

Personal Resume

1. **Name:** **Dr. Mihir Lal Saha**
2. **Father's Name:** Prafulla Kumar Saha
3. **Mother's Name:** Anjali Rani Saha
4. **Date and Place of Birth:** 05-12-1960, Magura, **Bangladesh**
5. **Nationality:** **Bangladeshi**
6. **Present Position:**
Professor
Department of Botany, **University of Dhaka**
(From 01 December 2004 to date)
Chairman
(From 27 August 2022 to date)
Provost
Jagannath Hall, University of Dhaka
(From 08 May 2019 to date)
Director
Arboriculture Centre, University of Dhaka
(From February 2012 to date)
Former Acting Dean
Faculty of Biological Sciences
University of Dhaka
(From 02 June 2021 to 15 January 2022)
7. **Mailing/Office Address:**
Department of Botany
University of Dhaka
Curzon Hall
Dhaka-1000, Bangladesh
8. **Home Address:**
Bungalow No.: 8, Jagannath Hall
University of Dhaka,
Dhaka-1000, Bangladesh
9. **Permanent Address:**
Village & PO: Jagla
Upa-zilla & District: Magura
Post Code : 7600, Bangladesh
10. **Telephone:**
88-02-9661900 Extn.: 7550 (Office)
88-02-44865010 (Residence)
88-01-711-667104 (Cell)
11. **Fax:** 88-02-9667222
12. **Senate Member:**
University of Dhaka
(From May 25, 2022 to date and
From 2009 to 2013)
13. **Mail and Web Address:** sahaml@yahoo.com/sahaml@du.ac.bd/sahaml.du@gmail.com
<http://www.du.ac.bd/departments/commonfacultydetail>.

14. **Subject of Specialization:** Microbiology and Microbial Biotechnology

15. **Educational Qualifications:**

Degree	University/ Board	Class/Division	Position	Year
Ph. D. (Fermentation Microbiology)	Utsunomiya University (Japan)	Awarded	-	1998
M. Sc. (Botany) (Thesis in Microbiology)	Dhaka University (Bangladesh)	First Class	First	1982 (held in 1987)
B. Sc. (Hons.) in Botany	Dhaka University (Bangladesh)	First Class	First	1981 (held in 1984)
H. S. C. (Science)	Jessore Board (Bangladesh)	2nd Division		1978
S. S. C. (Agriculture Science)	Jessore Board (Bangladesh)	Ist Division		1976

16. **Dissertation:**

- (i) **Ph. D.** 1998. Application of magneto-biotechnological technique on citric acid fermentation using *Aspergillus niger*. **Dissertation.** Graduate School of Engineering, Utsunomiya University. (Japan).
- (ii) **M. Sc.** 1987. A microbiological study of dry silver pomfrets. **Dissertation.** Laboratory of Microbiology, Department of Botany, University of Dhaka. (Bangladesh).

17. **Professional Experience:**

- (i) Associate Professor: Department of Botany, University of Dhaka
(From 20 November 1999 to November 30 2004)
- (ii) Assistant Professor: Department of Botany, University of Dhaka
(16 January 1994 to 19 November 1999)
- (iii) Lecturer: Department of Botany, University of Dhaka
(From 04 October 1988 to 15 January 1994)
- (iv) Research Fellow: Biotechnology Research Centre, University of Dhaka
(From October 1987 to September 1988)
- (v) Ex-House Tutor: Jagannath Hall, University of Dhaka (Altogether 10 years)

18. **Academic Award:**

- | | Awarding Authority | Period |
|---|---|------------------------|
| (i) Talent pool Scholarship | : University of Dhaka | 1984 (Session 1978-79) |
| (ii) Chancellor (President) Award | : Government of Bangladesh | 1984 (Session 1978-79) |
| (iii) Monbusho Scholarship | : Government of Japan | Oct 1994-Mar 1998 |
| (iv) Post Doctoral Fellowship | : Grant-in-Aid for Scientific Research (B) JSPS, Japan
(December 15, 2004-December 29, 2005, One Year) | |
| (v) Best Poster Award | : Magnetic Separation Conference, Utsunomiya, Japan | |
| (vi) JSPS Invitation Fellowship
(Short-Term FY 2016) | : Government of Japan | Jan 20-March 20, 2017 |

19. **Language Course Attended:**

- (i) English as Special Purpose : Four months
Institute of Modern Language,
University of Dhaka, Bangladesh.
- (ii) Japanese Language : One year, Introductory Course,
Utsunomiya University, Japan.

20. Post Doctoral Visit: Visited Japan seven times to the Department of Applied Chemistry, Faculty of Graduate School of Engineering, Utsunomiya University, Japan as Post Doctoral Fellow and JSPS invitation fellowship to carry out biological wastewater treatment by Magnetic Activated Sludge (MAS) process, a new technology in the wastewater treatment arena.

Laboratory	Faculty	University	Country	Period
Wastewater Treatment Laboratory	Graduate School of Engineering	Utsunomiya University	Japan	December 15, 2004 - December 29, 2005
Wastewater Treatment Laboratory	Graduate School of Engineering	Utsunomiya University	Japan	October 10, 2007- December 10, 2007
Wastewater Treatment Laboratory	Graduate School of Engineering	Utsunomiya University	Japan	October 26, 2009 - December 25, 2009
Wastewater Treatment Laboratory	Graduate School of Engineering	Utsunomiya University	Japan	April 21, 2011 - June 20, 2011
Wastewater Treatment Laboratory	Graduate School of Engineering	Utsunomiya University	Japan	October 17, 2012 - December 16, 2012
Wastewater Treatment Laboratory	Graduate School of Engineering	Utsunomiya University	Japan	October 17, 2013 - December 16, 2013
Wastewater Treatment Laboratory	Graduate School of Engineering	Utsunomiya University	Japan	June 02, 2014 - August 01, 2014
Wastewater Treatment Laboratory	Graduate School of Engineering	Utsunomiya University	Japan	January 20, 2017 - March 20, 2018

21. Training Received:

- (i) Two Weeks Training on "Plasmid Biology" in the Department of Botany, University of Dhaka. (Bangladesh).
- (ii) Two Weeks International Training Course/Workshop on Biotechnology in the Department of Biochemistry, University of Dhaka. (Bangladesh).

22. Country Visited: India, Japan, Nepal, U. S. A., Thailand

23. Ph. D. Examiner: (i) Annamalai University, Annamalainagar, Tamilnadu, India.
(ii) Vinayaka Missions University, Salem, Tamilnadu, India
(iii) Calcutta University, Kolkata, India.

24. Research and Development: Citric Acid Fermentation, Environmental Microbiology, Wastewater Treatment, Magnetic Activated Sludge (MAS) process for wastewater management, Biological dye decolourization, Coliform bacteria associated with food and water, screening of indigenous protease, amylase and producing bacteria, Exopolysaccharide (EPS) & Pigment producing bacteria, Multidrug resistance bacteria, bacteria for lipase production and its biotechnological application, bacteria associated with domestic and industrial waste materials and their biopolymer production.

25. Foreign Research Partner: Dr. Yasuzo Sakai, Department of Applied Chemistry, Graduate School of Engineering, Utsunomiya University, **Japan**

26. Conference/Workshop Attended: 42 (Forty Two)

Conference/Workshop	Nature	Venue	Year
(i) Annual Meeting of the Society for Fermentation and Bioengineering	Oral Presentation	Nagoya University Japan	September 1996
(ii) Japan Society on Water and Environment Conference	Participation	Chiba University Japan	March 17-19 2005
(iii) Conference on Cryogenic and Superconductivity Society of Japan	Oral Presentation	Tokyo University Japan	May 31- June 02 2005
(iv) Magnetic Separation Conference	Poster Presentation	Utsunomiya University, Japan	September 01-02 2005
(v) Conference on Japan Society of Chemical Engineer	Oral Presentation	Okayama University, Japan	September 15-17 2005
(vi) Workshop on magnetic separation and analysis organized by The Magentio-Society of Magneto-Science	Oral Presentation	Hiroshima Japan	November 11 2007
(vii) Pacificchem Congress	Poster Presentation	Honolulu, Hawaii U.S.A.	December 15-20 2005
(viii) SAARC Seminar	Participation	Dhaka Bangladesh	June 14-15 2009
(ix) 4th International Workshop on Material Analysis and Processing in Magnetic Fields (MAP4)	Oral Presentation	Atlanta, Georgia U.S.A.	May 10-12 2010
(x) International Conference on Tissue Culture & Biotechnology	Oral Presentation	Dhaka University Bangladesh	December 03-05 2010
(xi) International Conference on Biodiversity, Livelihood and Climate Change in the Himalayas	Oral Presentation	Kathmandu Nepal	December 12-14 2010
(xii) Conference on Cryogenic Society of Japan	Oral Presentation	Tsukuba Japan	May 18-20 2011
(xiii) Global Biosafety Management Program	Participation	Jaipur India	October 03-05 2011
(xiv) Fifth International Botanical Conference	Oral Presentation	Dhaka Bangladesh	December 09-11 2011
(xv) International Conference on Environmental Risk Assessment of Genetically Engineered Plants	Participation	Dhaka Bangladesh	April 15-17 2012
(xvi) Workshop on Genomics and Proteomics	Participation	Dhaka University Bangladesh	July 16-24 2012
(xvii) Workshop on Plant Genetic Transformation, in situ Hybridization and Bioinformatics	Participation	Dhaka University Bangladesh	October 06-14 2012
(xviii) Annual Conference of Magneto-Science Society of Japan	Poster Presentation	Kyoto University Japan	November 20-22 2012
(xix) International Seminar on Nuclear Power: A Chance of Successful Economic and Socio-Political Development	Participation	Dhaka Bangladesh	May 29-30 2013
(xx) Annual meeting of livestock management	Participation	Tsukuba Japan	November 07-08 2013
(xxi) The 4 th International Forum on Magnetic Force Control	Oral Presentation	Osaka Japan	November 21-22 2013
(xxii) Conference on Cryogenic and Superconductivity Society of Japan	Participation	Nagoya Japan	December 04-06 2013
(xxiii) 6th International Workshop on Material Analysis and Processing in Magnetic Fields (MAP6)	Oral Presentation	Okinawa (Japan)	July 08-11 2014
(xxiv) National Conference on Biotechnology	Oral	Kathmandu	November 22-23

	Presentation	Nepal	2014
(xxv) Sixth International Botanical Conference	Participation	Dhaka Bangladesh	December 06-07 2014
(xxvi) 3 rd South Asia Biosafety Conference	Organizer	Dhaka Bangladesh	September 19-20 2015
(xxvii) 4 th Annual South Asia Biosafety Conference	Participation	Hyderabad India	September 19-21 2016
(xxviii) 8 th International Plant Tissue Culture and Biotechnology Conference	Organizer	Dhaka Bangladesh	December 03-05 2016
(xxix) International Conference on The Green Planet: Past, Present and Future	Invited Speaker	Kolkata India	December 21-23 2016
(xxx) 51 st Annual Conference of Japan Society on Water Environment	Oral Presentation	Kumamoto Univ. Japan	March 15-17 2017
(xxxi) Seventh International Botanical Conference	Co-Chair	Dhaka University Bangladesh	February 03-04 2018
(xxxii) 9 th International Plant Tissue Culture and Biotechnology Conference	Organizing Secretary	Dhaka Bangladesh	February 08-10 2020
(xxxiii) The 11 th International Forum on Magnetic Force Control	Oral Presentation	Online Conference Japan	October 23-24 2020
(xxiv) Annual Plant Tissue Culture and Biotechnology Conference	Organizer	Online Conference Dhaka Bangladesh	March 06 2021
(xxxv) International Conference on Science and Technology for Celebrating the Birth Centenary of Bangabandhu (ICSTB-2021)	Chairman (TS Biodiversity-2) 13 March	BCSIR, Dhaka Bangladesh	March 11-13 2021
(xxxvi) The 12th International Forum on Magnetic Force Control	Chairman of Oral Session II	Online Conference China	October 29-30 2021
(xxxvii) Bridging Gaps between Food Safety Research	Oral Presentation	2nd BAFP Webinar, USA	May 14 2022
(xxxviii) Annual Plant Tissue Culture and Biotechnology Conference	Organizer	Dhaka Bangladesh	May 28 2022
(xxxix) Emerging and Re-emerging Viral Infectious Diseases: Preparation and Awareness organized by International Society of Bangladeshi Microbiologists (ISBM)	Participation	International Webinar	August 13 2022
(xxxx) Felicitation Ceremony Honorary Fellows-2022 organized by Society for Plant Research	Participation	International Webinar	August 25 2022
(xxxxi) International Conference on Environmental Protection for Sustainable Development (ICEPSD)- 2022	Keynote Speaker and Session Chair	Dhaka Bangladesh	September 02-04 2022
(xxxxii) The 13th International Forum on Magnetic Force Control	Oral Presentation	Online Conference Korea	November 04-05 2022

27. Major conference presentation and abstract title:

1. *OP* ○ **Mihir Lal Saha**, Yasuzo Sakai and Masato Oda. Dye decolorization and removal of organic compounds removal of synthetic textile effluent by anaerobic aerobic magnetic activated sludge (A2-MAS) reactor. The 4th International Workshop on Materials Analysis and Processing in Magnetic Fields (MAP4), Atlanta, USA, (2010).
2. *OP* ○ **Mihir Lal Saha** M. R. Khan, R.H. Sarker, M. I. Hoque, Sk Shamimul Alam, Lovely Akter. Bacteria associated with the die-back disease of Sissoo trees (*Dalbergia sissoo* Roxb.)

- in Bangladesh. International Conference on Biodiversity, Livelihood and Climate Change in the Himalayas. Kathmandu, Nepal, December 12-14, 2010.
3. *IS* ○Yasuzo Sakai, Shogo Kajii, Fumiko Kawakami, **Mihir Lal Saha**, Kazunori Iwabuchi and Masaru Kashiwazaki. Merits of magnetic activated sludge process and the application to advanced purification of dairy wastewater. 5th International Botanical Conference 2011, Dhaka, Bangladesh (2011).
 4. *OP* ○**Mihir Lal Saha**, Masato Oda and Yasuzo Sakai. Dye decolorization and COD removal of synthetic textile effluent by anaerobic-aerobic magnetic activated sludge (A2-MAS). 5th International Botanical Conference 2011, Dhaka, Bangladesh (2011).
 5. *IS* ○Yasuzo Sakai, Shogo Kajii, Tomohito Onodera, Fumika Kawakami, Ikko Ihara, **Mihir Lal Saha**. High rate purification of dairy wastewater by multistage treatment with magnetic activated sludge process, coagulation and contactoxidation process. The 3rd International Forum on Magnetic Force Control in Busan. Busan, Korea. (2012).
 6. *IS* ○Yasuzo Sakai, Yanzi Chen, Kohei Sakai, Yuki Inokura, Toshihito Onodera, Seiji Ochiai and **Mihir Lal Saha**. Resaerch frontier of magnetic activated sludge process using microbe flocs adsorbing magnetic particles. The International Conference on Ferite, Okinawa, Japan, (2013/04/15-19).
 7. *OP* ○Seiji Occhiai, Yasuzo Sakai, Koji Hiroshima and **Mihir Lal Saha**. Application of magnetic separation for decontamination of radioactive contaminated sludge using magnetic seeding. The International Conference on Ferite, Okinawa, Japan, (2013/04/15-19).
 8. *OP* ○**Mihir Lal Saha**, Yasuzo Sakai, Sadayuki Sasaki, Tetsuya Sasaki, Masato Oda, Mina Shohoji. Application of magnetic separation technique in various biological processes. The 4th International Forum on Magnetic Force Control in Osaka. Osaka, Japan. (2013/11/21-22)
 9. *PP* ○Toshihito Onodera, Yasuzo Sakai, Masaru Kashiwazaki, Ikko Ihara and **Mihir Lal Saha**. Proposal of a dairy wastewater treatment at pilot scale utilizing the magnetic activated sludge method. The 4th International Forum on Magnetic Force Control in Osaka. Osaka, Japan. (2013/11/21-22)
 10. *PP* ○Gaowa, Yasuzo Sakai, **Mihir Lal Saha**, The treatment of waste milk containing tetracycline by magnetic activated sludge process and contact oxidation process : A basic study. The 4th International Forum on Magnetic Force Control in Osaka. Osaka, Japan. (2013/11/21-22).
 11. *PP* ○Kohei Sakai, Yasuzo Sakai, Junichi Nakato and **Mihir lal Saha**. Evaluation and separation performance of commercially magnetic drum separator including neodymium magnet for magnetic activatec sludge. The 4th International Forum on Magnetic Force Control in Osaka. Osaka, Japan. (2013/11/21-22).
 12. *PL* ○Yasuzo Sakai, Gaowa, Toshihito Onodera, Kohei Sakai and **Mihir Lal Saha**. Application of magnetic activated sludge process for dairy wastewater treatment. 7th International Plant Tissue Culture & Biotechnology Conference, 2103. Dhaka, Bangladesh (2014).
 13. *OP* ○**Mihir Lal Saha**, Yasuzo Sakai, Masato Oda, Mina Sohoji. Application of magnetic activated sludge (MAS) in various wastewater treatment processes. 7th International Plant Tissue Culture & Biotechnology Conference, 2103. Dhaka, Bangladesh (2014).
 14. *PP* Gaowa, Yasuzo Sakai and **Mihir Lal Saha**, Treatment of waste milk containing tetracycline by magnetic activated sludge process and contact oxidation process. 7th International Plant Tissue Culture & Biotechnology Conference, 2103. Dhaka, Bangladesh (2014).
 15. *OP* ○**Mihir Lal Saha** , Y. Sakai , S. Sasaki , T. Sasaki , M. Oda , M. Shohoji , Application of Magnetic Separation Technique in Various Biological Processes, 6th International Workshop on Materials Analysis and Processing in Magnetic Fields (MAP6), (Okinawa), (2014/7/8)

16. *PP* ○Gaowa, Y. Sakai, **Mihir Lal Saha**, Treatment of Waste-milk Containing Antibiotic by Magnetic Activated Sludge Process. 6th International Workshop on Materials Analysis and Processing in Magnetic Fields (MAP6), (Okinawa), (2014/7/8)
17. *PP* ○T. Onodera, Y. Sakai, I. Ihara, **Mihir Lal Saha**, K. Takada, M. Yunba, “Application of Magnetic Separation Process into Treatment of Various Dairy Wastewater Treatment”, 6th International Workshop on Materials Analysis and Processing in Magnetic Fields (MAP6), (Okinawa), (2014/7/8).
18. *OP* **Mihir Lal Saha**, Yasuzo Sakai, Sadayuki Sasaki, Tetsuya Sasaki, Masato Oda, Mina Shohoji. Application of magnetic activated sludge (MAS) in various wastewater treatment processes. NBA Conference on Plant Biotechnology, Nepal, November, 22-23, 2014.
19. *PL* ○Y. Sakai, **Mihir Lal Saha**, I. Ihara. Research and Development (R&D) of Magnetic Activated Sludge Process: Development of Standard Apparatus for Bench Scale Experiment. 6th Inter. Botanical Conf., Dhaka, Bangladesh (2014/12/6-7)
20. *PP* ○K. Sakai, Y. Sakai, **Mihir Lal Saha**, Development and Cost Effective Practical Devices of Magnetic Activated Sludge Process. 6th Inter. Botanical Conf., Dhaka, Bangladesh (2014/12/6-7)
21. *PP* ○T. Onodera, Y. Sakai, M. Kashiwazaki, I. Ihara, **Mihir Lal Saha**, K. Takada, M. Yunba, “Milking Parlor Wastewater Treatment by Coagulation and Magnetic Activated Sludge Process”, 6th Inter. Botanical Conf., Dhaka, Bangladesh (2014/12/6-7)
22. *IS* ○Yasuzo SAKAI, Toshiyuki Nikata, Miki Roppongi, Osuke Miura, **Mihir Lal Saha**, Estimation on Control of Greenhouse Gas Emission from Wastewater Treatment Plants by Magnetic Activated Sludge Process, 1st Asian International Cryogenic Materials and Cryogenics and Superconductivity Society of Japan 50th Anniversary Conference, Kanazawa, (2016)
23. *PP* ○Tsumugi Watanabe, Yasuzo Sakai, Makoto Yunba, Shoichi Nakap, **Mihir Lal Saha**, Multistage magnetic separation for the improvement of magnetic activated sludge process and study of energy-saving effect by waste sludge reduction, 7th International Forum of Magnetic Force Control , Kanazawa, (2016)
24. *IS* ○**Mihir Lal Saha**, Yasuzo Sakai, Masato Oda and Mina Shohoji. Textile wastewater management by Magnetic Activated Sludge Process. International Conference on: The Green Planet: Past, Present & Future. (December 21-23, 2016).
25. *OP* ○**Mihir Lal Saha**, Lovely Aktar, Tahmina Islam and Yasuzo Sakai. Isolation of Indigenous Lipase Producing Bacteria from Lipid Rich Environment for Wastewater Treatment. 51st Annual Conference of Japan Society on Water Environment, Kumamoto University, Japan. (March 15-17, 2017).
26. *OP* ○**Mihir Lal Saha**, Yasuzo Sakai, Sadayuki Sasaki, Tetsuya Sasaki, Masato Oda, Mina Shohoji. Application of magnetic separation technique in various biological processes. The 11th Online International Forum on Magnetic Force Control, Osaka University, Japan. (October 23-24, 2020).

28. Executive Position: 15 (Fifteen)

- (i) Secretary General, Bangladesh Botanical Society (2018-2020).
- (ii) Secretary, Bangladesh Association for Plant Tissue Culture & Biotechnology (2018-2023).
- (iii) Former Treasurer Bangladesh Society of Microbiologists
- (iv) Former Treasurer, Dhaka University Botany Alumni Association
- (v) Editor, Bangladesh Journal of Botany.
- (vi) Former Editor, Bangladesh Journal of Microbiology.
- (vii) Former Vice President, Dhaka University Club.
- (viii) Member, Governing Body, Community Medical College and Hospital, Mymensingh.
- (ix) Member, Lecturer and Assistant Professor Selection Committee, Dept. of Botany, DU.

- (x) Former Member, Governing Body, Delta Medical College and Hospital, Mirpur, Dhaka.
- (xi) Former Member, International Medical College and Hospital Gushulia, Gazipur, Bangladesh.
- (xii) Member, Professor Selection Comm., Microbiology Department, Chittagong University.
- (xiii) Former Member, Lecturer Selection Comm., Dept. of Botany, Barisal University.
- (xiv) Former Member, Professor Selection Committee, Microbiology Department, Jessore Science and Technology University, Jessore.
- (xv) Former Member, Lecturer and Assistant Professor Selection Committee, Botany Department, Jahangirnagar University.

29. Member of the Professional Bodies : 12 (Twelve)

- (i) Life Member, Japanese Universities Alumni Association in Bangladesh (JUAB).
- (ii) Life Member, Bangladesh Botanical Society.
- (iii) Life Member, Bangladesh Society for Microbiologists.
- (iv) Life Member, Bangladesh Phytopathological Society.
- (v) Life Member, Bangladesh Association for the Advancement of Science (BAAS)
- (vi) Life member, Jagannath Hall Alumni Association, University of Dhaka
- (vii) Member, Bangladesh Association for Plant Tissue Culture & Biotechnology
- (viii) Former Member, Cryogenics and Superconductivity Society of Japan.
- (ix) Former Member, Magneto-Science Society of Japan.
- (x) Former Member, The Society for Fermentation and Bioengineering, Japan.
- (xi) Former Member, Japan Society of Chemical Engineer.
- (xii) International Associate Member, Japan Society of Water and Environment, Japan

30. M. Sc./M. S. Supervision

Sl	Thesis Title	Student's Name and Department	Nature of Supervision	Session	Exam Year
01	Physico-chemical and bacteriological study of Pagla sewage treatment plant	M. Ashraful Alam Khan Department of Botany	Jointly with M. R. Khan	1996-97	2000
02	Microbiological study of some milk products with special reference to coliform bacteria	Bejon Kumar Bhowmik Department of Botany	Jointly with M. R. Khan	1996-97	2000
03	Waste polythene associated bacteria and biodegradation	Tabassum Mumtaz Department of Botany	Jointly with M. R. Khan	1997-98	2001
04	Microbiological and physico-chemical studies of the re-excavated Dhanmondi lake, Dhaka, Bangladesh	Roksana Rahman Department of Botany	Jointly with M. R. Khan	1997-98	2001
05	Gemstones associated microorganisms and their possible interactions	Hosna Afroza Department of Botany	Jointly with M. R. Khan	1997-98	2001
06	Screening of microorganisms from different soils with special reference to their proteolytic activity	Farjana Afrose Department of Botany	Jointly with M. R. Khan	1998-99	2002
07	Bacteria associated with textile dyeing effluent and their	Farida Islam Department of Botany	Jointly with M. R. Khan	1998-99	2002

	decolourization potentiality				
08	Bacteria associated with leather processing effluents and their proteolytic activities	Hasina Akter Department of Botany	Jointly With M. R. Khan	1998-99	2002
09	Microfloristic study of fruit juices collected from the local markets of Dhaka metropolitan city	Tania Sharmin Department of Botany	Jointly with M. R. Khan	2203-04	2008
10	Physico-chemical and bacteriological status regarding pollution of Gulshan Lake, Dhaka, Bangladesh	Tahmina Bari Department of Botany	Jointly with M. R. Khan	2003-04	2008
11	Bacteria associated with industrial effluents of three dyeing industries and their decolourization potentiality on four dye compound	Uma Margaret Costa Department of Botany	Jointly with M. R. Khan	2003-04	2008
12	Bacterial flora and pollution level of the river Buriganga, Dhaka, Bangladesh	Mohammad Ali Department of Botany	Jointly with M. R. Khan	2004-05	2008
13	Bacteria associated with the die-back disease of sissoo trees (<i>Dalbergiasissoo</i> Roxb.) in Bangladesh	Lovely Aktar Department of Botany	Jointly with M. R. Khan	2004-05	2008
14	Isolation and characterization of iron related bacteria and their possible application in biohydrometallurgy	Nahmine Begum Department of Botany	Jointly with M. R. Khan	2004-05	2008
15	Allelopathic effects on growth, germination and development of plants induced by microorganisms induced by microorganisms	Shammi Akter Mili Department of Botany	Jointly with M. R. Khan	2005-06	2009
16	Bacteriological study of the soil of Madhupursal and Sundarban Mangrove Forest	Chaman Binte Aziz Department of Botany	Jointly with M. R. Khan	2006-07	2010
17	Isolation and screening of bacterial strains for their antifungal potentiality	Saima Khan Department of Botany	Jointly with M. R. Khan	2006-07	2010
18	Bacteriological profile & pollution level of four ponds and biotechnological applications of isolated bacteria	Meherun Nessa Department of Botany	Jointly with M. R. Khan	2007-08	2010
19	Isolation and characterization of microorganisms associated with common spices and their possible implications	Farhana Islam Khan Department of Botany	Jointly with M. R. Khan	2007-08	2010
20	Biotechnological exploitation of bacteria with special reference to pigment isolated from Sundarban Mangrove Forest soil	Sadia Afrin Department of Botany	Single	2008-09	2011

21	Biotechnological exploitation of bacteria with special reference to exopolysaccharide (EPS) isolated from Sundarban Mangrove Forest soil	Zennathara Department of Botany	Single	2008-09	2011
22	Isolation of aquatic bacteria and their biotechnological exploitation with special reference to dye decolourization	Suvra Das Department of Botany	Single	2009-10	2012
23	Isolation and characterization of bacteria from soil of seven angiosperms with special reference to EPS production	Most. Arifa Sultana Department of Botany	Single	2010-11	2012
24	Isolation and characterization of pigment producing bacteria from air and phyllosphere and their possible biotechnological approaches	Farjana Ahmed Department of Botany	Single	2010-11	2012
25	Evaluation of propagation techniques, antibacterial properties and phytochemistry of <i>Listiaglutinosa</i> (Lour.) C.B. Robinson.	Tahmina Begum Department of Botany	Jointly with Md. Abul Hassan and Md. Zashim Uddin	2010-11	2012
26	Enumeration and identification of bacteria associated with light snacks and water and their multidrug resistance pattern	Anika Tabassum Department of Botany	Single	2011-12	2013
27	Enumeration and isolation of bacteria associated with food and water in different restaurant of Mirpur area and their multidrug resistance pattern	Nasrin Akter Department of Botany	Single	2012-13	2014
28	Alkaline protease producing bacteria isolated from leather processing industries and their potential biotechnological use	Tahsin Khan Department of Botany	Single	2012-13	2014
29	Bacterial community and pollution level of river Turag, Gazipur, Bangladesh	Md. Atiq Mahbub Department of Botany	Single	2013-14	2015
30	Bacteriological analysis of dome ready to eat foods & water and their multidrug resistance pattern	Dilara Akter Department of Botany	Single	2013-14	2015
31	Bacteria associated with the midgut of <i>Oxya chinensis</i> (Thunberg 1815) (Orthoptera: Aeriidae)	Md. Ahsan Habib Department of Zoology	Jointly with Murshida Begum (Zoology)	2012-13	2014
32	Efficacy of <i>Bacillus thuringiensis</i> var. <i>israelensis</i> against the larvae of <i>Aedes aegypti</i> (Linn. 1762) Diptera:	Department of Zoology	Jointly with Murshida Begum (Zoology)	2013-14	2015

	Culicidae)				
33	Bacterial flora in Stinging Catfish, Panna Croaker, Chinese Pomfret and Olive Barb	Anjuman Ara Akhtar Department of Fisheries	Jointly with Mahmud Hassan and Shankar C. Mandal (Fisheries)	2010-11	2012
34	Microbial and nutritional quality changes of GolshaTengra (<i>Mystus bleekeri</i>) during low cost preservation with indigenous materials	Aiesha Ayub Department of Fisheries	Jointly with Md. Golam Mustafa (Fisheries)	2011-12	2013
35	Isolation and identification of heteromorphic and enteric bacteria from fresh and salted Hilsha (<i>Tenualosailisha</i>)	Tahara Rohomania Department of Fisheries	Jointly with Mohammad Shamsur Rahman and Anwar Hossain (Fisheries)	2012-13	2014
36	Identification and antibiotic susceptibility of Aeromonas hydrophila isolated from fresh water fishes	Halima Sarder Department of Fisheries	Jointly with Mohammad Shamsur Rahman (Fisheries)	2013-14	2015
37	Comparison of Multiple Antibiotic Resistance Profiles Between <i>Vibrio cholerae</i> 'O1 and O139' and 'non-O1 and non-O139' and Analysis of Their Resistance Mechanism	Nasima Akhter Department of Botany	Jointly with Md. Mahbubur Rahman (iccdr,b)	2014-15	2016
38	Bacteria associated with soil and garbage waste of Dhaka Metropolitan city and their biotechnological application in reference to amylase production	Nowrosh Islam Department of Botany	Single	2014-15	2016
39	Isolation and screening of potential indigenous amylolytic soil bacteria and their optimization of amylase production	Khondokar Nowshin Islam Department of Botany	Single	2015-16	2017
40	Isolation and screening of biotechnologically potential indigenous soil bacteria with special reference to various enzymes	Taslina Akter Department of Botany	Single	2015-16	2017
41	Identification and characterization of causative agent of Early Mortality Syndrome (EMS) in cultured shrimp	Md. Mostavi Enan Eshik Department of Fisheries	Jointly with Mohammad Shamsur Rahman (Fisheries)	2015-16	2016
42	Isolation of biotechnologically important enzyme producing indigenous bacteria from fruit and vegetable wastes from different local markets of Dhaka city	Probir Kumar Sharma Department of Botany	Single	2016-17	2018

43	Isolation of exopolysaccharide (EPS) producing bacteria from Ratargul Swamp Forest soil	Upama Dev Department of Botany	Single	2016-17	2018
44	Nutritional and microbial quality assessment of Striped catfish, <i>Pangasianodon hypophthalmus</i> (Sauvage, 1878) cultured in Bangladesh	Mst. Aziza Begum Dept. of Fisheries	Jointly with Mohammad Shamsur Rahman (Fisheries)	2016-17	2018
44	Isolation of pigment producing bacteria from Ratargul Swamp Forest soil	Nafisa Anzum Department of Botany	Single	2017-18	2019
45	Isolation of plant growth promoting hormone and enzyme producing bacteria from rhizospheric soil	Rahana Yasmin	Single	2018-19	2022
46	Leafy salad materials and their antibiogram	Swagata Sen	Single	2018-19	2022
47	Antagonistic activity of soil bacteria against antibiotic resistant Gram-negative bacteria	Ha Meem	Jointly with Dr. Nazrul Islam and Dr. Sadia Afrin, BCSIR	2019-20	2022
48	Isolation and Characterization of pigment producing bacteria from soil sample and determining its biotechnological impacts	Farhana Urmi	Jointly with Dr. Nazrul Islam and Dr. Sadia Afrin, BCSIR	2019-20	2022
49	Screening and Molecular Characterization of Antibiotic Resistant Coliform Bacteria from Surface Water of Dhaka City	Lipa Mondol	Jointly with Dr. Tania Hossain CARS, DU	2020-21	2022
50	Molecular characterization of biodegradable polymer producing bacteria isolated from organic wastes	Dipa Rani Roy	Jointly with Dr. Tania Hossain CARS, DU	2020-21	2022

31. M. Phil. Supervision

Sl. No.	Thesis Title	Name of Student	Nature of Supervision	Status	Award Year
01	Microbial Decolourization of Textile Dye Compounds	Julia Yesmin Department of Botany	Jointly with M. R. Khan	Completed	2010

32. Ph. D. Supervision

Sl. No.	Thesis Title	Name of Student	Nature of Supervision	Status	Award Year
01	Induction of L forms in selected microbial cultures and to study their potentiality for application in biotechnology	Tania Hossain Department of Botany	Jointly with M. R. Khan	Completed	2014
02	Isolation and characterization of	Lovely Aktar	Single	Awarded	2019

	bacteria for lipase production and its biotechnological application				
03	Informant consensus factor and antibacterial activity of ethnomedicinal plants used by the people of Brahmanbaria, Bangladesh	Tahmina Haque Ph. D. Fellow	Jointly with Md. Abul Hassan and Md. Zashim Uddin)	Awarded	2020
04	Isolation and characterization of bacteria from domestic and industrial waste materials for biopolymer production	Farhana Islam Khan	Single	Awarded	2020

Research Publications: 87 (Eighty Seven)

2023

1. Rahana Yesmin and **Mihir Lal Saha**. 2022. Isolation of biotechnologically important enzyme producing Rhizobacteria from seasonal flower beds. Dhaka Univ. J. Biol. Sci. **32(1)**: 65-71, 2023 (January). DOI: <https://doi.org/10.3329/dujbs.v32i1.64191>

2022

2. Tahmina Haque, Mohammad Zashim Uddin, Md. Abul Hassan and **Mihir Lal Saha**. 2022. Antibacterial properties of major ethnomedicinal plants used by the local people of Brahmanbaria, Bangladesh. Bangladesh J. Bot. **51(4)**: 779-786, 2022 (December). DOI: <https://doi.org/10.3329/bjb.v51i4.63497>
3. **Mihir Lal Saha**, Masato Oda and Yasuzo Sakai. 2022. Dye decolorization and organic compounds removal of synthetic textile effluent (STE) by anaerobic-aerobic magnetic activated sludge (A₂-MAS) reactor. Plant Tissue Cult. & Biotech. **32(2)**: 115-125, 2022 (December). DOI: <https://doi.org/10.3329/ptcb.v32i2.63546>
4. Zennathara, Sadia Afrin, Mohammad Ali, Mohammad Nurul Islam and **Mihir Lal Saha**. Exopolysaccharide (EPS) Producing Bacteria of Sundarbans Mangrove Forest Soil. Plant Tissue Cult. & Biotech. 2022. **32(2)**: 145-156, 2022 (December). DOI: <https://doi.org/10.3329/ptcb.v32i2.63549>
5. Swagata Sen and **Mihir Lal Saha**. 2022. Bacteria associated with the leafy salad vegetables of old Dhaka city and their multiple antibiotic resistance (MAR) index. Dhaka Univ. J. Biol. Sci. **31(2)**: 361-369, 2022 (July). DOI: <https://doi.org/10.3329/dujbs.v31i2.60893>
6. Rahana Yesmin and **Mihir Lal Saha**. 2022. Characterization of plant growth promoting rhizobacteria from seasonal flower beds. Dhaka Univ. J. Biol. Sci. **31(2)**: 321-328, 2022 (July). DOI: <https://doi.org/10.3329/dujbs.v31i2.60890>
7. Yasuzo Sakai, Satoshi Ueno, Zai Heng Zhang, Norihiro Kato, Toshiyuki Nikata, **Mihir Lal Saha** and Fujio Takahashi. 2022. Development of Single AI-MAS Process for Continuous Removal of Phosphorus, Nitrogen and Organic Compounds from Wastewater. Plant Tissue Cult. & Biotech. **32(1)**: 21-29, 2022 (June). <https://doi.org/10.3329/ptcb.v32i1.60469>
8. Probir Kumar Sharma, Zakya Sultana Jui, Tahsin Khan, Tahmina Islam and **Mihir Lal Saha**. 2022. Biotechnologically Important Enzyme Producing Indigenous Bacteria Isolated from Fruit and Vegetable Wastes Samples Collected from different Local Markets. Plant Tissue Cult. & Biotech. **32(1)**: 31-41, 2022 (June). <https://doi.org/10.3329/ptcb.v32i1.60470>
9. Nafisa Anzum, Farhana Islam Khan, Mohammad Zabed Hossain, Mohammad Nurul Islam and **Mihir Lal Saha**. 2022. Isolation and characterization of pigment producing bacteria from Ratargul Swamp Forest soil. Dhaka Univ. J. Biol. Sci. **31(1)**: 1-8, 2022 (January). DOI: <https://doi.org/10.3329/dujbs.v31i1.57911>

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10. Lovely Aktar, Mohammad Moniruzzaman, Yasuzo Sakai and **Mihir Lal Saha**. 2021. Indigenous lipase producing bacteria for lipid-rich wastewater treatment. Plant Tissue Cult. & Biotech. **31(2)**: 135-142, 2021 (December). <https://doi.org/10.3329/ptcb.v31i2.57341>
11. Onodera T, Sakai Y, Kashiwazakia M, Ihara I and **Mihir Lal Saha** 2021. Application of magnetic activated sludge process for a milking parlor wastewater treatment with nitrogen and phosphorus recovery. Progress in Superconductivity and Cryogenics. **3(3)**: 20-25. <https://doi.org/10.9714/psac.2021.23.3.020>
12. Gaowa, Yasuzo Sakai, Xiaonan Xie, **Mihir Lal Saha**, and Ikko Ihara. 2021. Treatment of milking parlor wastewater containing tetracycline by magnetic activated sludge and contact oxidation process. Progress in Superconductivity and Cryogenics. **23 (3)**: 32-36. <https://doi.org/10.9714/psac.2021.23.3.032>

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14. **Mihir Lal Saha**, Khondokar Nowshin Islam, Taslima Akter, Iffat Ara Rahman, Tahmina Islam and Tahsin Khan. 2019 Isolation and identification of amylolytic bacteria from garbage and garden soil. Bangladesh J. Bot. 48(3): 537-545.(September).
15. Mst. Aziza Begum, Nusrat Jahan Punom, Md Mostavi Enan Eshik, Mst. Khadiza Begum, **Mihir Lal Saha**, Mohammad Shamsur Rahman. 2019 Proximate composition, fatty acid and amino acid profile of striped catfish, *Pangasianodon hypophthalmus* (Sauvage, 1878) cultured in Bangladesh. Bioresearch Communications (BRC). 5(2): 715-724. (July).
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18. Md. Mostavi Enan Eshik, Nusrat Jahan Punom, Mst Khadiza Begum, Tahsin Khan, **Mihir Lal Saha** and Mohammad Shamsur Rahman. 2018 Molecular characterization of acute hepatopancreatic necrosis disease causing *Vibrio parahaemolyticus* strains in cultured shrimp *Penaeus monodon* in south-west farming region of Bangladesh. Dhaka Univ. J. Biol. Sci. **27** (1): 57-68 (January).
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21. **Mihir Lal Saha**, Sadia Afrin, Sonia Khan Sony and Mohammad Nurul Islam. 2017 Pigment producing soil bacteria of Sundarban Forest. Bangladesh J. Bot. 46(2): 717-724 (June)
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I do hereby declare that the above information in this Curriculum Vitae is accurate and correct.

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