

# SUMMARY OF CURRICULUM VITAE

DR. MD. ABDUL LATIF



1. **Qualifications** : BSc (Ag) (BAU), MS (BSMRAU), PhD (UPM), Post-Doc (UPM), Fellow (BAS)
2. **Specialization** : Plant Pathology and Molecular Biology
3. **Date of Birth** : 30 December 1965
4. **Nationality** : Bangladeshi
5. **Marital Status** : Married
6. **Designation** : **Director (Administration & CS)**
7. **Address (Office)** : Director (Administration & Common Service)  
Bangladesh Rice Research Institute  
Gazipur-1701, Bangladesh
8. **Date of Joining in Service** : 1<sup>st</sup> November, 1993
9. **PRL start date** : 30<sup>th</sup> December, 2024

## 10. 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

## 11. Employment experiences:

Employer	Designation and grade	Duration	Major areas of research
BRRI, Gazipur, Bangladesh	Director (Administration & Common Service)	11-06-2024 to till date	Plant Pathology and Molecular Biology
BRRI, Gazipur, Bangladesh	Director (Administration & Common Service) Current Charge	13-04-2023 to 10-06-2024	Plant Pathology and Molecular Biology
BRRI, Gazipur, Bangladesh	Chief Scientific Officer and Head	21-11-2019 to 12-04-2023	Plant Pathology and Molecular Biology
BRRI, Gazipur, Bangladesh	Principal Scientific Officer	05-11-2006 to 20-11-2019	Plant Pathology and Molecular Biology

BIRRI, Gazipur, Bangladesh	Senior Scientific Officer	12-04-1999 to 04-11-2006	Plant Pathology and Molecular Biology
BIRRI Gazipur, Bangladesh	Scientific Officer	01-11-1993 to 11-04-1999	Plant Pathology

## 12. Fellowship obtained from home and abroad

Position	Institute	Period (Start indicates Study areas)		
		From	To	Total (Year/Months)
National Science and Technology Fellow	BSMRAU	1991	1992	2 years*
Post-Doctoral Fellow	UPM, Malaysia	2010	2012	2 years**
Senior Research Fellow	UPM, Malaysia	2012	2014	2 years***

\* “Ultra-structural studies and gnotobiotic culture of *Ditylenchus angustus*”

\*\* Gene Pyramiding of rice brown planthopper and bacterial blight resistance through marker assisted selection

\*\*\* Development of blast resistant rice varieties through molecular marker assisted selection

## 13. Interest on areas to conduct basic and advanced research

- a. Varietal improvement of rice against major diseases through marker assisted selection.
- b. Linkage 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 population genetics and inheritance pattern of plant, pathogens and insects
- f. Identification of biotypes, pathotypes 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 relevant to my scientific articles published in high impact factor journals**

#### 14. Supervision of MS/PhD thesis

- I. Supervision of Postgraduate Students (MS & PhD)
  1. National: **17 (Seventeen)**
  2. International: **18 (Eighteen)**
- II. Mentoring of Post-Doctoral Fellow
  1. National: **0 (None)**
  2. International: **4 (Four)**

#### 15. Mentoring of post-doctoral fellows:

Completed: 04

#### 16. 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

#### 17. Publications: Total publication 270

**Journal publication: 186**

**Summary list of all publications (SO to Director (A & CS): 270 (Two hundred and seventy)**

<b>(a) Scientific journal</b>	<b>No. of publication</b>
(i) Full paper	
(a) Paper Published in the Reputed International Journal	
Principal author:	<b>16 (Sixteen)</b>
Co-author:	<b>115 (One hundred and Fifteen)</b>
(b) Other International & National Journal	
Principal author:	<b>21 (Twenty-one)</b>
Co-author:	<b>34 (Thirty-four)</b>
(ii) Short Communication	
Principal author	
Co-author	
(b) Books/Monographs/Bulletins	
(i) Books/Book Chapters/ Booklets	
Principal author	<b>2 (Two)</b>
Co-author	<b>11 (Eleven)</b>
(ii) Bulletins/ Folders	
Principal author	<b>5 (Five)</b>
Co-author	<b>8 (Eight)</b>
(c) Seminar/Workshop/ Symposium Proceedings	
(i) International/National	
Principal author:	<b>26 (Twenty-six)</b>
Co-author	<b>32 (Thirty-two)</b>

**18. Award received (national/International): 13**

- Academic award: 2  
MPOB best publication award: 2  
Research and innovation award: 9
- ✓ **Dr. Latif awarded National Professor Innas Ali Gold Medal Award 2021 from BAS for his outstanding research achievements in biological science.**
  - ✓ **Dr. Latif was elected as BAS (Bangladesh Academy of Science) Fellow in 2022 for his immense contribution to Agricultural Science**

**19. 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.

**20. 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

**21. 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 5<sup>th</sup> International genetics symposium and 3<sup>rd</sup> International rice functional 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 2<sup>nd</sup> 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, 5-7<sup>th</sup> 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:	<b>Director (Administration &amp; Common Service)</b>
Department/Divison:	Bangladesh Rice Research Institute
Current Address	<b>Director (Administration &amp; Common Service)</b> Bangladesh Rice Research Institute Gazipur-1701, Bangladesh
Email:	alatif1965@yahoo.com
Fax:	+88-029261110
Handphone:	+88-01715034095
Nationality:	Bangladeshi
Date of Birth:	30 <sup>th</sup> December 1965
<b>Field of Specialization:</b>	Plant Pathology and Molecular Biology (H-Index=36 google scholar, 24 scopus, 32 researchgate)
<b>Web sites for publication informations:</b>	Scopus Author ID: 22980446000 <a href="http://www.researchgate.net/profile/Latif_A">www.researchgate.net/profile/Latif_A</a> <a href="http://scholar.google.com.my/citations?user=Md3jEaoAAAAJ&amp;hl=en">http://scholar.google.com.my/citations?user=Md3jEaoAAAAJ&amp;hl=en</a>

**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. Linkage and QTL mapping of biotic stresses
- d. Integrated pest management
- e. Studies on gene expression in plants, pathogens and insects
- f. Studies on population genetics and inheritance pattern of plant, pathogens and insects
- g. Identification of biotypes, pathotypes 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 relevant to my scientific articles published in high impact factor journals**

**Language:**

Bangla, English, Bahasa Malaysia, Urdu, Arabic (Poor)

## **II. ACADEMIC QUALIFICATIONS**

<b>Qualification obtained</b>	<b>Institution</b>	<b>Year obtained</b>	<b>Area of Specialization</b>
Doctor of Philosophy (PhD)	Universiti Putra Malaysia (UPM)	2001	Molecular 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	Director (Administration & Common Service)	11-06-2024 to till date	
BRRI, Gazipur, Bangladesh	Director (Administration & Common Service) Current Charge	13-04-2023 to 10-06-2024	
BRRI, Gazipur, Bangladesh	Chief Scientific Officer and Head	21-11-2019 to 12-04-2023	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

BIRRI, Gazipur-1701, Bangladesh	Participatory workshop towards establishing property rights of BIRRI 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
BIRRI 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
BIRRI 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 5<sup>th</sup> International genetics symposium and 3<sup>rd</sup> International rice functional 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 physiological 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 2<sup>nd</sup> 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, 5-7<sup>th</sup> November, 2004, Tsukuba, Japan.

5. Paper presented on "Inheritance and association of malathion resistance in brown planthopper, <i>Nilaparvata lugens</i> ." 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, 27 <sup>th</sup> September to 1 <sup>st</sup> October, 2015.
9. Participated in IPS 6 <sup>th</sup> 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.
18. Paper presented and participate in "International conference on biodiversity, food security and sustainability & climate change" held on 25 April – 30 April 2023 in Assam, India.
19. Paper presented and participate in "6 <sup>th</sup> International rice congress" held on 16 October – 19 October 2023 Manila, Philippine.
20.. Paper presented and participate in "27 th Council for partnership on Rice Research in Asia (CORRA) Annual Meeting" held on 1 November – 2 November 2023 Bali, Indonesia.

## 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.

<b>Names of Institute/University</b>	<b>Research or teaching activities</b>	<b>Joining date</b>	<b>Ending date</b>
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	December, 1996	August, 2000

	and practical classes		
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<b>VII. SUPERVISION OF POST- GRADUATE STUDENTS (National)</b>				
<b>Sl. No.</b>	<b>Name of the student supervised &amp; University</b>	<b>Level</b>	<b>Title of the thesis</b>	<b>Remarks</b>
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	Completed, 2024
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, Mymensingh, 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	Completed, 2024
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 <i>in-vitro</i> efficacy on <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> 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 <sub>2</sub> 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 <i>Rhizoctonia solani</i> , <i>R. oryzae</i> and <i>R. oryzae-sativae</i> 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, Mymensingh, 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, Mymensingh, 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
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1	Member	Gous Miah, UPM, Malaysia	PhD	Development of Blast Resistant rice variety through marker assisted selection of MR219 x Pongsu Seribu 2	Completed
2	Member	Muhammad Mahmudul Hasan, UPM, Malaysia	PhD	Development of blast resistant rice variety through makers assisted 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 <i>Pi-k<sup>h</sup></i> 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 x 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 <i>Citrus</i> 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 ( <i>oryza sativa</i> 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 ( <i>Oryza sativa</i> ) 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 BRR1 dhan81 and IRBB58 cross	Completed

<b>IX. MENTORING OF POST- DOCTORAL FELLOW (COMPLETED)</b>			
<b>No</b>	<b>Name of post-doctoral fellows</b>	<b>Vanue and Duration</b>	<b>Title of research projects</b>
1	Dr. Md. Jahangir Alam	ITA, UPM, Malaysia, October 8, 2013 to March 27, 2014	Identification of Rice Brown Planthopper Biotypes, <i>Nilaparvata lugens</i> 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 <sub>3</sub> families of rice derived from Pongsu Seribu1 x MR 263
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## 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	Completed
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	1/2018-12/2024	JIRCAS, JAPAN	On-going
5	BAS-USDA PALS BRR1 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	Principal	3/2017-	KGF	Completed

No.	Project No.	Project Title	Role	Year	Source/type of fund	Status
		resistance	Investigator	2/2020		
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 and reduce pesticide dependency	Principal Investigator	1/2018-12/2020	BMZ, Germany	Completed
10	GP-IPS/2013/93 91400	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, <i>Nilaparvata lugens</i> 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)	PETARRA/ DFID /UK	Completed
13	FRGS/1/2012/STWNO3/UPM/02/2	Identifaction and characterization of heat shock proteiens (HSPs) in chili paper ( <i>Capsicum annuum</i> L.)	Researcher	5/2013-4/2014	Ministry of Higher Education, Malaysia/ Public fund	Completed

No.	Project No.	Project Title	Role	Year	Source/type of fund	Status
		and their utilization for hybrid variety development				
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	Ministry of Higher Education, Malaysia/ Public fund	Completed
17	FRGS/1/11/STWN/UPM/02/24	Linkage and QTL mapping of brown planthopper resistance in rice	Researcher*	8/2011-7/2013	Ministry 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	Ministry 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

No.	Project No.	Project Title	Role	Year	Source/type of fund	Status
21	IAPP Project	Integrated disease management and quality rice seed production	PI (Plant Pathology Component)	July, 2014- June 2016	World Bank	Completed

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

## 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* 334: 290-299

### b) Research and Innovation Awards

5. **Latif MA** awarded National Professor Innas Ali Gold Medal Award 2021 from BAS for his outstanding research achievements 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<sub>1</sub> 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 BRRRI-IRRI-DFID for outstanding contribution to innovation in rice research for resource-poor farmers of Bangladesh in 2004. Medal for outstanding contribution.

## XII. Research Achievements

1. QTL and linkage mapping for tungro resistance in bangladesh in 2018-2020
2. Identification of physiological races of *Xanthomonas oryzae* pv. *oryzae* throughout Bangladesh and its distribution.
3. Development of Blast and Bacterial blight resistant advance lines in the background of BRRRI 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. Successful use of SSRs for marker assisted selection for blast resistance in rice
13. QTL and linkage mapping of rice brown planthopper resistance and fragrant characteristics in 2012-2013
14. Development of high yielding and quality, and tolerance to biotic and abiotic stresses rice varieties are in progress

## XIII. Publications

### Dr. Latif's *H-index*:

Google Scholar *H-index* = 45

*i10 index* by Google Scholar = 120

Total citations of articles in Google scholar: 6470

Scopus (id: 22980446000) *H-index* = 34

**Summary list of all publications (SO to Director (A & CS): 270 (Two hundred and seventy)**

(a) Scientific journal	No. of publication
(i) Full paper	
(a) Paper Published in the Reputed International Journal	
Principal author:	<b>16 (Sixteen)</b>
Co-author:	<b>115 (One hundred and Fifteen)</b>
(b) Other International & National Journal	
Principal author:	<b>21 (Twenty-one)</b>
Co-author:	<b>34 (Thirty-four)</b>
(ii) Short Communication	
Principal author	
Co-author	
(b) Books/Monographs/Bulletins	
(i) Books/Book Chapters/ Booklets	
Principal author	<b>2 (Two)</b>
Co-author	<b>11 (Eleven)</b>
(ii) Bulletins/ Folders	
Principal author	<b>5 (Five)</b>
Co-author	<b>8 (Eight)</b>
(c) Seminar/Workshop/ Symposium Proceedings	
(i) International/National	
Principal author:	<b>26 (Twenty-six)</b>
Co-author	<b>32 (Thirty-two)</b>

### A. Paper Published in the Reputed International Journal

#### a. Principal author: 16 (Sixteen)

1. **Latif MA**, Rahman L, Islam N, Kayess MO, Rashid MM, Hasan MA, Khan MA. (2024) Pathotypic diversity of *Xanthomonas oryzae* pv. *oryzae*, and stringent evaluation of resistance lines of Rice in Bangladesh. *European Journal of Plant Pathology*. 2024 Jun 20:1-4.
2. **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

3. **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)
4. **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)
5. **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)
6. **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)
7. **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)
8. **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)
9. **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)
10. **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)
11. **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).
12. **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).
13. **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)

14. **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)
15. **Latif, M. A.**, MB, U., MM, R., M., H., S., A., QSA, J., MS, H., MA, A., & MA, H. (2021). Rice Bakanae Disease: Yield Loss and Management Issues in Bangladesh. *Food Science and Technology*, 9(1), 7–16. (IF= 1.718, Q2)
16. **Latif, M. A.**, Omar, M. Y., Tan, S. G., Siraj. S. S. (1998). Studies on the adult longevity, fecundity and assimilation of food between rice and weed infesting population of brown planthopper, *Nilaparvata lugens*. *Malaysian Applied Biology*., 27 (Suppl): 20-23. (IF= 0.462, Q1)

**b. Co-author: 115 (One hundred fifteen)**

1. Islam AS, Bhuiyan R, Nihad SA, Akter R, Khan MA, Akter S, Islam MR, Khokon MA, **Latif MA**. Green synthesis and characterization of silver nanoparticles and its efficacy against *Rhizoctonia solani*, a fungus causing sheath blight disease in rice. *PloS one*. 2024 Jun 18;19(6):e0304817.
2. Akter A, Hassan L, Nihad SA, Hasan MJ, Robin AH, Khatun M, Tabassum A, **Latif MA**. Pyramiding of bacterial blight resistance genes into promising restorer BRRI31R line through marker-assisted backcross breeding and evaluation of agromorphological and physiochemical characteristics of developed resistant restorer lines. *Plos one*. 2024 Jun 12;19(6):e0301342.
3. Nihad SA, Hasan MA, Anik TR, Rashid MM, Khan MA, Islam MR, **Latif MA**. Pyramiding of blast and bacterial blight resistance genes in premium quality rice variety, BRRI dhan63 through marker-assisted breeding approach. *Euphytica*. 2024 Jan;220(1):13.
4. 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)
5. 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)
6. 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)

7. 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 BRRIdhan71. *Scientific Reports*, 12, 18820 2022. (IF=4.996, Q1)
8. 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).
9. 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.*) germplasm of Bangladesh. *Breeding science*, 17039. (IF=2.086, Q2)
10. 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)
11. 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)
12. 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).
13. 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)
14. 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)
15. 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)
16. 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)

17. 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)
18. 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)
19. 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).
20. 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).
21. 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)
22. 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)
23. 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)
24. 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)
25. 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)
26. 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)
27. 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)
28. 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)

29. 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)
30. 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)
31. 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)
32. 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)
33. 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)
34. 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)
35. 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)
36. 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)
37. 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)
38. 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)
39. 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)

40. 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)
41. 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)
42. 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)
43. 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)
44. 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)
45. 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)
46. 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)
47. 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)
48. 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)
49. 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)
50. 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)

51. 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)
52. 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)
53. 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)
54. 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)
55. 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)
56. 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)
57. Phing Lau, W. C., **Latif, M. A.**, 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)
58. 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 biologiques*, 337(5), 318-324. (IF=1.583, Q2)
59. Golestan Hashemi, F. S., Rafii, M. Y., Ismail, M. R., Mohamed, M. T. M., Rahim, H. A., **Latif, M. A.**, & Aslani, F. (2015). Comparative mapping and discovery of segregation distortion and linkage disequilibrium across the known fragrance chromosomal regions in a rice F2 population. *Euphytica*, 204(3), 557-569. (IF=1.895, Q1)
60. Fatah, T., Rafii, M. Y., Rahim, H. A., Azhar, M., & **Latif, M. A.** (2014). Cloning and analysis of QTL linked to blast disease resistance in Malaysian rice variety Pongsu Seribu 2. *International Journal of Agriculture and Biology*, 16(2). (IF= 0.89, Q2)
61. Hakim, M. A., Juraimi, A. S., Hanafi, M. M., Ismail, M. R., Selamat, A., Rafii, M. Y., & **Latif, M. A.** (2014). Biochemical and anatomical changes and yield reduction in rice (*Oryza sativa* L.) under varied salinity regimes. *BioMed Research International*, 2014. (IF=3.411, Q2)

62. Rafii, M. Y., Zakiah, M. Z., Asfaliza, R., Haifaa, I., **Latif, M. A.**, & Malek, M. A. (2014). Grain quality performance and heritability estimation in selected F1 rice genotypes. *Sains Malaysiana*, 43(1), 1-7. (IF=1.009, Q3)
63. Rashid, M. H., Hossain, M. A., Kashem, M. A., Kumar, S., Rafii, M. Y., & **Latif, M. A.** (2014). Efficacy of combined formulations of fungicides with different modes of action in controlling Botrytis gray mold disease in chickpea. *The Scientific World Journal*, 2014. (IF=2.107, Q1)
64. Ali, E., Hashim, U., Mustafa, S., Man, Y. B. C., **Latif, M. A.**, Islam, K. N., ... & Rahman, M. (2012). TaqMan real-time polymerase chain reaction for the determination of pork adulteration in meat nuggets. *Journal of Food & Nutrition Research*, 51(1). (IF= 1.33)
65. Noh, A., Rafii, M., Din, A. M., Kushairi, A., Norziha, A., Rajanaidu, N., **Latif, M. A.** & Malek, M. A. (2014). Variability and performance evaluation of introgressed Nigerian dura x Deli dura oil palm progenies. *Genetics and Molecular Research*, 13(2), 2426-2437. (IF=0.583, Q3)
66. Usman, M. G., Rafii, M. Y., Ismail, M. R., Malek, M. A., & **Latif, M. A.** (2014). Capsaicin and dihydrocapsaicin determination in chili pepper genotypes using ultra-fast liquid chromatography. *Molecules*, 19(5), 6474-6488. (IF= 4.148, Q2)
67. Puteh, A. B., Mondal, M. M. A., Ismail, M. R., **Latif, M. A.** (2014). Grain Sterility in relation to Dry Mass Production and Distribution in Rice (*Oryza sativa* L.). *BioMed Research International*, art. no. 302179. (IF= 3.411, Q2)
68. Mia, M. S., Patwary, A. K., Hassan, L., Hasan, M. M., Alam, M. A., **Latif, M. A.**, Mondal, M.M.A., Puteh, A.B. 2014. Genetic diversity analysis of ginger (*Zingiber officinale Roscoe.*) genotypes using RAPD markers. *Life Science Journal*, 11 (8), pp. 90-94. (IF= 0.158, Q4)
69. Islam, M. S., Sarkar, M. A. R., Alam, M. J., Kashem, M. A., Rafii, M. Y., & **Latif, M. A.** (2014). Effect of fertilizer management on growth and yield of fragrant fine rice varieties in rainfed condition. *Research on Crops*, 15(2), 287-297. (IF= 1.38, Q4)
70. Basak, R. P., Hossain, I., Kashem, M. A., Mondal, M. M. A., Rafii, M. Y., & **Latif, M. A.** (2014). Effect of antibiotics and BAU-Biofungicide in controlling bacterial leaf blight of litchi. *Research on Crops*, 15(2), 389-393. (IF= 1.38, Q4)
71. Usman, M. G., Rafii, M. Y., Ismail, M. R., Malek, M. A., & **Latif, M. A.** (2014). Heritability and genetic advance among chili pepper genotypes for heat tolerance and morphophysiological characteristics. *The Scientific World Journal*. (IF= 2.107, Q1)
72. Oladosu, Y., Rafii, M. Y., Abdullah, N., Abdul Malek, M., Rahim, H. A., Hussin, G., **Latif, M. A.**, & Kareem, I. (2014). Genetic variability and selection criteria in rice mutant lines as revealed by quantitative traits. *The Scientific World Journal*. (IF= 2.107, Q1)
73. Alam, A., Juraimi, A. S., Rafii, M. Y., Hamid, A. A., Uddin, K., Alam, M. Z., & **Latif, M. A.** (2014). Genetic improvement of Purslane (*Portulaca oleracea* L.) and its future prospects. *Molecular biology reports*, 41(11), 7395-7411. (IF= 2.316, Q3)
74. Miah, G., Rafii, M. Y., Ismail, M. R., Puteh, A. B., Rahim, H. A., Ashkani, S., & **Latif, A.** (2015). Inheritance patterns and identification of microsatellite markers

- linked to the rice blast resistance in BC 2 F 1 population of rice breeding. *Bragantia*, 74, 33-41. (IF= 1.158, Q2)
75. Shabanimofrad, M., Yusop, M. R., Ashkani, S., Musa, M. H., Adam, N. A., Haifa, I., & **Latif, M. A.** (2015). Marker-assisted selection for rice brown planthopper (*Nilaparvata lugens*) resistance using linked SSR markers. *Turkish Journal of Biology*, 39(5), 666-673. (IF= 1.452 Q2)
  76. Ashkani, S., Rafii, M. Y., Rahim, H. A., **Latif, M. A.** (2013). Genetic dissection of rice blast resistance by QTL mapping approach using an F3 population. *Molecular biology reports*, 40(3), 2503-2515. (IF= 2.461, Q3)
  77. Ashkani, S., Rafii, M. Y., Rahim, H. A., **Latif, M. A.** (2013). Mapping of the quantitative trait locus (QTL) conferring partial resistance to rice leaf blast disease. *Biotechnology Letters*. 35: 799-810, (IF= 1.730, Q3)
  78. Mazid, M. Z., Rafii, M. Y., Hanafi, M. M., Rahim, H. A., **Latif, M. A.** (2013). Genetic variation, heritability, divergence and biomass accumulation of rice genotypes resistant to bacterial blight revealed by quantitative traits and ISSR markers. *Physiologia Plantarum* 149: 432-447. (IF= 4.5, Q1)
  79. Mazid, M. Z., Rafii, M. Y., Hanafi, M. M., Rahim, H. A., **Latif, M. A.** (2013). Agromorphological characterization and assessment of variability, heritability, genetic advance and divergence in bacterial blight resistant rice genotype. *South African Journal of Botany* 86: 15-22. (IF= 2.315, Q2)
  80. Miah, G., Rafii, M. Y., Ismail, M. R., Puteh, A. B., Rahim, H. A., Asfaliza, R., **Latif, M. A.** (2013). Blast Resistance in Rice: A Review of Conventional Breeding to Molecular Approaches. *Molecular Biology Reports* 40: 2369-2388. (IF= 2.461, Q3)
  81. Naher, U. A., Othman, R., **Latif, M. A.**, Panhwar, Q. A., Amaddin, P. A. M., Shamsuddin, Z. H. (2013). Biomolecular characterization of diazotrophs isolated from the tropical soil in Malaysia. *International Journal of Molecular Sciences* 14 (9): 17812-17829. (IF= 5.54, Q2)
  82. Golestan-Hashemi F.S., Rafii M.Y., Ismail M.R., Mahmud T.M.M., Rahim H.A., Asfaliza R., Malek M.A., **Latif, M.A.** (2013). Biochemical, Genetic and Molecular Advances of Fragrance Characteristics in Rice. *Critical Reviews in Plant Sciences* 32(6): 445-457. (IF= 5.188, Q1)
  83. Mahmoodreza, S., Rafii, M.Y., Puteri, W., Edaroyati, B., **Latif, M. A.** (2013). Phenotypic, genotypic and genetic divergence found in 48 newly collected Malaysian accessions of *Jatropha curcas* L. *Industrial Crops & Products*. 42:543 -551. (IF= 5.645, Q1)
  84. Rafii, M. Y., Isa, Z. A., Kushairi, A., Saleh, G.B., **Latif, M. A.** (2013). Variation in yield components and vegetative traits in Malaysian oil palm (*Elaeis guineensis* jacq.) dura x pisifera hybrids under various planting densities. *Industrial Crops & Products* 46: 147-157. (IF= 5.645, Q1)
  85. Ahmed, F., Rafii, M. Y., Ismail, M. R., Juraimi, A. S., Rahim, H. A., Asfaliza, R., **Latif, M. A.** (2013). Waterlogging Tolerance of Crops: Breeding, Mechanism of Tolerance, Molecular Approaches and Future Prospects. *BioMed Research International Article* ID 963525, 10 pages. (IF= 3.411, Q2)

86. Thiyagu, D., Rafii, M. Y. Mahmud, T. M. M., Sentoor, G., **Latif, M. A.** (2013). Genotype by environment assessment in sweet potato as leafy vegetable using AMMI model. *Pakistan Journal of Botany* 45(3):843-852. (IF= 0.972, Q3)
87. Thiyagu, D., Rafii, M. Y., Mahmud, T. M. M., **Latif, M. A.**, Malek, M. A., Sentoor, G. (2013). Genetic variability of sweet potato (*Ipomoea batatas* L.) genotypes selected for vegetable use. *Journal of Food, Agriculture & Environment* 11(2): 340-344. (IF= 0.435, Q4)
88. Biabani, A., Rafii, M. Y., Saleh, G. B., **Latif, M. A.** (2013). Inter- and intra-population genetic variations in *Jatropha curcas* populations revealed by inter-simple sequence repeat molecular markers. *Maydica* 58: 111-118. (IF= 0.542, Q4)
89. Sohrabi, M., Rafii, M. Y., Hanafi, M. M., **Latif, M. A.** (2013). Genetic divergence of Malaysian upland rices revealed by microsatellite markers. *Plant Omics* 6(3): 175-182. (IF= 0.645, Q4)
90. Ali, M. E., Hashim, U., Dhahi, T., Mustafa, S., Man, Y. B. C., & **Latif, M. A.** (2012). Analysis of pork adulteration in commercial burgers targeting porcine-specific mitochondrial cytochrome B gene by TaqMan probe real-time polymerase chain reaction. *Food Analytical Methods*, 5(4), 784-794. (IF=3.366; Q2)
91. Myint, K.A., Rafii, M.Y., Sheikh-Abdullah, S.A., Mohd, Din A., **Latif, M. A.** (2012) Determination of the optimum pollen germination medium for different fruit forms of oil palm. *Journal of Animal & Plant Sci.* 14 (1): 1855-1865. (IF= 0.59)
92. Mishu, H. M., Ahmed, F., Rafii, M. Y., Faruq, G., **Latif, M. A.** (2013) Effect of sulphur on growth, yield and yield attributes in onion (*Allium cepa* L.) *Australian Journal of Crop Science* 7(9): 1416-1422 (IF= 0.725)
93. Kabir, M. H., Rashid, M. M., Bhuiyan, M. R., Mian, M. S., Ashrafuzzaman, M., Rafii, M. Y., & **Latif, M. A.** (2014). Integrated management of Alternaria blight of broccoli. *J. Pure Applied Microbiol*, 8, 149-158. (IF= 0.483, Q4)
94. Ashkani, S., Rafii, M. Y., Rusli, I., Sariah, M., Abdullah, S. N. A., Abdul Rahim, H., & **Latif, M. A.** (2012). SSRs for marker-assisted selection for blast resistance in rice (*Oryza sativa* L.). *Plant Molecular Biology Reporter*, 30(1), 79-86. (IF= 1.53, Q1)
95. Hussain, M. Z., Rahman, M. A., Islam, M. N., **Latif, M. A.**, & Bashar, M. A. (2012). Morphological and molecular identification of *Fusarium oxysporum* Sch. isolated from guava wilt in Bangladesh. *Bangladesh Journal of Botany*, 41(1), 49-54. (IF= 0.308, Q4)
96. Rafii, M. Y., Shabanimofrad, M., Puteri Edaroyati, M. W., & **Latif, M. A.** (2012). Analysis of the genetic diversity of physic nut, *Jatropha curcas* L. accessions using RAPD markers. *Molecular Biology Reports*, 39(6), 6505-6511. (IF= 2.316, Q3)
97. Mondal, M. M. A., Puteh, A. B., Malek, M. A., Ismail, M. R., Rafii, M. Y., & **Latif, M. A.** (2012). Seed yield of mungbean (*Vigna radiata* (L.) Wilczek) in relation to growth and developmental aspects. *The Scientific World Journal*, 2012. (IF= 2.107, Q1)
98. Bahari, M., Rafii, M. Y, Saleh, G. B., **Latif, M. A.** (2012). Combining ability analysis in complete diallel cross of watermelon, *Citrullus lanatus* (Thunb.) Matsum. & Nakai. *The Scientific World Journal* Volume 2012, Article ID 543158, 6 pages (IF= 2.107, Q1)

99. Noh, A., Rafii, M. Y., Saleh, G., Kushairi, A., & **Latif, M. A.** (2012). Genetic performance and general combining ability of oil palm Deli dura x AVROS pisifera tested on inland soils. *The Scientific World Journal*, 2012. (IF= 2.107, Q1)
100. Sohrabi, M., Rafii, M. Y., Hanafi, M. M., Siti Nor Akmar, A., & **Latif, M. A.** (2012). Genetic diversity of upland rice germplasm in Malaysia based on quantitative traits. *The Scientific World Journal*, 2012. (IF= 2.107, Q1)
101. Rafii, M. Y., Jalani, B. S., Rajanaidu, N., Kushairi, A., Puteh, A., & **Latif, M. A.** (2012). Stability analysis of oil yield in oil palm (*Elaeis guineensis*) progenies in different environments. *Genetics and Molecular Research*. (IF= 0.583, Q4)
102. Biabani, A., Rafii, M. Y., Saleh, G. B., Shabanimofrad, M., & **Latif, M. A.** (2012). Phenotypic and genetic variation of *Jatropha curcas* L. populations from different countries. *Maydica*, 57(2), 164-171. (IF= 0.542, Q4)
103. Alireza, B., Rafii, M. Y., Ghizan, S., Mahmoodreza, S., & **Latif, M. A.** (2012). Combining ability analysis and evaluation of heterosis in *Jatropha curcas* L. *Australian Journal of Crop Science*, 6(6), 1030-1036. (IF= 0.725, Q2)
104. Arolu, I. W., Rafii, M. Y., Hanafi, M. M., Mahmud, T. M., & **Latif, M. A.** (2012). Molecular characterization of '*Jatropha curcas*' germplasm using inter simple sequence repeat (ISSR) markers in Peninsular Malaysia. *Australian Journal of Crop Science*, 6(12), 1666-1673. (IF= 0.725, Q2)
105. Thiyagu, D., Rafii, M. Y., Mahmud, T. M., & **Latif, M. A.** (2012). Stability analysis of sweetpotato (*Ipomoea batatas* Lam.) shoot tips yield for leafy vegetable across agro-ecologies using AMMI. *Australian Journal of Crop Science*, 6(11), 1522-1526. (IF= 0.725, Q2)
106. Mondal, A. H. and **Latif, M. A.**, (1996). Effect of fertilizers on the incidence of bacterial leaf blight (BLB) and yield loss in rice (*Oryza sativa* L.) cv. Purbachi. *Bangladesh. J. of Botany*, 25 (2): 121-126. (IF= 0.308, Q4)
107. Hossain, M. A., Ali, M. A., **Latif, M. A.**, and Mondal, A. H. (1997). Inoculation techniques for screening rice cultivars against bacterial leaf streak disease. *Bangladesh J. of Botany*, 26 (1): 43-49. (IF= 0.308, Q4)
108. Mahmoodreza, S., Rafii, M.Y., Said, M.S., Edaroyati, M. W. P., Alireza, B., **Latif, M. A.** (2011). Diversity of physic nut, *Jatropha curcas* in Malaysia–application of DIVA-GIS and cluster analysis. *Australian Journal of Crop Science* 5(4): 361-368 (IF= 0.725, Q2)
109. Ashkani, S., Rafii, M. Y., Sariah, M., Siti, N. A. A., Rusli, I., Harun, A. R., & **Latif, M. A.** (2011). Analysis of simple sequence repeat markers linked with blast disease resistance genes in a segregating population of rice (*Oryza sativa*). *Genet Mol Res*, 10(3), 1345-1355. (IF= 0.583, Q4)
110. Ali, M. E., Hashim, U., **Latif, M. A.**, & Mustafa, S. (2011). Nanobiosensor for detection and quantification of swine specific DNA sequences in degraded mixed meats. *Journal of Nano Materials* (JNM). vol. (2011), art. No. 781098 vol. (2011):1-11. (IF= 2.986; Q2)
111. Ahmed, N., Eunus, M., **Latif, M. A.**, Ahmed, Z. U., & Rahman, M. (2011). Effect of nitrogen on yield, yield components and contribution from the pre-anthesis

assimilates to grain yield of three photosensitive rice (*Oryza sativa* L.) cultivars. *Journal of the National Science Foundation of Sri Lanka*, 26(1). (IF= 0.515)

112. Saleh, A. K. M., **Latif, M. A.**, Khan, M. A. I., Rahman, H., & Uddin, M. K. (2003). Prevalence of fungi in mustard seeds grown and stored at different locations of Dhaka Region, Bangladesh and their control. *Pak J Biol Sci*, 6, 995-997. (IF= 1.036)
113. Tajul, M. I., Sariah, M., Latif, M. A., & Toyota, K. (2011). Effect of cold-water irrigation on bacterial wilt pathogen of tomato. *International Journal of Pest Management*, 57(4), 341-345. (IF= 0.718; Q3)
114. Marhalil, M., Rafii, M. Y., Afizi, M. M. A., Arolu, I. W., Noh, A., Mohd Din, A., **Latif, M. A.**, & Malek, M. A. (2013). Genetic variability in yield and vegetative traits in elite germplasm of MPOB-Nigerian dura x AVROS pisifera progenies. *Journal of Food, Agricultures & Environment*, 11, 515-519. (IF= 0.152).
115. Rafii, M. Y., Arolu, I. W., Omar, M. H. A., & **Latif, M. A.** (2012). Genetic variation and heritability estimation in *Jatropha curcas* L. population for seed yield and vegetative traits. *Journal of Medicinal Plants Research*, 6(11), 2178-2183. (IF= 0.427)

## **B. Other International & National Journal**

### **a. Principal author: 21 (Twenty-one)**

1. **Latif, M. A.**, & Mian, I. H. (1995). Fungal hosts and gnotobiotic culture of *Ditylenchus angustus*. *Nematological Research (Japanese Journal of Nematology)*. 25(1), 11-15.
2. **Latif, M. A.**, Rahman, M. M., Kabir, M. S., Ali, M. A., Rafii, M. Y. (2011). Genetic diversity analyzed in rice (*Oryza sativa* L.) genotypes resistant to blast disease using quantitative traits. *African Journal of Microbiological Research* 5(25): 4383-4391.
3. **Latif, M. A.**, Ullah, W. W., Rafii, M. Y., Tajul, M. I. (2011). Management of ufra disease of rice caused by *Ditylenchus angustus* with nematicides and resistance. *African Journal of Microbiological Research* 5(13):1660-1667.
4. **Latif, M. A.**, Rafii, M. Y., Haque, A., Jahan, Q. S. A., Hossain, M. A. (2011). Cost-effective management of ufra disease of rice and identification of resistant landraces. *Scientific Research and Essays* 6(13): 2668-2675.
5. **Latif, M. A.**, Badsha, M. A., Tajul, M. I., Kabir, M. S., Rafii, M. Y., Mia, M. A. T. (2011). Identification of genotypes against blast, bacterial leaf blight, sheath blight and tungro and efficacy of seed treating fungicides against blast disease of rice. *Scientific Research and Essays* 6(13): 2804-2811.
6. **Latif, M. A.**, M. A. Ali, S. Akter, M. Hossain, Q.S. A. Jahan, M. S. Kabir, N. R. Sharma, M.M. Rahman and M.A. T. Mia. (2009). Screening of genotypes, organic amendments and antagonistic bacteria for the management of sheath blight disease of rice. *Eco-friendly Agril. J.* 2(7): 706-712.

7. **Latif, M. A.,** M. W. Ullah, M. R. Islam, T.H. Ansary, and M. H. Kabiir, 2008. Varietal screening and management of ufra disease of rice. *Intl. J. BioRes.* 5(1): 54-62.
8. **Latif, M. A.,** M. M. Rahman, M. Iftekharuddaula, M. A. T. Mia and M. S. Ali. (2007). Genetic variability of blast resistant genotypes using minisatellite and simple sequence repeat (SSR) markers. *Mol. Biol. & Biotech.*, 5(1&2): 19-23.
9. **Latif, M. A.,** M. M. Rahman, M. A. Hossain, M. A. T. Mia and M. S. Ali. (2007). Molecular characterization of tungro resistant genotypes of rice. *Intl. J. BioRes.* 3(3): 19-26.
10. **Latif, M. A.,** A.K. M. Saleh, M. A.I. Khan, H. Rahman and M. A. Hossain. (2006). Efficacy of some plant extracts in controlling seed borne fungal infections of Mustard. *Bangladesh J. Microbiol.* 23(2):168-170.
11. **Latif, M. A.,** S. Akter, M. S. Kabir, M. A. Ali, M. A. Hossain and M.L. Rahman. (2006). Efficacy of some organic amendments for the control of ufra disease of rice. *Bangladesh J. Microbiol.* 23(2):116-120.
12. **Latif, M. A.,** S.G. Tan, M. Y. Omar and S. S. Siraj (2005). Analysis of esterase activity levels associated with insecticide resistance in rice and weed infesting populations of *Nilaparvata lugens* (stål). *Intl. J. of Sustainable Agric. Technol.*, 1(6): 55-62.
13. **Latif, M. A.,** M. Y. Omar, S.G., Tan, S. S. Siraj and M. S. Ali (2005). Inheritance studies of RAPD-PCR molecular markers in two sympatric populations of brown planthopper, *Nilaparvata lugens* (stål). *Intl. J. of Sustainable Agric. Technol.*, 1(6): 63-68.
14. **Latif, M. A.,** S.G. Tan, S. S. Siraj and M. Y. Omar (2005). Dose host plant DNA contaminate brown planthopper's DNA? - A short and long primer RAPD-PCR analysis. *Bangladesh J. of Progr. Sci. and Technol.*, 3(1):13-18.
15. **Latif, M. A.,** Badsha, M. A., Kabir, M. S., & Nasrin, S. (2005). Screening of genotypes against four major diseases and efficacy of three fungicides in controlling blast disease of rice. *Bangladesh Journal of Progressive Science and Technology*, 3(1), 85-88.
16. **Latif, M. A.,** M. Y. Ali, M. R. Islam and M. L. Rahman. (2004). Effect of three nematicides for the control of ufra disease of rice. *J. of Agric. Edu. and Technol.*, Vol. 5(1&2): 29-32.
17. **Latif, M. A.,** M. R. Islam, M. Y. Ali, M. Hossain and M. L. Rahman. (2004). Efficacy of three nematicides for the control of Ufra disease of rice. *J. Agric. Science and Technology*, Vol. 5(1&2): 8-12.
18. **Latif, M. A.,** T. H. Ansari, M. Rahman and M. A. Bakr. (1998). Mass culture of white tip nematode (*Aphelenchoides besseyi*) and effect of temperature and its survival in rice grain. *Bangladesh Rice Journal.* Vol. 9 (1&2):7-10.

19. **Latif, M. A.,** M. L. Rahman, M. A. Bakr and M. M. Rahman. (1997). Evaluation of inoculation method for white tip disease of rice. *Annals of Bangladesh Agric.*, 7(1): 15-19.
20. **Latif, M. A.,** M. R. Bahar and I. H. Mian. (1996). Ufra influence on severity of Blast, Brown spot, Sheath blight of rice. *Bangladesh J. of Scientific and Indust. Res.*, 31 (4): 139-147.
21. **Latif, M. A.,** and I. H. Mian. 1992. Population dynamics of *Ditylenchus angustus* associated with leaf sheath and panicle of rice. *Bangladesh J. of Plant Pathol.*, 8(1&2): 31-34.

**b. Co-author: 34 (Thirty-Four)**

1. Nihad SAI, Hasan MAI, Anik TR, Rashid MM, Khan MAI, Islam MR, **Latif MA.** 2023. Pyramiding of blast and bacterial blight resistance genes in premium quality rice variety, BRRI dhan63 through marker-assisted breeding approach. *Euphytica* 220, 13. <https://doi.org/10.1007/s10681-023-03255-5>
2. QM Mahmud, MAI Khan, AM Akanda, MM Hossain, **MA Latif,** R Akter, MM Hossain. 2023. Antifungal Potential of Commercial Silver Nano-particles against Rice Blast Pathogen (*Magnaporthe oryzae*). *Ann. Bangladesh Agric.* 27 (1) : 77-90.
3. MAI Khan, N Ausraf, MAA Muhit, TR Anik, MR Bhuiyan, R Akhtar, AKMS Islam, MM Rashid, S Akter, M Ashaduzzaman, **MA Latif.** 2023. Microwave assisted synthesis of starch stabilized silver nanoparticles with antipathogenic activities. 2023. International Symposium for the 50 years of BRRI. p-51.
4. MR Bhuiyan, MAI Khan, MM Rashid, B Nessa, A Ara, MA Ali, **MA Latif.** 2023. Efficacy of rice disease management package at field level to boost rice production. International Symposium for the 50 years of BRRI. p-102
5. MR Bhuiyan, MAI Khan, MM Rashid, MA Hamid, N Hasan, **MA Latif.** 2023. Evaluation of Recharge and Bioryza against major rice diseases for better harvest. International Symposium for the 50 years of BRRI. p-103.
6. MM Rashid, MS Mian, SAI Nihad, M Hossain, A Islam, FH Khan, AKM Shalahuddin, T Ferdous, B Saha, A Ara, MR Bhuiyan, MAI Khan, TH Ansari, **MA Latif.** 2023. Factors affecting rice tungro disease and its management technology in Cumilla region. International Symposium for the 50 years of BRRI. p-97.
7. MAI Khan, MR Bhuiyan, MM Rashid, SM Shahidullah, **MA Latif.** 2023. Determination of crop damage phenomenon by Red Eelworm. International Symposium for the 50 years of BRRI. p-100
8. FI Rodru, N Ausraf, QM Mahmud, MS Islam, MM Hossain, MR Quddus, M Ahmed, MR Bhuiyan, MM Rashid, MHR Hera, A Ara, TH Ansari, **MA Latif,** MAI Khan. 2023. Characterization and management of seedling blight pathogen in seedling tray for enhancing mechanized cultivation in Bangladesh. Paper presented in the 6th International Rice Congress, Manila, Philippines held on 16-19 October, 2023.
9. MAI Khan, MR Quddus, N Ausraf, MA Bakar, MR Bhuiyan, MM Rashid, MHR Hera, SAI Nihad, HA Dilzahan, A Ara, M Ahmed, MS Rahman, **MA Latif.** 2023. Genome-wide association mapping revealed novel genomic loci for blast resistance in Bangladesh rice landraces. Paper presented in the 6th International Rice Congress, Manila, Philippines held on 16-19 October, 2023.

10. Mohammad Ashik Iqbal Khan, Sudipto Das, Mahmuda Khatun, Nur Ausraf, Md. Hasibur Rahaman Hera, Md.Rejwan Bhuiyan, Md. Mamunur Rashid, Anjuman Ara, Khandakar Md Iftekharuddaula, **Md. Abdul Latif**. 2023. Xa21 Gene-Derived Lines Reveal Robust Bacterial Leaf Blight (BLB) Disease Resistance in Rice Against Bangladeshi Strains. Paper presented in the 6th International Conference on Bacterial Blight of Rice, Manila, Philippines held on 16-19 October, 2023.
11. Anowara Akhtar, Luthful Hassan, Mohammad Jamil Hassan, Arif Hassan Khan Robin and **MA Latif**. 2023. Pyramiding of bacterial blight resistance into the restorer line of hybrid rice using marker assisted backcrossing. Presented at International symposium for 50 years Glory and Success of Bangladesh Rice Research Institute theme: Half a Century of Rice Research at BIRRI Ensuring Food Security in Bangladesh, held on 23-24 February, 2023. 73p
12. SAI Nihad, A Kabir, M Ahmed, MM Rashid, HA Dilzahan, MAI Khan, TH Ansari and MA Latif. 2023. Persistence of Tungro Bacilliform virus in infected rice leaves. Presented at International symposium for 50 years Glory and Success of Bangladesh Rice Research Institute theme: Half a Century of Rice Research at BIRRI Ensuring Food Security in Bangladesh, held on 23-24 February, 2023.104p
13. Omar, M. Y., **Latif, M. A.**, & Tan, S. G. (2000). DALP (Direct Amplification Of Length Polymorphism): a PCR based DNA fingerprinting method in brown planthopper, *Nilaparvata lugens* (STAL) (Homoptera: Delphacidae). *Malaysian Society of Plant Physiology*.9: 121-124.
14. Mian, I. H., & **Latif, M. A.** (1994). Ultrastructure and Morphometrics of *Ditylenchus angustus* (BUTLER, 1913) FILIPJEV, 1936 (Nematoda: Anguinidae). *Nematological Research (Japanese Journal of Nematology)*. 24(1), 14-19.
15. Bhuiyan, M. R., Rashid, M. M., Khan, M. A., Hoque, M., Nessa, B., Rafi, M. Y., & **Latif, M. A.** (2013). Eco-friendly management of seed borne fungi for sustainable crop production. *Life Science Journal*, 10(4), 1640-1650.
16. Islam, A. M., Rahman, J. R., Nihad, S. A. I., Akter, R., Dilzahan, H. A., Islam, M. Z., Bhuiyan, M. R., Kabir, M. H., Rashid, M. M., Islam, M. Z., **Latif, M. A.**, Khan, M. A. I. (2017). Evaluation of indigenous rice germplasm for identification of durable bacterial blight (*Xanthomonas oryzae* pv. *oryzae*) resistance sources in Bangladesh. *The Experiment*. 43 (3): 2495-2515.
17. Akter, S., **Latif, M. A.**, Mia, A.T., Islam, M.T., Rafii, M.Y. (2013). Efficacy of fungicides against grain spot disease in rice (*Oryza sativa*). *Life Science Journal*. 10 (4) 3005-3008.
18. Islam, M.S., Sarkar, M. A. R., Alam, M. J., Kashem, M. A., Rafii, M. Y., **Latif, M. A.** (2013). Optimizing of planting density on the growth and yield of aromatic fine rice in rainfed condition. *Life Science Journal*, 10 (4) 3009-3016.
19. Morshed, M.G., Kashem, M.A., Hossain, I., Rafii, M.Y., **Latif, M.A.** (2014). Effect of fungicides in controlling root rot (*Fusarium solani*) of chickpea. *Life Science Journal*, 11 (2), pp. 99-102.
20. Basak, R. P., Hossain, I., Kashem, M. A., Mondal, M. M. A., Rafii, M. Y., & **Latif, M. A.** (2014). Management of bacterial leaf blight of mango through antibiotics and bio-fungicide. *Research on Crops*, 15(2), 383-388.
21. Islam, M. S., Sarkar, M. A. R., Alam, M. J., Kashem, M. A., Rafii, M. Y., & **Latif, M. A.** (2014). Effect of date of transplanting on yield and yield attributing characters of aromatic fine rice in rainfed condition. *Research on Crops*, 15(2), 305-312.
22. Rashid, M M, Bhuiyan, M. R., Dilzahan, H. A., Hamid, M. A., Hasan, N., Khan, M. A. I., & **Latif, M. A.** (2020). Biological Control of Rice Sheath Blight Disease

- (*Rhizoctonia solani*) Using Bio-pesticides and Bio- control agents. *Bangladesh Rice Journal*, 24(1), 47–58.
23. Akter M.A., F. Ahmed, **Latif M A** & Ara, A. (2020). Genetic Variability, Heritability, Correlation and Path Coefficient Studies for Yield and Yield Components of Some Promising Rice Hybrids. *Bangladesh Rice Journal*, 23(2), 27–34.
  24. Ansari, T. H., Ahmed, M., Akter, S., Mian, M. S., **Latif, M. A.**, & Tomita, M. (2019). Estimation of rice yield loss using a simple linear regression model for bacterial blight disease. *Bangladesh Rice Journal*, 23(1), 73-79.
  25. Monsur M.A., Ahmed M., Haque A., Jahan Q.S.A., Ansari T.H., **Latif M.A.**, Borma N.C.D., Ali M.A., Kabir M.S. and Banik B.R. 2017. Cross Infection between Rice and Wheat Blast Pathogen *Pyricularia oryzae*. *Bangladesh Rice Journal*. 20 (2): 21-29.
  26. Nessa, B., Salam, M. U., Haque, A. M., Biswas, J. K., **Latif, M. A.**, Ali, M. A., & Galloway, J. (2015). Rice false smut disease at different flowering times. *Bangladesh Rice Journal*, 19(2), 28-35.
  27. Momtaz, R., Baten, M.A., **Latif, M. A.**, N. Sultana, N., and Mia, M. A. T. (2008). Survey of bakanae incidence in seedbed and screening rice varieties against the disease. *Bangladesh Journal of Plant Pathology*, vol 24 (1&2):37-40.
  28. Kabir, M. S., Salam, M. U., Chowdhury, A., Rahman, N. M. F., Iftekharuddaula, K. M., Rahman, M. S., **Latif, M. A.**, & Biswas, J. K. (2015). Rice vision for Bangladesh: 2050 and beyond. *Bangladesh Rice Journal*, 19(2), 1-18.
  29. Haque, A., Bhuiyan, M. R., Islam, S., Zaman, M. A. U., **Latif, M. A.**, and Ali, M. A. (2013). Integrated management of Ufra (*Ditylenchus angustus*) Disease of Rice. *Eco-friendly Agril. Journal* 6(12): 285-290.
  30. Hossain, M. A., Kabir, M. S., Akter, S., **Latif, M. A.**, and Mia, M. A. T. (2008). Isolation of antagonistic bacteria and their effectiveness against sheath blight disease of rice. *Journal of Microbial World*. 10(2):181-190.
  31. Islam M.T., Dzolkhifli, O., **Latif, M. A.**, and Morshed, M. M. (2011). The integrated use of entomopathogenic fungus, *Beauveria bassiana* with botanical insecticide, neem against *Bemisia tabaci* on eggplant. *African Journal of Microbiology Research*, 5(21): 3409-3413.
  32. Akter, S., Mian, M. S., Kabir, M. S., **Latif, M. A.**, & Mia, M. (2005). AT., Avirulent *Rhizoctonia oryzae* controlling sheath blight of rice under field condition. *Bangladesh Journal of Plant Pathology*, 21(1/2), 89-91.
  33. Alam, M. S., **Latif, M. A.**, Shahidullah, S. M., & Ashrafuzzman, M. (1989). Effect of sulphur, zinc, boron and molybdenum on yield, yield components and protein content of wheat. *Progress. Agric*, 10, 83-86.
  34. Mian, I. H., **Latif, M. A.**, Bahar, M. R., and Rahman, M. L. (1994). Nematicides and mustard oil cake to control ufra of rice. *Bangladesh J. of Plant Pathol.*, 10(1 & 2): 5-10.

### C. Books/Book Chapters/ Booklets

#### a. Principal author: 02 (Two)

1. **Latif, M. A.**, Kabir, M. S., Sharma, N. R., and Hossain M. A. (2007). Integrated management of five major diseases of rice. (Dhaner pachtu prodhan roger somonnito babostapona- in Bangla). 1st edition, published by Bangladesh Rice Research

- Institute (BRRRI), Gazipur 1701, Bangladesh. Publisher: Director General, BRRRI Gazipur-1701.
2. **Latif, M. A.**, Rahman M. M., and Taher Mia M. A. (2006). Sheath blight disease complex in the field and its management (Mathe sheath blight ba kholpora roger jatilota o tar pratikar- In bangla). 1st edition, published by Bangladesh Rice Research Institute (BRRRI), Gazipur 1701, Bangladesh, Publisher: Director General, BRRRI Gazipur-1701.
- b. Co- author: 11 (Eleven)**
1. Rahman, M. M., Masud, M. M., Hossain, M. I., Alam, M. Z., Rashid, M. M., Khan, M. A. I., **Latif, M. A.**, & Islam, M. R. (2021). Potential role of rice plant growth promoting phylloplane and rhizospheric bacteria in controlling *Xanthomonas oryzae* pv. *oryzae*. In Integrative advances in rice research. *IntechOpen*.
  2. Ahmed, F., Abro, T. F., Kabir, M., & **Latif, M. A.** (2020). Rice quality: Biochemical composition, eating quality, and cooking quality. In *The Future of Rice Demand: Quality Beyond Productivity* (pp. 3-24). *Springer, Cham*.
  3. Lau, W. C. P., & **Latif, M. A.** (2019). Current breeding approaches for developing rice with improved grain and nutritional qualities. In *Quality breeding in field crops* (pp. 199-216). *Springer, Cham*.
  4. Akter, S., Mia, M. A. T., Kabir, M. S., & **Latif, M. A.** (2017). Effect of sheath rot (*Sarocladium oryzae*) on rice seed health. In *World Sustainable Development Outlook 2007* (pp. 210-215). *Routledge*.
  5. Rafii, M.Y., Bahari, M., Saleh, G., **Latif, M. A.** (2011). Chapter 4: Combining Ability in Relation to D
  6. iallel Crosses of Watermelon, *Citrullus lanatus* (Ed. Wan Nordin et al.). *Recent Advances In Crop Science*, Universiti Putra Malaysia Press, pp52-63.
  7. Kashem, M. A., Bhuiyan, M. K. A ., Nasim, M. M. Haque, M. S. S., **Latif, M. A.**, et al., (2017). Boro rice cultivation method and its management. *1st edition, published by Bangladesh Rice Research Institute (BRRRI), Publisher: Director General, BRRRI Gazipur-1701.p79*.
  8. Badshah, M. A., Khan, M. A. I., Bari, M. N., **Latif, M.A.** et. al (2017). Steps for safe boro cultivation in haor areas. 1st edition, published by Bangladesh Rice Research Institute (BRRRI), *Published by Bangladesh Rice Research Institute, Publisher: Director General, BRRRI Gazipur-1701*
  9. Ali, M. A., Kamal, M. M., **Latif, M. A.**, and T.H. Ansari (2016). Rice diseases. In: *Problems of rice cultivation: (Dhan Chaser Somosya: Ditio ansho, Dhaner rog balai- in Bangla)*. *5th edition, Published by Bangladesh Rice Research Institute, Publisher: Director General, BRRRI Gazipur-1701*.
  10. Islam, M. S., Islam, M. R., Haque, M. S. S., Kashem, M. A., **Latif, M. A.**, Iftexharuddaula, K. M., and Halder, K. P., 2020, Things to Do for Increasing Yield of

Boro Rice, 1st Edition, 32 pages, *Published by Bangladesh Rice Research Institute, Publisher: Director General, BRRI Gazipur-1701.*

11. Biswas, J. K., Kabir, M. S., **Latif, M. A.**, and Kashem, M. A. (2014), About BRRI: a very short introduction, Published by Bangladesh Rice Research Institute, *Published by Bangladesh Rice Research Institute, Publisher: Director General, BRRI Gazipur-1701.*

#### **D. Bulletins / Folders**

##### **a. Principal Author: 05 (Five)**

1. **Latif, M. A.** and M. R. Islam (2003). Rice stripe: A newly recorded viral disease in Bangladesh. *SAIC Newsletter*, Vol. 13 (4), p. 9.
2. **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.
3. **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.
4. **Latif, M. A.**, M. A. Kader, M. A. Hossain and P. K. S. Ray (2004). Bakanae: A harmful and major disease of rice (Bakanae: dhaner ekti khotikarok abong prodhan rog-in Bengali). BRRI Regional Station, Comilla. Funded by PETRRA/DFID.
5. **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.

##### **b. Co-author: 08 (Eight)**

1. Rashid MM, Saha B, Ferdous T, Husna T, Salahuddin AKM, Nihad SAI, Ara A, Bhuiyan MR, Mian MS, Khan MAI, Hossain M, Ansari TH, Islam MR, **Latif MA.** October 2023. Farmers approaches in the seedbed to control rice tungro disease (Leaflet). Bangladesh Rice Research Institute, Regional Station, Cumilla. 3rd Edn. 10000 copy. BRRI Publication No. 385.
2. Rashid MM, Saha B, Ferdous T, Husna T, Salahuddin AKM, Nihad SAI, Ara A, Bhuiyan MR, Mian MS, Khan MAI, Hossain M, Ansari TH, Islam MR, **Latif MA.** October 2023. Farmers' steps to control rice blast disease (Leaflet). Bangladesh Rice Research Institute, Regional Station, Cumilla. 10000 copy. BRRI Publication No. 386.
3. Jahan, Q. S. A., **M. A. Latif**, A. Haque, M.K.A. Bhuiyan and MA ALI (2016). Steps for farmers to control rice blast disease (Dhaner blast rog domone kreshoker koronio - in Bengali). Plant Pathology Division, BRRI Gazipur-1701. Funded by PGB Project.

4. 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.
5. 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.
6. Sarker, ABS and **M. A. Latif** (2003). Rice production in System of Rice Intensification (SRI) practices- a new technology for resource poor farmers (Bangladeshe SRI paddhatite dhan chas- daridra krishoker dhan utpadan briddir ek natun sambhabona- in Bangla). Published and funded by PETRRA, IRRI, Bangladesh.
7. 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.
8. 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.

## **E. Seminar/Workshop/Symposium Proceedings**

### **a. Principal Author: 26 (Twenty-Six)**

1. **Latif MA**, SAI Nihad, MAI Hasan, TR Anik, MR Bhuiyan and MAI Khan. 2023. Identification of Physiological races, gene deployment and durable resistance of Bacterial Blight, Blast and Tungro diseases in Bangladesh. International Symposium for the 50 years of BRRI. p-50.
2. **Latif MA**, SI Babor, MAI Khan, S Akter, R Akter, MHR Hera, and MR Bhuiyan. 2023. Green Synthesis, Characterization of Nano-particles and their Efficacy against Sheath blight and Bacterial blight diseases of Rice-An Eco-friendly approach. International Symposium for the 50 years of BRRI. p-101
3. **Latif MA**, AKM Shafiqul Islam, MAI Khan, S Akhter, R Akhter, MHR Hera, MA Monsur and Mr Bhuiyan 2023. Biosynthesis Characterization of Nano-Particles and Efficacy of Nanomadiated Pesticides Against Sheath Blight and Bacterial Blight Disease of Rice in Bangladesh. International Conference on Biodiversity, Food Security, Sustainability and Climate Change ICBFSCCC- 2023 On the eve of Platinum Jubilee Celebration of College of Agriculture, Jorhat, Assam, India; held on 25-28 April, 2023. 24p

4. **Latif MA**, SAI Nihad and MAI Khan. 2023. QTL mapping of rice tungro virus resistance in land race Kumragoir. International Conference on Biodiversity, Food Security, Sustainability and Climate Change ICBFSCCC- 2023 On the eve of Platinum Jubilee Celebration of College of Agriculture, Jorhat, Assam, India; held on 25-28 April, 2023. 63p
5. **Latif M.A.**, M. Y. Rafii, S. Ashkani, G. Miah, M. Shabanimofrad, M. M. Hssan, F. Ahmed and M. R. Ismail. 2014. QTL mapping and marker assisted backcrossing for varietal improvement of rice: a upm perspective of current status. UPM-Shizuoka university international colloquim. Building partnership towards excellence in Agri-bio research and development. Universiti Putra Malaysia, 3rd March, 2014. p15.
6. **Latif M.A.**, M.M. Rahman, S. Ashkani, and M.Y. Rafii. 2013. Inheritance pattern of microsatellite and VNTR markers and genetic divergence of rice genotypes resistant to tungro virus. International conference on crop improvement (ICCI), Issues and prospect for biotechnology intervention, Bangi, Malaysia, 25-26 November 2013. p38.
7. **Latif M.A.**, Rafii M.Y., Mazid M.S., Ashkani S., Rahim H.A. (2012). Development of durable blast, bacterial blight and brown planthopper resistant rice varieties through marker assisted selection: Concept of differential systems and physiological races or biotypes. Abstracts of the First Plant Breeding Seminar - Advances in Plant Improvement, 3-5 July 2012, Serdang, Selangor. p47.
8. **Latif, M. A**, M. M. Rahman, M. M. Rahman and M. A. T, Mia 2009. Molecular characterization of tungro and blast resistant genotypes using minisatellite and simple sequence repeat (SSR) markers. In abstract: 6th International genetics symposium and 7th International symposium on rice functional genomics, 16-19 November, 2009, Manila, Philippine, Pp.109-110.
9. **Latif, M. A.**, M. R. B. Talukdar, M. M. Rahman, M. Iftekharuddaula, M.S. Ali and M. A. T. Mia. 2008. Biodiversity of ufra and blast resistant genotypes using VNTR-PCR and SSR-PCR DNA fingerprints. In abstract "International Conference on Biotechnology" June 7-8, 2007, BARC, Dhaka, Bangladesh. P. 22.
10. **Latif M. A.**, M. W. Ullah, M. R. Islam and M. A. Hossain (2007). Screening of rice genotypes and management of ufra disease of rice. In proceedings "International Conference on Emerging Issues on Research and Development, April 4-6, 2007, Kathmandu, Nepal. Pp. 1-6.
11. **Latif, M. A.**, M. A. T. Mia and M. A. Hossain (2006). Yield loss, integrated management approaches and development of a quick screening method of bakanae disease of rice in Bangladesh. In abstract: 2nd International Rice Congress, October 9-13, 2006, New Delhi, India, P. 409.
12. **Latif, M. A.**, S. G. Tan, S.S. Siraj and M. Y. Omar (2006). Development of a biological species in Nilaparvata lugens complex: An evolution. In abstract: 2nd International Rice Congress, 9-13 October, 2006, New Delhi, India. P. 254.

13. **Latif M. A.**, S. G. Tan, S.S. Siraj and M. Y. Omar (2005). Evidence of sibling species in brown planthopper, *Nilaparvata lugens* complex. In abstract: 5th International genetics symposium and 3rd International rice functional genomics symposium, 19-23 November, 2005, Manila, Philippine, P. 139.
14. **Latif, M. A.**, M. Y. Ali and M. Harun Ar-Rashid (2004). An improved rice cultivation package for high fertile low-lying areas. Proc. Of Technology Development Workshop, 23-24 May, 2004, Organised by PETRRA-IRRI and BRRI. BRRI Auditorium, Gazipur-1701, Bangladesh, Pp. 116-119.
15. **Latif M. A.** and M. M. Rahman (2004). Efficacy of Organic amendments for the control of sheath blight disease of rice. In abstract "6th biennial conference, Bangladesh Phytopathological Society, 29th July, 2004, BARI, Gazipur, P. 47.
16. **Latif, M. A.**, R. Islam and Y. Ali. (2004). Verification of components of the system of rice intensification (SRI) and comparison with best conventional management practices in Bangladesh. Abstract of World Rice Research Conference, 5-7th November, 2004, Tsukuba, Japan, P.384.
17. **Latif, M. A.** and M. Harun Ar-Rashid (2003). Validation of System of Rice Intensification (SRI) in eastern part of Bangladesh. Proc. Of the National workshop on SRI, 24th December, 2003, IDB Bhaban, Agargaon, Dhaka, Bangladesh, Pp. 66-80.
18. **Latif, M. A.**, S.G., Tan, M. Y. Omar, S. S. Siraj and A. R. Ismail (2000). Inheritance of Long Primer Random Amplified Polymorphic DNA (LP-RAPD) molecular markers in brown planthopper, *Nilaparvata lugens*. Proc. Of the 4th National Congress on Genetics, 26-28 September, 2000, Awana Genting Highlands Golf and Country Resort, Pahang, Malaysia. Pp. 186-193.
19. **Latif, M. A.**, M. Y. Omar and S.G., Tan (2000). Determination of esterase activity levels of rice and weed associated field populations of *Nilaparvata lugens* (Homoptera: Delphacidae). Proc. of the 25th Annual Conference of the Malaysian Society for Biochemistry and Molecular Biology, 3rd October, 2000, Kuala Lumpur, P. 29.
20. **Latif, M. A.**, M. Y. Omar, S.G., Tan, S. S. Siraj and A. R. Ismail (1999). Inheritance of Random Amplified Polymorphic DNA (RAPD) molecular markers in brown planthopper, *Nilaparvata lugens*. Proc. of the 11th National Biotechnology Seminar, 22-24 November, 1999. Melaka, Malaysia. Pp. 330-334.
21. **Latif, M. A.**, M. Y. Omar, S.G., Tan, S. S. Siraj and A. R. Ismail (1999). Genetic status of rice and weed associated populations of brown planthopper, *Nilaparvata lugens*. Third National Seminar on Entomology, 6-7 March 1999, Kangar Perlis, Pp. 73-76.
22. **Latif, M. A.**, M. Y. Omar, S.G., Tan, S. S. Siraj and A. R. Ismail (1999). Inheritance and association of malathion resistance in brown planthopper, *Nilaparvata lugens*. Fifth International Conference on Plant Protection in the tropics, 15-18 March 1999, Kuala Lumpur, Malaysia, Pp. 538-541.

23. **Latif, M. A.,** M.Y. Omar, S. G. Tan, S.S. Siraj and A. R. Ismail. (1998). Inheritance study of glucose phosphste isomerase (GPI), malate dehydrogenase (MDH) and Isocitrate dehydrogenase (IDH) isozymes in brown planthopper, *Nilaparvata lugens*. Proc. Of the third National Congress on Genetics, 18-19 November,1998, Pusat Kembangan, UKM, Bangi., Malaysia, Pp. 137-141.
24. **Latif, M.A.,** S. G. Tan, M.Y. Omar, S.S. Siraj and A. R. Ismail. (1998). Evidence of cryptic species complex in brown planthopper, *Nilaparvata lugens*. Proc. Of the Malaysian Science and Technology Congress, 7-9 November, 1998, Kuala Terengganu, Malaysia, Pp. 56-63.
25. **Latif, M. A.,** M. Y. Omar, S. G. Tan and S. S. Siraj (1998). Survival and ovipositional status of rice and weed associated populations of *Nilaparvata lugens*. Proceedings, Int. Sci. Conf, 7-9 May, 1998. UPM, Malaysia. P 9.
26. **Latif, M. A.,** M. Y. Omar, and S. G. Tan (1997). Biological and genetic status of *Nilaparvata lugens* on *Oryza* and *Leersia*. Abstracts of Research Seminar, 1997. FSAS, UPM, Malaysia, P. 41.

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1. Golestan Hashemi F.S., M.Y. Rafii, M.R. Ismail, T.M.M. Mahmud, H.A. Rahim, **M.A. Latif** and S. Ashkani. 2014. Detection of segregation distortion loci in a rice F2 population. UPM-Shizuoka university international colloquim. Building partnership towards excellence in Agri-bio research and development. Universiti Putra Malaysia, 3rd March, 2014. p40.
2. Hasan M.M., M.Y. Rafii, M.R. Ismail, M. Maziah, H.A. Rahim, M.A. Malek and **M. A. Latif**, 2014. Development of blast resistance rice variety through marker assisted backcrossing between MR263 and Pongsu Seribu 1. UPM-Shizuoka university international colloquim. Building partnership towards excellence in Agri-bio research and development. Universiti Putra Malaysia, 3rd March, 2014. p41.
3. Azizi P., M.Y. Rafii, S.N.A. Abdullah, M. Maziah, M.M. Hanafi, **M.A. Latif** and M. Sahebi. 2014. Genes expression patterns analysis of Malaysian rice (*oryza sativa* l.) varieties against blast disease using real-time PCR. UPM-Shizuoka university international colloquim. Building partnership towards excellence in Agri-bio research and development. Universiti Putra Malaysia, 3rd March, 2014. p41.
4. Lau W.C.P., **M.A. Latif**, M.Y. Rafii, M.I. Razi, P. Adam. 2014. Marker assisted backcross breeding for improvement of fragrance characteristic and amylose content in local rice variety MR269. UPM-Shizuoka university international colloquim. Building partnership towards excellence in Agri-bio research and development. Universiti Putra Malaysia, 3rd March, 2014. p38
5. Ibrahim Wasiu Arolu, M.Y. Rafii, M. Shabanimofrad, M.M. Hanafi, T.M.M. Mahmud, **M.A. Latif** and S. Ashkani. 2014. Genetic characterization and Yield evaluation of Biodiesel feedstock (*Jatropha curcas*): Towards ensuring a sustainable bioenergy production. UPM-Shizuoka university international colloquim. Building

partnership towards excellence in Agri-bio research and development. Universiti Putra Malaysia, 3rd March, 2014. p26.

6. G. Miah, M.Y. Rafii, M.R. Ismail, A.B. Puteh, H.A. Rahim, S. Ashkani and **M.A. Latif**. 2014. Microsatellite marker linked to blast resistance gene pi-z in Pongsu Seribu 1 for using in marker assisted selection. UPM-Shizuoka university international colloquim. Building partnership towards excellence in Agri-bio research and development. Universiti Putra Malaysia, 3rd March, 2014. p26
7. Yusuff, O.A. M.Y. Rafii, N. Abdullah, M.A. Malek, H.A. Rahim, H. Gazali and **M.A. Latif**. 2014. Morphological and molecular evaluation of Malaysia MR219 rice variety and its M5 derived mutants for selection of yield and yield component traits. UPM-Shizuoka university international colloquim. Building partnership towards excellence in Agri-bio research and development. Universiti Putra Malaysia, 3rd March, 2014. p31.
8. Magaji Usman, M.Y. Rafii, M.R. Ismail, M.A. Malek and **M.A. Latif**, 2014. Differential expression against heat stress in Chilli pepper. UPM-Shizuoka university international colloquim. Building partnership towards excellence in Agri-bio research and development. Universiti Putra Malaysia, 3rd March, 2014. p19.
9. Fatah T., M. Y. Rafii, M. R. Ismail, H. A. Rahim, and **M.A. Latif**. 2013. QTL cloning linked with blast resistance in Malaysian rice variety Pongsu Seribu 2. International conference on crop improvement (ICCI), Issues and prospect for biotechnology intervention, Bangi, Malaysia, 25-26 November 2013. p36.
10. Shabanimofrad M., M.Y. Rafii, M.M. Hanafi, **M.A. Latif**, S. Ashkani and Parisa Azizi. 2013. Analysis of SSR markers segregation associated with resistance to rice brown planthopper. International conference on crop improvement (ICCI), Issues and prospect for biotechnology intervention, Bangi, Malaysia, 25-26 November 2013. p36.
11. Ibrahim Wasiu Arolu, M. Y. Rafii, M. M. Hanafi, T. M. M. Mahmud and **M.A. Latif**. 2013. Genetic divergence and evaluation of yield potential of 48 bio-diesel feed stocks (*Jatropha curcas*) collected from Peninsular Malaysia. International conference on crop improvement (ICCI), Issues and prospect for biotechnology intervention, Bangi, Malaysia, 25-26 November 2013. p35.
12. Ramli A., M. Y. Rafii, G. Saleh, A. Puteh, **M.A. Latif**, and O. Omar. 2013. Marker assisted selection for fragrance in the F2 population of selected rice population. International conference on crop improvement (ICCI), Issues and prospect for biotechnology intervention, Bangi, Malaysia, 25-26 November 2013. p34.
13. Miah G., M. Y. Rafii, M. R. Ismail, A. B. Puteh, H. A. Rahim and **M.A. Latif**. 2013. Detection of blast disease resistance using microsatellite markers and development of tolerant rice variety. International conference on crop improvement (ICCI), Issues and prospect for biotechnology intervention, Bangi, Malaysia, 25-26 November 2013. p39.

14. Ahmed F., M. Y. Rafii, M. R. Ismail, A. S. Juraimi, H. A. Rahim, and **M.A. Latif**. 2013. MARKER ASSISTED BACKCROSSING FOR DEVELOPING SUBMERGENCE TOLERANT RICE VARIETY. International conference on crop improvement (ICCI), Issues and prospect for biotechnology intervention, Bangi, Malaysia, 25-26 November 2013. p38.
15. Ashkani S., M. Y. Rafii, M. Shabanimofrad, and **M.A. Latif**. 2013. Multiplex per with fluorescent labelled microsatellite markers: a high-throughput method for genotyping in rice (*Oryza sativa* L.). International conference on crop improvement (ICCI), Issues and prospect for biotechnology intervention, Bangi, Malaysia, 25-26 November 2013. p33.
16. Azizi P., M.Y. Rafii, M. Maziah, S.N.A. Abdullah, M.M. Hanafi, **M.A. Latif**, and M. Sahebi. 2013. Molecular characterization of Malaysian rice (*oryza sativa* L.) varieties resistant to blast disease using real-time PCR. International conference on crop improvement (ICCI), Issues and prospect for biotechnology intervention, Bangi, Malaysia, 25-26 November 2013. p66.
17. Golestan-Hashemi F.S., Rafii M.Y., Ismail M.R., Mahmud T.M.M., Rahim H.A., **Latif M.A.** (2013). Molecular dissection and QTL mapping of aroma trait in fragrance rice using microsatellite markers. Abstracts of the First National Long-term Research Grant Scheme (LRGS) Food Security Rice Colloquium, 31 January 2013, UPM, Serdang, Selangor. p28.
18. Ahmed F. Rafii M.Y., Ismail M.R., Juraimi A.S., Rahim H.A., **Latif M.A.** (2013). Introgression of submergence tolerant gene in rice variety, MR219 through marker assisted backcross breeding. Abstracts of the First National Long-term Research Grant Scheme (LRGS) Food Security Rice Colloquium, 31 January 2013, UPM, Serdang, Selangor. p67.
19. Mazid M.S., Rafii M.Y., Ismail M.R., **Latif M.A.** (2013). Development of improved cooking quality rice (Basmati Type) through marker assisted backcross breeding in Malaysia. Abstracts of the First National Long-term Research Grant Scheme (LRGS) Food Security Rice Colloquium, 31 January 2013, UPM, Serdang, Selangor. p17.
20. Iffah Haifaa M.D., M.Y. Rafii, **M.A. Latif**, A. Nur Azura, M.S. Maisarah and R. Asfaliza. 2013. Identification of brown planthopper biotypes in peninsular Malaysia. International conference on crop improvement (ICCI), Issues and prospect for biotechnology intervention, Bangi, Malaysia, 25-26 November 2013. p66.
21. Mojulat W., M.Y. Rafii, M.R. Ismail, A.S. Juraimi, R. Asfalisa and **M.A. Latif**, 2013. Analysis of sub1 gene through marker assisted selection in progenies derived from Swarna sub-1 and MR263. Persidangan padi kebangsaan, Seberang Perai, Pulau Penang, 10-12 December, 2013. Pp471-472.
22. Mojulat W., Rafii M.Y., Ismail M.R., Juraimi A.S., **Latif M.A.** (2013). Analysis of simple sequence repeat markers linked with MR263 × submergence tolerant rice Swarna-sub1. Abstracts of the First National Long-term Research Grant Scheme

- (LRGS) Food Security Rice Colloquium, 31 January 2013, UPM, Serdang, Selangor. p68.
23. Rafii M.Y., Ahmed F., Mojulat W., **Latif M.A.** (2013). Development of submergence tolerant rice varieties through marker assisted selection. Abstracts of the First National Long-term Research Grant Scheme (LRGS) Food Security Rice Colloquium, 31 January 2013, UPM, Serdang, Selangor. p69.
  24. Miah G., Rafii M.Y., Ismail M.R., Puteh A.B., Rahim H.A., **Latif M.A.** (2013). Introgression of blast resistance in rice varieties, MR219 through marker assisted selection. Abstracts of the First National Long-term Research Grant Scheme (LRGS) Food Security Rice Colloquium, 31 January 2013, UPM, Serdang, Selangor. p70.
  25. Miah G., Rafii M.Y., Ismail M.R., Puteh A.B., Rahim H.A., **Latif M.A.** (2013). Development of blast resistance rice variety through marker assisted selection crossing MR219 and Pongsu Seribu 1. Abstracts of the First National Long-term Research Grant Scheme (LRGS) Food Security Rice Colloquium, 31 January 2013, UPM, Serdang, Selangor. p77.
  26. Hasan M.M., Rafii M.Y., Ismail M.R., Maziah M., Rahim H.A., **Latif M.A.** (2013). Development of blast resistance rice variety through marker assisted backcross breeding between MR263 and Pongsu Seribu 2. Abstracts of the First National Long-term Research Grant Scheme (LRGS) Food Security Rice Colloquium, 31 January 2013, UPM, Serdang, Selangor. p78.
  27. Ashkani S., Rafii M.Y., Rahim H.A., **M.A.Latif** (2012). Mapping of rice blast resistance loci (QTLs) using SSR markkners. The 12th SABRAO Congress Plant Breeding towards 2025. Chiang Mai. 13-16 January 2012. Pp.61-62.
  28. Rafii M.Y., Ashkani S., Rusli I., Sariah M., Siti Nor Akmar A., **Latif M.A.**, Rahim H.A. (2012). SSR markers linked to rice blast resistance genes for use in marker assisted selection. The 12th SABRAO Congress Plant Breeding towards 2025. Chiang Mai. 13-16 January 2012. p144
  29. M. S. Kabir, S. Akter, P. S. Biswas, **M. A. Latif** and M. A. Hossain. 2007. Screening, phenotypic and physiological structures of *Xanthomonas oryzae* pv. *oryzae* and its races in Bangladesh. In proceedings “2nd International Conference on Bacterial Blight of Rice, held on 1 Oct.- 03 Oct. 2007 in Nanjing, China. Pp. 40-52.
  30. Iftekharuddaula KM, Biswas PS, Rahman MA, Khatun M, Kader MA, Sarkar MRA,Ghosal S, **Latif MA**, Yasmeen RY, Aditya TL and Kabir MS, 2019, Molecular Rice Breeding at BRRI: Progress and Way Forward. In proceedings “4th IPFS-ICBHA 2019, held on 11 Nov.- 13 Nov. 2019 in Dhaka, Bangladesh.
  31. Kader, Md & Biswas, Partha & Ahmed, Helal & Hossain, Md & Islam, Md. Rafiqul & Bari, Md & Siddiquee, Muhammad & Hore, Tapas & Haque, Md. Maksudul & Amin, Al & Khairul, Md & Bhuiyan, Alam & Ali, Panna & Monsor, Md & Iqbal, Mosud & Shozib, Habibul & Ferdous, Nilufa & Hossain, **Mohammad** & Islam, Aminul & MacKenzie, Donald. (2018). Updates of Golden Rice Research in Bangladesh.

32. Khan, Mohammad & A., Latif & Bhuiyan, Md. Rejwan & Rashid, Md & Monsur, Mohammad & Ali, Md. (2020). Conference paper Blast JIRCAS-FFTC 18.9.2020.

#### XIV. 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

#### XV. 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 personalls (*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**

<b>Post/Services</b>	<b>Areas/Committee</b>	<b>Status</b>	<b>Year</b>
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 BRRRI Rice Doctor (Website and Apps)	National	2015-2019

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