent yield loss	Principal Investigator	1/2018-12/2020	BMZ, Germany	**Completed**

No.	Project No.	Project Title	Role	Year	Source/type of fund	Status
		and reduce pesticide dependency				
10	GP-IPS/2013/9391400	Marker assisted backcross breeding for the improvement of fragrance characteristic and amylose content in local rice variety MR269	Project Leader	11/2013-10/2015	Universiti Putra Malaysia/GP-IPS	**Completed**
11	01-02-12-2033RU	Identification of biotypes of rice brown planthopper, *Nilaparvata lugens* through molecular markers and differential systems in Malaysia	Project Leader	9/2012-8/2013	Universiti Putra Malaysia/ RUGS Public fund	**Completed**
12	SP3602	Extension of the system of rice intensification through verification.	Co-ordinator and Principal investigator	(2001-2004)	PETRRA/ DFID /UK	Completed
13	FRGS/1/2012/STWNO3/UPM/02/2	Identifaction and characterization of heat shock proteiens (HSPs) in chili paper (*Capsicum annuum* L.) and their utilization for hybrid variety development	Researcher	5/2013-4/2014	Ministery of Higher Education, Malaysia/ Public fund	**Completed**
14	IAEA CRP/17526	Evaluation and selection of rice mutants/varieties for utilization to increase Yield and production, and for quality fodder	Researcher*	9/2012 - 8/2014	International Atomic Energy Agency (IAEA)/ International fund	**Completed**
15	UMB/6379700	Development of high yielding and dwarf oil palm planting material through conventional and markers assisted selection (MAS)	Researcher	1/2012-12/2014	United Malacca Berhad, Malaysia/ private fund	**Completed**
16	UPM/700-2/1/LRGS/01-11-P5	Development of submergence tolerant rice varieties through marker assisted selection (MAS)	Researcher*	7/2011-6/2014	Ministery of Higher Education, Malaysia/ Public fund	**Completed**

No.	Project No.	Project Title	Role	Year	Source/type of fund	Status
17	FRGS/1/11/STWN/UPM/02/24	Linkage and QTL mapping of brown planthopper resistance in rice	Researcher*	8/2011-7/2013	Ministery of Higher Education, Malaysia/ Public fund	**Completed**
18	01-01-11-1334RU	Gene Pyramiding of Rice Brown Planthopper (Bph) and Bacterial leaf Blight (BLB) resistance through markers assisted selection (MAS)	Researcher*	4/2011-4/2013	Universiti Putra Malaysia/ RUGS Public fund	**Completed**
19	UPM/700-2/1/LRGS/01-11-P1	Development of Blast resistant rice varieties through marker assisted backcross breeding	Researcher*	7/2011-6/2014	Ministery of Higher Education, Malaysia/ Public fund	**Completed**
20	ADB project	Development of root knot resistant aerobic rice varieties	PI (Plant Pathology Component)	July, 2015-June 20016	Asian Develoment Bank	**Completed**
21	IAPP Project	Integrated disease management and quality rice seed production	PI (Plant Pathology Component)	July, 2014-June 20016	World Bank	**Completed**

*Projects were written by me (a foreigner cannot be a leader of such project)

b). Research Achievements

1. QTL and linkage mapping for tungro resistance in bangladesh in 2018-2020
2. Identification of physiological races of *Xanthomonous oryzae* pv. *oryzae* throughout Bangladesh and its distribution.
3. Development of Blast and Bacterial blight rersistant advance lines in the background of BRRI released popular varieties.
4. QTL mapping of partial blast resistance in local Malaysian cultivar, Pongsu Seribu in 2011-2012
5. Ultrastructure and morphometries of *Ditylenchus angustus* (Butler, 1913) in 1993.
6. Evidence sibling species complex in rice brown planthopper using allozymes, molecular markers and host-plant interaction studies in 1996-2000.
7. Inter-population crosses, inheritance study and genetic variability in brown planthopper,

Nilaparvata lugens (Homoptera: Delphacidae) complex in 1998-1999
8. Genetic dissection of two sympatric populations of brown planthopper, *Nilaparvata lugens* (Stål) using DALP-PCR molecular markers
9. Validation of system of rice intensification in 2002-2004.
10. Microsatellite and minisatellite markers-based DNA fingerprinting and identification of blast and ufra resistant genotypes in 2005-2006.
11. Inheritance studies of SSR and ISSR molecular markers and phylogenetic relationship of rice genotypes resistant to tungro virus in 2007-2008.
12. Sucessful use of SSRs for marker assisted selection for blast resistance in rice
13. QTL and linkage mapping of rice brown planthopper resistance and fragrant charcaterestics in 2012-2013
14. Development of high yielding and quality, and tolerance to biotic and abiotic stresses rice varieties are in progress

XI. PUBLICATIONS

Total Journal publication: 171

International peer reviewed impact factor journal: **127**
Index and non-Index national and international journal: **44**
Cumulative impact factor: 272.063

Dr. Latif's *H-index*:

Google Scholar *H-index* = **41**
i10 index by Google Scholar = **105**
Total citations of articles in Google scholar: **5090**
Scopus (id: 22980446000) *H-index* = **28**

International peer reviewed impact factor journal

1. **Latif, M. A**., Nihad, S. A. I., Mian, M. S., Akter, S., Khan, M. A. I., & Ali, M. A. (2022). Interaction among sheath diseases complex of rice and ribosomal DNA analysis for the differentiation of *Rhizoctonia solani, R. oryzae* and *R. oryzae-sativae*. *Plant Stress*, 5, 100100.

2. Akter, A., Nihad, S. A. I., Hasan, M. J., Hassan, L., Robin, A. H. K., Quddus, M. R.& **Latif, M. A.** (2022). Evaluation of hybrid rice parental lines against bacterial blight disease and detection of resistant gene (s) by gene-specific, linked markers. *Journal of Phytopathology*. (**IF=1.826, Q1)**

3. Anik, T. R., Nihad, S. A. I., Hasan, M., Hossain, M. A., Rashid, M., Khan, M. A. I. & **Latif, M. A.** (2022). Exploring of bacterial blight resistance in landraces and mining of resistant gene(s) using molecular markers and pathogenicity approach. *Physiology and Molecular Biology of Plants*, 28(2), 455-469. (**IF=3.442, Q1)**

4. Nihad, S. A. I., Hasan, M. K., Kabir, A., Hasan, M., Bhuiyan, M., Yusop, M. R., & **Latif, M. A.** (2022). Linkage of SSR markers with rice blast resistance and development of partial resistant

advanced lines of rice (*Oryza sativa*) through marker-assisted selection. *Physiology and Molecular Biology of Plants,* 28(1), 153-169. (**IF=3.442, Q1)**

5. Hore, T. K., Inabangan-asilo, M.A., Wulandari, R., **Latif M. A.,** *et al.* (2022) Introgression of tsv1 improves tungro disease resistance of a rice variety BRRI dhan71. *Scientific Reports*, 12, 18820 2022. (**IF=4.996, Q1)**

6. **Latif, M. A.**, M.Y. Ali, M. R. Islam, M. A. Badshah and M. S. Hasan. (2009). Evaluation of management principles and performance of the System of Rice Intensification (SRI) in Bangladesh. *Field Crops Research*, 114: 255–262. (**IF=5.224, Q1)**

7. **Latif M. A.,** Haque A., Tajul M. I., Monsur M.A., Rafii M.Y., Ali M.A. (2013). Interactions between two plant-parasitic nematodes, *Ditylenchus angustus* and *Aphelenchoides besseyi* on rice plant: effect on population dynamics and rice yield. *Phytopathologia Mediterranea.* 52(3):490−500 (**IF=2.020, Q3**)

8. **Latif M. A.,** Rahman M. M., Ali M. E., Ashkani S., Rafii M. Y. (2013). Inheritance studies of SSR and ISSR molecular markers and phylogenetic relationship of rice genotypes resistant to tungro virus. *Comptes Rendus Biologies,* 336:125-133. (**IF=1.443, Q2**)

9. **Latif M. A.**, M. Y. Omar, S. G. Tan, S. S. Siraj and A. R. Ismail. (2010). Biochemical studies on malathion resistance, inheritance and association of esterase activity in Brown Planthopper, *Nilaparvata lugens* complex in Peninsular Malaysia. *Insect Science,* 17:517-526. (**IF=3.262, Q2***)*

10. **Latif, M. A.**, M. Y. Omar, S. G. Tan, S. S. Siraj and A. R. Ismail. (2010). Inter-population crosses, inheritance study and genetic variability in brown planthopper, *Nilaparvata lugens* complex. *Biochemical Genetics*, 48:266–286. (**IF= 1.890, Q2***)*

11. **Latif, M. A.**, S. G. Tan, M. Y. Omar, and S. S. Siraj, (2008). Evidence of sibling species complex in brown planthopper, *Nilaparvata lugens* complex detected from short and long primer random amplified polymorphic DNA fingerprints. *Biochemical Genetics*, 46: 520–537. (**IF= 1.890, Q2***)*

12. **Latif M. A**., Rafii M. Y., Rahman M.M., Talukdar M.R.B. (2011). Microsatellite and minisatellite markers-based DNA fingerprinting and Genetic diversity of blast and ufra resistant genotypes. *Comptes Rendus Biologies,* 334: 282-289. **(IF=1.583, Q2)**

13. Tanweer, F. A., Rafii, M. Y., Sijam, K., Rahim, H. A., Ahmed, F., Ashkani, S., & **Latif, M. A.** (2015). Introgression of blast resistance genes (putative Pi-b and Pi-kh) into elite rice cultivar MR219 through marker-assisted selection. *Frontiers in plant science*, 6, 1002.(**IF=5.753, Q2**).

14. Khan, M. A. I., **Latif, M. A.,** Khalequzzaman, M., Tomita, A., Ali, M. A., & Fukuta, Y. (2017). Genetic variation in resistance to blast (*Pyricularia oryzae Cavara*) in rice (*Oryza sativa L*.) germplasms of Bangladesh. *Breeding science*, 17039. (**IF=2.086,Q2**)

15. Khan, M. A., Ali, M. A., Monsur, M. A., Kawasaki-Tanaka, A., Hayashi, N., Yanagihara, S., **Latif, M. A.,** Fukuta, Y. (2016). Diversity and distribution of rice blast (*Pyricularia oryzae Cavara*) races in Bangladesh. *Plant Disease*, 100(10), 2025-2033.. (**IF=4.438,Q1**)

16. Miah G., Rafi M.Y., Ismail M.R., Puteh A.B., Rahim H.A and **Latif M.A.** (2017). Marker-assisted introgression of broad-spectrum blast resistance genes into the cultivated MR219 rice variety. Journal of the Science of Food and Agriculture, 97(9):2810-2818. (**IF= 3.638**)

17. Ahmed, F., Rafii, M. Y., Ismail, M. R., Juraimi, A. S., Rahim, H. A., Tanweer, F. A., & **Latif, M. A.** (2016). Recurrent parent genome recovery in different populations with the introgression of Sub1 gene from a cross between MR219 and Swarna-Sub1. *Euphytica*, 207(3), 605-618.(**IF=1.895**).

18. **Latif, M. A.,** Omar, M. Y., Rafii, M. Y., Malek, M. A., & Tan, S. G. (2013). Evidence of sibling species between two host-associated populations of brown planthopper, *N. lugens* (stål)(Homoptera: Delphacidea) complex based on morphology and host–plant relationship studies. *Comptes Rendus Biologies*, 336(7), 354-363. (**IF=1.583, Q2***).*

19. Rashid, M. M., Nihad, S. A. I., Khan, M. A. I., Haque, A., Ara, A., Ferdous, T., **Latif, M. A.** (2021). Pathotype profiling, distribution and virulence analysis of *Xanthomonas oryzae* pv*. oryzae* causing bacterial blight disease of rice in Bangladesh. *Journal of Phytopathology*, 169(7-8), 438-446. **(IF= 1.72, Q2)**

20. Nihad, S. A. I., Manidas, A. C., Hasan, K., Hasan, M. A. I., Honey, O., & **Latif, M. A.** (2021). Genetic variability, heritability, genetic advance and phylogenetic relationship between rice tungro virus resistant and susceptible genotypes revealed by morphological traits and SSR markers. *Current Plant Biology*, 25, 100194. **(IF= 2.15, Q2)**

21. Hasan, M. M., Rafii, M. Y., Ismail, M. R., Mahmood, M., Rahim, H. A., **Latif, M. A.,** Malek, M. A. (2018). Genetic analysis of the resistance to rice blast in the BC2F1 population derived from MR263× Pongsu Seribu 1. *Biotechnology & Biotechnological Equipment*, 32(5), 1134-1140. **(IF= 1.632, Q3)**

22. Latif, M. A., Mohd, R. Y., Gous, M., Shamima, A., & Ali, M. A. (2013). Chemical control of ufra disease of rice: a simple profitability analysis. *Journal of Food, Agriculture & Environment*, 11(2 Part 2), 716-720. **(IF=0.435, Q3).**

23. Latif, M. A., Rafii, M. Y., Mazid, M. S., Ali, M. E., Ahmed, F., Omar, M. Y., & Tan, S. G. (2012). Genetic dissection of sympatric populations of brown planthopper, *Nilaparvata lugens* (Stål), using DALP-PCR molecular markers. *The Scientific World Journal*, **(IF= 2.107, Q1).**

24. **Latif M. A**., Omar M. Y., Tan S. G., Siraj S. S., Ali M. E., Rafii M. Y. (2012). Determination of the quantity of food assimilated by two sympatric populations of brown planthopper, *Nilaparvata lugens* (stål) and contamination of insect DNA detected from short and long primer RAPD-PCR analyses. *Genetics and Molecular Research* 11(1): 30-41 **(IF= 0.583, Q4)**

25. **Latif, M. A**. and M. R. Islam, M. Y. Ali and M. A. Saleque (2004). Validation of System of Rice Intensification (SRI) in Bangladesh. *Field Crop Research*. Vol. 93: 281-292. **(IF= 5.224, Q1)**

26. Zuki, Z. M., Rafii, M. Y., Ramli, A., Oladosu, Y., **Latif, M. A.,** Sijam, K., Ismail, M. R., & Sarif, H. M. (2020). Segregation analysis for bacterial leaf blight disease resistance genes in rice '*MR219'* using SSR marker. *Chilean Journal of Agricultural Research*,

80(2), 227–233. **(IF= 1.677, Q3)**

27. Jasim Aljumaili, S., Rafii, M. Y., **Latif, M. A.,** Sakimin, S. Z., Arolu, I. W., & Miah, G. (2018). Genetic diversity of aromatic rice germplasm revealed by SSR markers. *BioMed research international*. **(IF= 3.411, Q2)**

28. Lau, W. C. P., Rafii, M. Y., Ismail, M. R., Puteh, A., **Latif, M. A**., Asfaliza, R., Miah, G. (2017). Development of advanced fragrant rice lines from MR269× Basmati 370 through marker-assisted backcrossing. *Euphytica*, 213(1), 1-15. **(IF= 1.895, Q3)**

29. Shabanimofrad, M., Rafii, M. Y., Ashkani, S., Hanafi, M. M., Adam, N. A., Harun, A. R., **Latif, M. A.,** Azizi, P. (2017). Mapping of QTL s conferring resistance in rice to brown planthopper, *Nilaparvata lugens*. *Entomologia Experimentalis et Applicata*, 162(1), 60-68. **(IF= 2.250, Q2).**

30. Azizi, P., Rafii, M. Y., Mahmood, M., Abdullah, S. N. A., Hanafi, M. M., **Latif, M. A.,** & Ashkani, S. (2017). Evaluation of RNA extraction methods in rice and their application in expression analysis of resistance genes against *Magnaporthe oryzae*. *Biotechnology & Biotechnological Equipment*, 31(1), 75-84. **(IF= 1.632, Q3).**

31. Mojulat, W. C., Yusop, M. R., Ismail, M. R., Juraimi, A. S., Harun, A. R., Ahmed, F., **Latif, M. A.** (2017). Analysis of Simple Sequence Repeat Markers Linked to Submergence Tolerance on Newly Developed Rice Lines Derived from MR263× Swarna-Sub1. *Sains Malaysiana*, 46(4), 521-528. **(IF= 1.009, Q4)**

32. Rashid, M., Jahan, M., Islam, K. S., & **Latif, M. A.** (2017). Ecological fitness of brown planthopper, *Nilaparvata lugens* (Stål), to rice nutrient management. **Ecological Processes**, 6(1), 1-10. **(IF= 2.849, Q2)**

33. Kabir, M. S., Salam, M. A., Paul, D. N. R., Hossain, M. I., Rahman, N. M. F., **Latif, M. A.** (2017). Geo-statistical models for determining spatial variation and spatial dependency of soil arsenic in Bangladesh. **(IF= 0.515)**

34. Ahmed, F., Rafii, M. Y., Ismail, M. R., Juraimi, A. S., Rahim, H. A., **Latif, M. A.,** Tanweer, F. A. (2016). The addition of submergence-tolerant Sub1 gene into high yielding MR219 rice variety and analysis of its BC2F3 population in terms of yield and yield contributing characters to select advance lines as a variety. *Biotechnology & Biotechnological Equipment*, 30(5), 853-863. **(IF= 1.632)**

35. Siddique, M. A., Khalequzzaman, M., Islam, M. M., Fatema, K., & **Latif, M. A.** (2016). Molecular characterization and genetic diversity in geographical indication (GI) rice (*Oryza sativa L*.) cultivars of Bangladesh. *Brazilian Journal of Botany*, 39(2), 631-640. **(IF= 1.296)**

36. Kabir, M. S., Salam, M. A., Paul, D. N. R., Hossain, M. I., Rahman, N. M. F., Aziz, A., & **Latif, M. A**. (2016). Spatial variation of arsenic in soil, irrigation water, and plant parts: a microlevel study. *The Scientific World Journal,* 2016. **(IF= 2.107, Q1)**

37. Hassan M., Hossain I., Kashem M. A., Mondal M.M.A., Rafii M.Y. and **Latif M. A.** (2016). Effect of botanicals and biofungicide on controlling tikka disease (*Cercospora* sp.) of groundnut (*Arachis hypogea* L.). *Legume Research* 39(1). **(IF=0.589, Q4)**

38. Kashem M. A, Rafii M. Y., Mondal M. M. A., **Latif M. A.,** Islam S. (2016). Effect of times and levels of inoculum of *Trichoderma* for controlling root rot and collar rot of lentil. *Legume Research*. 39(1) **(IF=0.589, Q4)**

39. Miah, G., Rafii, M. Y., Ismail, M. R., Puteh, A. B., Rahim, H. A., Islam, K. N., **Latif, M. A.** (2013). A review of microsatellite markers and their applications in rice breeding programs to improve blast disease resistance. *International journal of molecular sciences*, 14(11), 22499-22528. **(IF= 5.54)**

40. Golestan Hashemi, F. S., Rafii, M. Y., Ismail, M. R., Mohamed, M. T. M., Rahim, H. A., **Latif, M. A.,** & Aslani, F. (2014). Comparative mapping and discovery of segregation distortion and linkage disequilibrium across the known fragrance chromosomal regions in a rice F2 population. *Euphytica.* (**IF=1.895, Q1**)

41. Moni, Z. R., Ali, M. A., Alam, M. S., Rahman, M. A., Bhuiyan, M. R., Mian, M. S., **Latif, M. A.,** & Khan, M. A. I. (2016). Morphological and genetical variability among Rhizoctonia solani isolates causing sheath blight disease of rice. *Rice Science*, 23(1), 42-50. **(IF= 3.333, Q2)**

42. Ashkani, S., Yusop, M. R., Shabanimofrad, M., Harun, A. R., Sahebi, M., & **Latif, M. A**. (2015). Genetic analysis of resistance to rice blast: A study on the inheritance of resistance to the blast disease pathogen in an F3 population of rice. *Journal of Phytopathology*, 163(4), 300-309. **(IF=1.789, Q2)**

43. Ashkani, S., Rafii, M. Y., Shabanimofrad, M., Ghasemzadeh, A., Ravanfar, S. A., & **Latif, M. A.** (2016). Molecular progress on the mapping and cloning of functional genes for blast disease in rice (*Oryza sativa L*.): current status and future considerations. *Critical reviews in biotechnology*, 36(2), 353-367. **(IF=8.429, Q3)**

44. Azizi, P., Rafii, M. Y., Abdullah, S. N. A., Nejat, N., Maziah, M., Hanafi, M. M., **Latif, M. A.,** & Sahebi, M. (2016). Toward understanding of rice innate immunity against *Magnaporthe oryzae*. *Critical reviews in biotechnology*, 36(1), 165-174. **(IF=8.489, Q3)**

45. Lau, W. C., Rafii, M. Y., Ismail, M. R., Puteh, A., **Latif, M. A.,** & Ramli, A. (2015). Review of functional markers for improving cooking, eating, and the nutritional qualities of rice. *Frontiers in plant science*, 6, 832. **(IF=5.753)**

46. Asad-Uz-Zaman, M., Bhuiyan, M. R., Khan, M. A. I., Bhuiyan, M. K. A., & **Latif, M. A.** (2015). Integrated options for the management of black root rot of strawberry caused by *Rhizoctonia solani* Kuhn. *Comptes Rendus Biologies*, 338(2), 112-120. **(IF=1.583, Q2)**

47. Azizi, P., Rafii, M. Y., Maziah, M., Abdullah, S. N. A., Hanafi, M. M., **Latif, M. A.,** Sahebi, M. (2015). Understanding the shoot apical meristem regulation: A study of the phytohormones, auxin and cytokinin, in rice. *Mechanisms of Development*, 135, 1-15. **(IF=2.041)**

48. Ashkani, S., Yusop, M. R., Shabanimofrad, M., Azadi, A., Ghasemzadeh, A., Azizi, P., & **Latif, M. A.** (2015). Allele mining strategies: principles and utilisation for blast resistance genes in rice (*Oryza sativa L.*). *Current issues in molecular biology*, 17(1), 57-74. **(IF= 2.081, Q1)**

49. Miah, G., Rafii, M. Y., Ismail, M. R., Puteh, A. B., Rahim, H. A., & **Latif, M. A.** (2015). Recurrent parent genome recovery analysis in a marker-assisted backcrossing program of rice (*Oryza sativa L*.). *Comptes rendus biologies*, 338(2), 83-94. **(IF=1.583, Q2)**

50. Hasan, M. M., Rafii, M. Y., Ismail, M. R., Mahmood, M., Alam, M. A., Abdul Rahim, H., & **Latif, M. A.** (2016). Introgression of blast resistance genes into the elite rice variety

MR263 through marker-assisted backcrossing. *Journal of the Science of Food and Agriculture*, 96(4), 1297-1305. **(IF= 3.683)**

51. Azizi, P., Rafii, M. Y., Mahmood, M., Abdullah, S. N., Hanafi, M. M., Nejat, N., **Latif, M. A.,** & Sahebi, M. (2015). Differential gene expression reflects morphological characteristics and physiological processes in rice immunity against blast pathogen *Magnaporthe oryzae*. *PloS one*, 10(5), e0126188. **(IF= 3.53, Q1)**

52. Panhwar, Q. A., Naher, U. A., Jusop, S., Othman, R., **Latif, M. A.,** & Ismail, M. R. (2014). Biochemical and molecular characterization of potential phosphate-solubilizing bacteria in acid sulfate soils and their beneficial effects on rice growth. *PloS one*, 9(10), e97241. **(IF=3.53, Q1)**

53. Hashemi, F. S. G., Rafii, M. Y., Ismail, M. R., Mohamed, M. T. M., Rahim, H. A., **Latif, M. A.,** & Aslani, F. (2015). The genetic and molecular origin of natural variation for the fragrance trait in an elite Malaysian aromatic rice through quantitative trait loci mapping using SSR and gene-based markers. *Gene*, 555(2), 101-107. **(IF=2.13, Q2)**

54. Usman, M. G., Rafii, M. Y., Ismail, M. R., Malek, M. A., & **Latif, M. A.** (2015). Expression of target gene *Hsp70* and membrane stability determine heat tolerance in chili pepper. *Journal of the American Society for Horticultural Science*, 140(2), 144-150. **(IF=1.27, Q2)**

55. Hasan, M. M., Rafii, M. Y., Ismail, M. R., Mahmood, M., Rahim, H. A., Alam, M. A., **Latif, M. A.** (2015). Marker-assisted backcrossing: A useful method for rice improvement. *Biotechnology and Biotechnological Equipment*, 29(2), 237-254. **(IF=1.632, Q3)**

56. Tanweer, F. A., Rafii, M. Y., Sijam, K., Rahim, H. A., Ahmed, F., & **Latif, M. A.** (2015). Current advance methods for the identification of blast resistance genes in rice. *Comptes Rendus Biologies*, 338(5), 321-334. **(IF= 1.904, Q2)**

57. Tanweer, F. A., Rafii, M. Y., Sijam, K., Rahim, H. A., Ahmed, F., *Latif, M. A*., & Ashkani, S. (2015). Cloning and characterization of two major blast resistance genes' Pi-b and Pi-kh from Malaysian rice variety Pongsu Seribu 2. *Plant Omics*, 8(3), 257-263. **(IF= 0.647, Q2)**

58. Adnan, S. M., Uddin, M. M., Alam, M. J., Islam, M. S., Kashem, M. A., Rafii, M. Y., & **Latif, M. A**. (2015). Management of mango hopper, *Idioscopus clypealis*, using chemical insecticides and neem oil. *Scientific World Journal*, 2014. **(IF= 2.107, Q1)**

59. Alam, M. A., Juraimi, A. S., Rafii, M. Y., Hamid, A. A., Arolu, I. W., & **Latif, M. A.** (2015). Genetic diversity analysis among collected purslane (*Portulaca oleracea* L.) accessions using ISSR markers. *Comptes rendus biologies*, 338(1), 1-11. **(IF= 1.583, Q2)**

60. Alam, M., Juraimi, A. S., Rafii, M. Y., Hamid, A. A., Arolu, I. W., & **Latif, M. A.** (2015). Application of EST-SSR marker in detection of genetic variation among purslane (*Portulaca oleracea* L.) accessions. *Brazilian Journal of Botany*, 38(1), 119-129. **(IF= 1.296, Q2)**

61. Golestan Hashemi, F. S., Rafii, M. Y., Razi Ismail, M., Mohamed, M. T. M., Rahim, H. A., **Latif, M. A.,** & Aslani, F. (2015). Opportunities of marker-assisted selection for rice fragrance through marker–trait association analysis of microsatellites and gene-based markers. *Plant Biology*, 17(5), 953-961. **(IF= 2.434)**

62. Golestan Hashemi, F. S., Rafii, M. Y., Ismail, M. R., Mohamed, M. T. M., Rahim, H. A., **Latif, M. A.,** & Aslani, F. (2015). Application of an effective statistical technique for an accurate and powerful mining of quantitative trait loci for rice aroma trait. *PloS one*, 10(6), e0129069. **(IF= 3.04, Q1)**

63. Shabanimofrad, M., Rafii, M. Y., Ashkani, S., Hanafi, M. M., Adam, N. A., **Latif, M. A.,** & Sahebi, M. (2015). Analysis of SSR markers linked with brown planthopper resistance genes ('*Bph*') using high-resolution melting (HRM) in rice. *Plant Omics*, 8(3), 212-219. **(IF= 0.645, Q3)**

64. Oladosu, Y., Rafii, M. Y., Abdullah, N., Malek, M. A., Rahim, H. A., Hussin, G., **Latif, M. A.,** & Kareem, I. (2015). Genetic variability and diversity of mutant rice revealed by quantitative traits and molecular markers. *Agrociencia*, 49(3), 249-266. **(IF= 0.391, Q4)**

65. Chowdhury, M. T. I., Mian, M. S., Mia, M. T., Rafii, M. Y., & **Latif, M. A.** (2015). Agro-ecological variations of sheath rot disease of rice caused by *Sarocladium oryzae* and DNA fingerprinting of the pathogen's population structure. *Genetics and Molecular Research*, 14(4), 18140-18152. **(IF=0.583, Q4)**

66. Asad, H. A., Meah, M. B., Begum, S. N., Khalil, M. I., Rafii, M. Y., & **Latif, M. A.** (2015). Study of genetic variation of eggplant cultivars by using RAPD-PCR molecular markers and the relationship with Phomopsis blight disease reaction. *Genetics and Molecular Research*, 14(4), 17007-17018. **(IF=0.583, Q4)**

67. Phing Lau, W. C., **Latif, M. A.,** Y. Rafii, M., Ismail, M. R., & Puteh, A. (2016). Advances to improve the eating and cooking qualities of rice by marker-assisted breeding. *Critical reviews in biotechnology*, 36(1), 87-98. **(IF=8.42, Q1)**

68. Khan, M. A. I., Sen, P. P., Bhuiyan, R., Kabir, E., Chowdhury, A. K., Fukuta, Y., ... & **Latif, M. A.** (2014). Phenotypic screening and molecular analysis of blast resistance in fragrant rice for marker assisted selection. *Comptes rendus biologies*, 337(5), 318-324. **(IF=1.583, Q2)**

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6. Islam MS, Islam MR, Haque MSS, Kashem MA, **Latif MA**, Iftekharuddaula K.M. and Halder KP, 2020, Things to Do for Increasing Yield of Boro Rice, 1st Edition, 32 pages, published by Bangladesh Rice Research Institute (BRRI)

7. Biswas JK, Kabir MS, Latif MA and Kashem MA (2014), About BRRI: a very short introduction, published by Bangladesh Rice Research Institute (BRRI)

f). Bulletins and folders for technology dissemination

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2. Jahan, Q. S. A., **M. A. Latif**, A. Haque, M.K.A. Bhuiyan and MA ALI (2016). Steps for farmers to control rice sheath disease (Dhaner sheath blight rog domone kreshoker koronio -in Bengali). Plant Pathology Division, BRRI Gazipur-1701. Funded by PGB Project.
3. Jahan, Q. S. A., **M. A. Latif**, MM. Haque, MA ALI, MA Monsur, and M.K.A. Bhuiyan (2017). Application of tricho-compost to manage sheath blight disease of rice (Tricho-compost proyog kore dhaner sheath blight rog domone -in Bengali). Plant Pathology Division, BRRI Gazipur-1701. Funded by PGB Project.

4. **Latif, M. A** and M. R. Islam (2003). Rice stripe: A newly recorded viral disease in Bangladesh. *SAIC Newsletter,* Vol. 13 (4), p. 9.
5. **Latif, M. A**, K. M., Iftekharuddaula and M. Y. Ali (2003). Rice field crab, *Somanniathelphusa sexpunctata*: a treat to rice production in Bangladesh. *SAIC Newsletter*, Vol. 13 (3), p. 5.
6. **Latif, M. A.**, M. A. Kader, M. A. Hossain and P. K. S. Ray (2004). Rice blast disease and its control measures (Dhaner blast rog o tar protikar -in Bengali). BRRI Regional Station, Comilla. Funded by PETRRA/DFID.
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8. **Latif, M. A.,** M. Y. Ali and M. H. Rashid (2004). An improved rice cultivation package for low lying areas in boro season (Unnata Paddhatite nimno plabon bhumite boro dhan chas- in Bengali). BRRI Regional Station, Comilla. Funded by PETRRA/DFID.
9. Sarker, ABS and **M. A. Latif** (2003). Rice production in System of Rice Intensification (SRI) practices- a new technology for resource poor farmers (Bangladedeshe SRI paddhatite dhan chas- daridra krishoker dhan utpadan briddir ek natun sambhabona- in Bangla). Published and funded by PETRRA, IRRI, Bangladesh.
10. Ahmed, GJU, K. A. Bhuiyan, M. A. Badsha, **M. A. Latif**, C. Riches, and M. Mortimer. (2002). Weed management in rice cultivation (Dhan khate Agacha Daman-in Bangla). Published by Director General, BRRI Gazipur-1701 with the collaboration of BRRI, NRI (UK) and IRRI.
11. Ahmed, GJU, K. A. Bhuiyan, M. A. Badsha, **M. A. Latif**, C. Riches, and M. Mortimer. (2002). Cost-effective weed management in intensive rice cultivation. (Nibir Dhan Chase karjakori bhabe Agacha Daman-in Bangla). Published by Director General, BRRI Gazipur-1701 with the collaboration of BRRI, NRI (UK) and IRRI.

XII. AWARDS

a) Academic Awards

1. National Science and Technology Fellowship award from Ministry of Science and Technology, Peoples Republic of Bangladesh for MS program in March, 1991
2. Graduate Assistantship award from University Putra Malaysia for PhD program in December, 1996

b) MPOB Best Publication Awards

3. Malaysian Plum Oil Board Best Publication 2012

   Noh A, Rafii, M.Y., Saleh, G.B., Kushairi, A., **Latif, M.A.** (2012). Genetic performance and general combining ability of oil palm Deli *dura* × AVROS *pisifera* tested on inland soils. *The Scientific World Journal* Volume 2012, Article ID 792601, 8 pages

4. Malaysian Plum Oil Board Best Publication 2011

   Norziha, A**.,** Rafii, M.Y., Maizura, I., Saleh. G., **Latif, M.A.** (2011). Genetic variability of oil palm parental genotypes and performance of its progenies as revealed by molecular markers

and quantitative traits. *Comptes Rendus Biologies 3*34: 290-299

b) Research Exhibition and Innovation Awards

5. **Latif MA** won National Professor Innas Ali Gold Medel Award 2021 from BAS for his outstanding research acheivements in biological science.
6. Biswas P.S, Sarker RA, ..., Latif MA *et al,* Irrigated and Cold Tolerance Rice Breeding Team, TRB-BRRI Project Annual Award (2019)
7. Khatun M, Latif MA *et al,* Transplanted Aus and Disease Resistance Breeding Team, TRB-BRRI Project Annual Award (2017)
8. Rafii, M.Y., Noh, A., Kushairi, A., Saleh, G., **Latif, M.A.** Elite Pisifera pollen for commercial D × P oil palm seed production Pameran Reka Cipta, Penyelidikan dan Inovasi Malaysia 2012. Silver Medal
9. Rafii, M.Y., Bahari M.M., Saleh, G., **Latif, M.A.** BL-4 ×6372-4: A new potential F_1 Watermelon hybrids. Pameran Reka Cipta, Penyelidikan dan Inovasi Malaysia 2012. Silver Medal
10. Rafii, M.Y., Sohrabi, M., Hanafi, M.M., Siti Nor Akmar, A. **Latif, M.A.** Genetic diversity of Malaysian Upland Rice revealed by quantitative traits and microsatellite polymorphism. Pameran Reka Cipta, Penyelidikan dan Inovasi Malaysia 2012. Bronze Medal
11. Rafii, M.Y., Mahmoodreza Shabanimofrad, Puteri Edorawati Megat Wahab and **Latif, M. A.** A comparative analysis of genetic diversity among 48 jatropha curcas accessions in Peninsular Malaysia based on morphological and RAPD markers. Pameran Reka Cipta, Penyelidikan dan Inovasi Malaysia 2011. Bronze Medal
12. Rafii, M.Y., Mahmoodreza Shabanimofrad, Puteri Edorawati Megat Wahab and **Latif, M. A.** Diversity of physic nut (*Jatropha curcas*) in Peninsular Malaysia: Application of DIVA-Geographic information system and cluster analysis. Pameran Reka Cipta, Penyelidikan dan Inovasi Malaysia 2011. Bronze Medal
13. **Latif, M.A.** Certified by BRRI-IRRI-DFID for outstanding contribution to innovation in rice research for resource-poor farmers of Bangladesh in 2004. Medal for outstanding contribution.

XIII. PROFESIONAL AFFILIATION

1. Life member of the Bangladesh association of Biotechnology and Genetic Engineering (BABGE),
2. Member of the Genetics Society of Malaysia
3. Life Member of the Phytopathological Society of Bangladesh
4. Member of the Botanical Society of Bangladesh
5. Member of the Crop Science Society of Bangladesh
6. Member of the Bangladesh Association of Advancement of Science, Bangladesh
7. Member, National Variety Evaluation Committee,
8. Member, Krishibid Institution Bangladesh
9. Member, Bangladesh Bioinformatics and Computational Biology Association

XIV. Professional activities

a). Editorial activities

Post/services	Journal	Status	Year
Academic editor	Biomed research international, USA	International	2020- To date
Editor	Genetics and Molecular Research, Brazil	International	2017- 2019
Associate editor	Bangladesh Rice Journal	National	2014- To date
Treasurer	Bangladesh Phytopathological Society, Bangladesh	National	2009-2010
Editor	Program and abstract book committee of UPM-Shizuoka University International Colloquium	International	30 January- 3rd March 2014

b) Invited as resource speaker for different types of training/teaching/radio programme

1. Invited as resource speaker of the training programme (2 months, 1 months and 7 days rice production training) for BRRI scientists, scientific assistants, fram managers etc.
2. Invited as resource speaker for the training programmes of NATA, BARC, BARI etc.
3. Invited as resource speaker for extension personnels of DAE and farmer's training on Rice Production specially on disease management.
4. Invited as resource speaker for NGO personnals (*i.e.,* ACI, Lalteer, Supreem seed etc.) on rice diseases and its management.
5. Participated in radio and TV programme on rice cultivation specially on rice diseases and its management.

c) Expert member of board of studies/Research review workshop

Post/Services	Areas/Committee	Status	Year
Member	Academic Council Chandpur Science and Technology University, Chandpur appointed by honourable Chancellor	National	2022 till date
External Expert Member	Syllabus and Examination Committee, Dept. of Applied Nutrition & Food Technology, Islamic University, Kushtia.	National	2021 till date
Expert member (Pest mangement)	Internal research review workshop, BMWRI	National	2022 -till date

Expert Member	Board of Studies, Department of Plant Pathology, BAU	National	2015 to 2016
Expert member (Pest mangement)	Internal research review workshop, BINA	National	2014 -till date
Expert member (Pest mangement)	Internal research review workshop, BSRI	National	2014 -till date
Expert Member (Disease managemnt)	Technical committee for BRRI Rice Doctor (Website and Apps)	National	2015-2019

XIV. REFEREES

1. **Prof. Dr. Mohd Rafii Yusop**,
   Professor of Plant Breeding and Genetics
   Head, Laboratory of Food Crops, Institute of Tropical Agriculture,
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