



Faculty name: **Prof. (Dr.) Abdul Baquee Ahmed** (Principal, GIPS-Tezpur)

Number of publications: 41

List of Publications

1. Kalita, P., **Ahmed, A.B.**, Sen, S., Chakraborty, R., Pachua L., Phukan M.: Synthesis and characterization of citrate soft rice starch: A new strategy of producing disintegrating agent for design drug and resistant starch, *International Journal of Biological Macromolecules*, 2023, 240, pp. 124475.
2. Kalita, P., **Ahmed, A.B.**, Sen, S., Chakraborty, R.: Citric acid esterified Glutinous Assam bora rice starch enhances disintegration and dissolution efficiency of model drug, *International Journal of Biological Macromolecules*, 2023, 227, pp. 424–436.
3. Alom S, Ali F, Ali SR, **Ahmed AB.**: Phytochemistry and Pharmacological properties of *Morus alba* Linn. With reference to SARS-CoV-2 inhibiting potential, *Asian Journal of Chemistry*, 2022, 34(8), pp. 1983–1992. <https://doi.org/10.14233/ajchem.2022.23891>
4. Bordoloi, R., **Ahmed, A.B.**, Baishya, H.: Development and Validation of RP-UHPLC Method for Quantification of Gliclazide in Bulk and Pharmaceutical Dosage Form Using Quality-by-Design (QbD) Approach: A Shifting Paradigm, *Chromatographia* 2022, 85(8), pp. 719–732.
5. **Ahmed, A.B.**, Bordoloi, R., Bhattacharya, K.: Development and Validation of a RP-UHPLC Method for estimation of Gliclazide loaded Microsphere, *Research Journal of Pharmacy and Technology* 2022, 15(2), pp. 773–778
6. Kalita, P., **Ahmed, A.B.**, Sen, S., Chakraborty, R.: A comprehensive review on polysaccharides with hypolipidemic activity: Occurrence, chemistry and molecular mechanism, *International Journal of Biological Macromolecules*, 2022, 206, pp. 681–698.
7. Das SRD, **Ahmed AB**, Shil D, Das T, Alam F, Chakraborty J.: Antifungal Activity of Flavonoid Isolated from *Linderniacrustacea* (L) F. Muell against Traditionally Claimed Dermatophytes, *Journal of Pharmaceutical Research International*, 2021, 33(46B), pp. 2456-9119.
8. Bordoloi R, **Ahmed, AB**, Bhattacharya K.: Pharmacoscintigraphic evaluation and antidiabetic efficacy of gliclazide-loaded ^{99m}Tc-labelled mucoadhesive microspheres, *Future Journal of Pharmaceutical Sciences*, 2021, 7:229, pp. 2314-7253.
9. Bordoloi R, **Ahmed AB.**: Isolation and Evaluation of Starch from *Musa balbisiana* Species as A Mucoadhesive Polymer, *International Journal of Pharmacy and Pharmaceutical Research*, 2021, 21(4), pp.2349-7203.



10. Deka M, **Ahmed AB**, Chakraborty J.: Development, evaluation and characteristics of ophthalmic in situ gel system: a review, *International Journal of Current Pharmaceutical Research*, 2019, 4 (11), pp. 47-53.
11. Das SRC, **Ahmed AB**. Scientific evidence of *linderniacrustacea*(l) f.muell, an indigenous plant: a folklore medicine used traditionally. *International Research Journal of Pharmacy*, 2019, 10 (1), pp.176-183.
12. **Ahmed AB**, Das G. Effect of menthol on the transdermal permeation of aceclofenac from microemulsion formulation. *International Journal of Applied Pharmaceutics*, 2019, 11 (2), pp.117-122.
13. Rahman SS, **Ahmed AB**. Preparation, characterization and statistical optimization of Nevirapine loaded chitosan nanoparticle for vaginal delivery. *Journal of Pharmaceutical Sciences and Research*, 2019, 11(2): pp. 348-358.
14. Kalita, P., Roy, P.K., Chakraborty, R., **Ahmed, A.B.**, Devi, C.M.: Historical development, preparation, characterization, and pharmacokinetics of nanoparticles: A review, *Asian Journal of Pharmaceutics*, 2018, 12(4), pp. S1110–S1118.
15. Das, A., **Ahmed, A.B.**: Formulation and evaluation of transdermal patch of indomethacin containing patchouli oil as natural penetration enhancer, *Asian Journal of Pharmaceutical and Clinical Research*, 2017, 10(11), pp. 320–325.
16. Kar A, **Ahmed AB**. Enhancement of solubility and dissolution of ibuprofen by solid dispersion technique and formulation of sustained release tablets containing the optimised batch of solid dispersion. [*International Journal of Current Pharmaceutical Research*](#), 2017, 9 (5), pp. 37-44.
17. Rahman SS, **Ahmed AB**. Formulation and evaluation of nevirapine loaded polyethylene oxide based nanoparticle for vaginal drug delivery system. *International Journal of Pharmacy & Technology*. 2017; 9(2), pp. 30025-30038.
18. **Ahmed AB**, Bhaduri I. Development and Evaluation of Assam Bora Rice Starch-Carbopol Based Oral Mucoadhesive Gel of Irinotecan for Mouth Cancer. *Journal of Pharmaceutical Sciences and Research*, 2017, 9(7): pp.1139-1146.
19. Das A, **Ahmed AB**. Natural permeation enhancer for transdermal drug delivery system and permeation evaluation: a review. [*Asian Journal of Pharmaceutical and Clinical Research*](#), 2017, 10 (9): pp. 5-9.
20. **Ahmed AB**, Bhaduri I. Chemical modification, characterization and evaluation of



- mucoadhesive potentiality of Assam bora rice starch. *International Journal of Pharmacy and Pharmaceutical Sciences*, 2017, 9(9), pp. 132-137.
21. Rahman SS, **Ahmed AB**. Pre-formulation Studies and Prototype Formulation Development of Nevirapine Loaded Chitosan Based Nanoparticle for Vaginal Drug Delivery System. *International Journal of Pharmacy and Pharmaceutical Research*, 2017, 7(1), pp. 584-596.
 22. **Ahmed AB**, Das D, Sengupta R. Comparative antipyretic activity of ethanolic extracts of some species of *Cynodon* in rabbits. *Journal of Pharmacognosy and Phytochemistry*, 2016; 5(6): pp. 361-365.
 23. Rahman SS, **Ahmed AB**. Vaginal Drug Delivery System a Promising Approach for Antiretroviral Drug in the Prevention of HIV Infection: A Review. *Journal of Pharmaceutical Sciences and Research*, 2016, 8(12): pp.1330-1338.
 24. Sarkar T, **Ahmed AB**. Development and *in-vitro* characterisation of chitosan loaded paclitaxel nanoparticle. *Asian Journal of Pharmaceutical and Clinical Research*, 2016, 9(3): pp.145-148.
 25. Kalita C, **Ahmed AB**. Formulation and *in-vitro* evaluation of irinotecan loaded mucoadhesive microspheres made of chitosan-alginate mixture by using ionotropic gelation technique. *International Journal of Drug Research and Technology*, 2016, 6 (3), pp.127-137.
 26. **Ahmed AB**, Ahmed R, Sengupta R. Formulation and *in-vitro/ex-vivo* characterizations of microemulsion-based hydrogel formulation of aceclofenac for topical application. *Asian Journal of Pharmaceutical and Clinical Research*, 2016, 9(1): pp. 87-91.
 27. **Ahmed AB**, Nath LK. Design and development of controlled release floating matrix tablet of nicorandil using hydrophilic cellulose and pH independent acrylic polymer: *in-vitro* and *in-vivo* evaluations. *Expert Opinion on Drug Delivery*, 2016, 13(3): pp. 315-324.
 28. **Ahmed AB**, Knowler R, Sengupta R. Atorvastatin calcium loaded chitosan nanoparticles: *in vitro* evaluation and *in vivo* pharmacokinetic studies in rabbits. *Brazilian Journal of Pharmaceutical Sciences*, 2015, 51 (2): pp. 468-477.
 29. **Ahmed AB**, Sengupta R, Deb R. Design, development and evaluation of hollow microspheres of Repaglinide. *Journal of Chemical and Pharmaceutical Research*, 2014, 6(9): pp. 267-277.
 30. **Ahmed AB**, Nath LK. Drug-excipients compatibility studies of nicorandil in controlled release floating tablet. *International Journal of Pharmacy and Pharmaceutical Sciences*, 2014, 6(2), pp. 468-475.



31. Sengupta R, **Ahmed AB**. Evaluation of antidiarrheal activity of ethanolic extract of *Bauhinia variegata*(leguminosae) stem bark in Wistar albino rats. *International Journal of Pharmaceutical and Biomedical Research*, 2015, 5(1), pp. 1-6.
32. Patwari BN, **Ahmed AB**, Das T, Sengupta R. Phytochemical screening and analgesic effects of ethanolic extract of plant *Murdanianudiflora* (l) brenan (commelinaceae) in albino mice using hot plate method. *International Journal of Pharmacy and Pharmaceutical Sciences*, 2014, 6(7): pp. 512-515
33. Sungupta R, **Ahmed AB**, Banik JK. Pharmacognostical evaluation of *Terminalia Arjunabark* on different marketed samples. *Der Pharmacia Lettre*, 2014, 6 (3): pp. 299-303.
34. **Ahmed AB**. Penetration enhancing effect of naturally occurring terpenes on skin permeation of rofecoxib from transdermal gel for topical application. *Der Pharmacia Lettre*, 2014, 6 (4): pp. 278-282.
35. Konwar R, **Ahmed AB**. Nanoparticle: An overview of preparation, Characterization and application. *International Research Journal of Pharmacy*, 2013, 4 (4), pp. 47-57.
36. Deb R, **Ahmed AB**. Pellet and Pelletization techniques: A critical review. *International Research Journal of Pharmacy*, 2013, 4 (4), pp. 90-95.
37. **Ahmed AB**, Development and Optimization of Mucoadhesive Matrix Tablet for Nicorandil: *In-vitro* Evaluation and *In-vivo* Gastro-Retention. *Inventi Impact: Pharm Tech*, 2013, (3), pp. 1-11.
38. **Ahmed AB**, Nath LK. Fabrication and *in vitro* evaluation of floating matrix tablet of nicorandil using factorial design. *Journal of Pharmacy Research*, 2011, 4 (6), pp. 1950-1954.
39. Bhunia B, Behera KK, **Baquee A**, Hunuman PD. Optimization of Alkaline Protease Activity from *Bacillus Subtilis* 2724 by Response Surface Methodology (Rsm). *International Journal of Biological Sciences and Engineering*, 2010; 1(2), pp. 158-169.
40. Das MK, **Ahmed AB**. Skin permeation enhancement effects of ascorbic acid and triethyl citrate on rofecoxib. *Malaysian Journal of Pharmaceutical Sciences*, 2008, 6(1), pp. 69-86.
41. Das MK, **Ahmed AB**. Formulation and *ex vivo* evaluation of Rofecoxib gel for topical application. *ActaPoloniaePharmaceutica- Drug Research*, 2007; 64(5): pp. 461-467.



Faculty Name: **Dr. Hemanga Hazarika**

No.ofPublications: 18

Listofpublications

Research (12)/Review (2)/Conference (6)/Book Chapter (4)

1. **HazarikaHemanga**,TyagiV,KrishnatreyyaH,IslamJ,BoruahD,KishorS,ChattopadhyayP,ZamanK.Essentialoilbasedcontrolled-releasenon-toxicvaporatingtabletprovideseffectiverepellencyagainstMuscadomestica.**ActaTropica**. 2020 Oct 1;210:105620. Doi:<https://doi.org/10.1016/j.actatropica.2020.105620>
2. **Hazarika Hemanga**, Tyagi V, Krishnatreyya H, Roy PK, Islam J, Chakraborty S,Gogoi N, Kishor S, Bhutia YD, Goyary D, Karmakar S., Zaman K, Chattopadhyay P.Design, development and assessment of an essential oil based slow-release vaporizeragainstmosquitoes.**ActaTropica**.2020Jun4:105573.Doi:<https://doi.org/10.1016/j.actatropica.2020.105573>
3. **HazarikaHemanga**,KrishnatreyyaH,TyagiV,IslamJ,GogoiN,GoyaryD,Chattopadhyay P, Zaman K. The fabrication and assessment of mosquito repellentcreamforoutdoorprotection.**ScientificReports**.2022Feb9;12(1):2180.Doi:<https://doi.org/10.1038/s41598-022-06185-9>
4. Sahu BP, **Hazarika Hemanga**, Bharadwaj R, Loying P, Baishya R, Dash S, Das MK.Curcumin-docetaxelco-loadednanosuspensionforenhancedanti-breastcanceractivity.**Expertopinionondrugdelivery**.2016Aug2;13(8):1065-74.Doi:<https://doi.org/10.1080/17425247.2016.1182486>
5. **HazarikaHemanga**,BoruahS,IslamJ,PaulA,ZamanMK.Antimicrobial,MosquitoLarvicidal and Repellent Activity of Essential Oils Isolated from Three Local SpeciesofGingerGrowninUpperAssamRegion,India.**CurrentTrendsInPharmaceuticalResearch**.2020;7(1):126-42.
6. **HazarikaHemanga**,TyagiV,KrishnatreyyaH,KishorS,KarmakarS,BhattacharyyaDR,ZamanK,ChattopadhyayP.ToxicityofessentialoilsonAedesaegypti:avector



of chikungunya and dengue fever. **International Journal of Mosquito Research**.2018;5(3):51-7.

Co-authored research articles

1. Krishnatreyya H, **Hazarika Hemanga**, Saha A, Chattopadhyay P. Fundamental pharmacological expressions on ocular exposure to capsaicin, the principal constituent in peppers sprays. **Scientific reports**. 2018 Aug 14; 8(1): 1-7. Doi: <https://doi.org/10.1038/s41598-018-30542-2>
2. Krishnatreyya H, **Hazarika Hemanga**, Saha A, Mandal S, Bora NS, Kishor S, Bhutia YD, Goyary D, Karmakar S, Chattopadhyay P. Amelioration from the ocular irritant Capsaicin: development and assessment of a Capsazepine in situ gel system for ocular delivery. **Expert Opinion on Drug Delivery**. 2020 Apr 24: 1-8. Doi: <https://doi.org/10.1080/17425247.2020.1754396>
3. Chakrabarti S, Islam J, **Hazarika Hemanga**, Mazumder B, Raju PS, Chattopadhyay P. Safety profile of silver sulfadiazine-bFGF-loaded hydrogel for partial thickness burn wounds. **Cutaneous and Ocular Toxicology**. 2018 Jul 3; 37(3): 258-66. Doi: <https://doi.org/10.1080/15569527.2018.1442843>
4. Junejo JA, Gogoi G, Islam J, Rudrapal M, Mondal P, **Hazarika Hemanga**, Zaman K. Exploration of antioxidant, antidiabetic and hepatoprotective activity of *Diplazium esculentum* - a wild edible plant from northeastern India. **Future Journal of Pharmaceutical Sciences**. 2018 Jun 1; 4(1): 93-101. Doi: <https://doi.org/10.1016/j.fjps.2017.10.005>
5. Tyagi V, Patel R, **Hazarika Hemanga**, Dey P, Goswami D, Chattopadhyay P. Chemical composition and bioefficacy for larvicidal and pupicidal activity of essential oils against two mosquito species. **International Journal of Mosquito Research**. 2017; 4(4): 112-8.
6. Singha J, Chowdhury D, **Hazarika Hemanga**, Krishnatreyya H. Drug utilization studies on antibiotics in the department of medicine (in patient) of Gauhati medical college and hospital (GMCH), Guwahati. **International Journal of Pharmacy Practice and Drug Research**. 2018; 8(1): 34-9.



Review Article:

1. KrishnatreyyaH,**HazarikaHemanga**,Saha A, ChattopadhyayP.Capsaicin,theprimaryconstituentofpepperspraysanditspharmacologicaleffectsonmammalian ocular tissues. **European Journal of Pharmacology**. 2018 Jan 15;819:114-21. **IF:3.26**.Doi: <https://doi.org/10.1016/j.ejphar.2017.11.042>
2. **HazarikaHemanga**,KrishnatreyyaH,LaskarMA,GogoiP,ZamanK,Chattopadhyay P. Herbal Mosquito Repellent Liposomal Formulations: A Mini Review. *landscape*.2018;23(9):3319-29.

Book Chapter:

1. **Hazarika Hemanga**, Krishnatreyya H, Chattopadhyay P, Saha A, Pathak YV, ZamanMK. Nanoemulsion Delivery of Herbal Products: Prospects and Challenges. **NanoMedicine and Nano Safety**. 2020:267-88. Doi:https://doi.org/10.1007/978-981-15-6255-6_11
2. Islam J, **Hazarika Hemanga**, Roy PK, Patowary P, Chattopadhyay P, Pathak YV,Zaman K. Regulatory Perspectives and Concerns Related to Nanoparticle-Based LungDelivery.InHandbookofLungTargetedDrugDeliverySystems2021Oct17(pp.591-609).CRC Press.
3. KrishnatreyyaH,**HazarikaHemanga**,DasBK,GogoiN,AhmedAB,ZamanK.DrugDelivery Options for Treatment of Ebola Infection. InViral Drug Delivery Systems:Advances in Treatment of Infectious Diseases 2023 Apr 11 (pp. 161-191). Cham:Springer International Publishing.
4. **Hazarika Hemanga**, Krishnatreyya H, Bhattacharjee B, Rynjah D, Gogoi D, AhmedAB,ZamanK.LiposomalDrugDeliveryinMalaria.InMalarialDrugDeliverySystems: Advances in Treatment of Infectious Diseases 2023 Mar 7 (pp. 161-185).Cham:Springer International Publishing.

Conference abstract/presentation:

1. Research paper entitled “Fabrication and assessment of eugenol cream for mosquitorepellentactivity”wasselectedforpresentationunder**ISCAYoungScientistsAwardProgramme**for2020-



- 2023 in the Section of Medical Sciences (including Physiology), and gave oral presentation in 108th Indian Science Congress, held in RTMNU, Nagpur on 3rd-7th Jan. 2023
2. Presented an oral presentation in the 14th SOMA International conference of Medical Arthropodology on 27th Nov. 2021 (Online mode)
 3. Presented a poster in the **12th National Conference on VECTOR-BORNE AND ZOONOTIC DISEASES: Identification to Management** (25th and 26th Nov-2019) organized by the Zoological Survey of India, New Alipore, Kolkata
Topic: *Essential oil based liquid vaporizer formulation to control mosquito bites*
 4. Presented a poster in **ISNSCON-2018, 6th World Congress on Nanomedical Sciences**, Organised by Jamia Hamdard & University of Delhi, 7th to 9th Jan-2019
Topic: *Essential-oil based herbal approach to combat mosquito borne disease*
 5. Presented oral presentation in **North East Pharmaceutical Convention (NEPC)-2017**, at Maniram Dewan Trade Centre, Betkuchi, Guwahati.
Topic: *Chemical compositions and larvicidal activity of essential oils against Aedes aegyptian and Anopheles stephensi mosquitoes*
 6. Presented oral presentation in **International Conference on Disease Biology and Therapeutics 2014 (ICDBT-2014)**, at IASST, Boragan; Guwahati.
Topic: *Formulation and in vitro/in vivo evaluation of curcumin-docetaxel loaded nanosuspensions for enhanced anticancer activity*
 7. Research paper entitled "Fabrication and assessment of eugenol cream for mosquito repellent activity" was selected for presentation under **ISCA Young Scientists Award Programme for 2020-**
2023 in the Section of Medical Sciences (including Physiology), and gave oral presentation in 108th Indian Science Congress, held in RTMNU, Nagpur on 3rd-7th Jan. 2023
 8. Presented an oral presentation in the 14th SOMA International conference of Medical Arthropodology on 27th Nov. 2021 (Online mode)
 9. Presented a poster in the **12th National Conference on VECTOR-BORNE AND ZOONOTIC DISEASES: Identification to Management** (25th and 26th Nov-2019) organized by the Zoological Survey of India, New Alipore, Kolkata
Topic: *Essential oil based liquid vaporizer formulation to control mosquito bites*



**GIRIJANANDA
CHOWDHURY
UNIVERSITY**

- 10.** Presented a poster in **ISNSCON-2018, 6th World Congress on Nanomedical Sciences**, Organised by Jamia Hamdard & University of Delhi, 7th to 9th Jan-2019 **Topic:** *Essential-oil based herbal approach to combat mosquito born disease*
- 11.** Presented oral presentation in **North East Pharmaceutical Convention (NEPC)-2017**, at Maniram Dewan Trade Centre, Betkuchi, Guwahati. **Topic:** *Chemical compositions and larvicidal activity of essential oils against *Aedes aegyptian* and *Anopheles stephensi* mosquitoes*
- 12.** Presented oral presentation in **International Conference on Disease Biology and Therapeutics 2014 (ICDBT-2014)**, at IASST, Boragan; Guwahati. **Topic:** *Formulation and in vitro/in vivo evaluation of curcumin-docetaxel co-loaded nanosuspensions for enhanced anticancer activity*



Faculty Name: **Mr. RajatSubhra Dutta**

No. of Publications: 16

List of publications

Research/Review/Conference/Book chapters:

Research/ Review papers published in referred/peer reviewed journals (IF= Impact Factor)

1. Singh M, Pal P, **Dutta RS**, Marbaniang D, Ray S, Mazumder B. Nanodiamond mediated molecular targeting in Pancreatic Ductal adenocarcinoma: Disrupting the tumor-stromal cross-talk, next hope on the horizon? *Current Cancer Drug Targets*. 2023 Feb 27. doi:10.2174/1568009623666230227120837. IF: 2.907
2. Jana BK, Singh M, **Dutta RS**, Mazumder B. Current Drug Delivery Strategies for Buccal Cavity Ailments using Mouth Dissolving Wafer Technology: A Comprehensive Review on the Present State of the Art. *Current Drug Delivery*. 2022 Nov 28. doi:10.2174/1567201820666221128152010. IF:3.758
3. Konwar A, Paul P, **Dutta RS**, Konwar M. Green synthesis of silver nanoparticles from plant extract of *Phlogacanthusthysiflorus* Nees. and screening of its antimicrobial activity against *Staphylococcus aureus* and *Aspergillus niger*. *Research Journal of Biotechnology*. 2022, 17 (9), 54-58.
4. **Dutta RS**, Sahu S, Mazumder B. A Review on Bioactive Constituents of Essential Oils as Mosquito Repellent. *Current Bioactive Compounds*. 2022, 18(5), 2-12. doi: 10.2174/1573407218666211231124107.
5. Laldinchhana, **Dutta RS**, Thanzami K, Lalhlenmawia H, Pachuau L. Evaluation of the Food and Nutrition Value of *Rubusalceifolius* Poir. *Fruits of Mizoram, India*. *Current Nutrition & Food Science*. 2020, 16(4), 554-562. doi:10.2174/1573401315666190502162837.
6. Devi CM, Kalita P, **Dutta RS**. Development and validation of simple UV spectrophotometric method for estimation of brinzolamide. *Journal of Pharmaceutical and Scientific Innovation*. 2019, 8(2), 60-63.



7. Roy PK, Kalita P, Lahlhenmawia H, **Dutta RS**, Thanzami K, Zothanmawia C, Lalrosangi, Pachuau L, Chenkual S. International Journal of Pharmaceutical Sciences and Research. 2019, 10(5), 2385-2391.
8. Pachuau L, **Dutta RS**, Hauzel L, Devi TB, Deka D. Evaluation of novel microcrystalline cellulose from Enseteglaucum (Roxb.) Cheesman biomass as sustainable drug delivery biomaterial. Carbohydrate Polymers. 2019 Feb 15, 206, 336-343. doi: 10.1016/j.carbpol.2018.11.013. IF 10.723
9. Pachuau L, **Dutta RS**, Devi TB, Deka D, Hauzel L. Taro starch (Colocasia esculenta) and citric acid modified taro starch as tablet disintegrating agents. International Journal of Biological Macromolecules. 2018 Oct 15, 118(Pt A), 397-405. doi: 10.1016/j.ijbiomac.2018.06.086. IF 8.025.
10. **Dutta RS**, Hauzel L, Roy PK, Kalita P, Devi TB, Deka D, Pachuau L. Nanoprecipitated Ethylcellulose-Curcumin particles for controlled release and enhanced antioxidant activity. Current Nanoscience. 2018, 14(4), 298-306. doi:10.2174/1573413714666180115124626. IF 1.513
11. Pachuau L, **Dutta RS**, Roy PK, Kalita P, Lahlhenmawia H. Physicochemical and disintegrant properties of glutinous rice starch of Mizoram, India. International Journal of Biological Macromolecules. 2017 Feb, 95, 1298-1304. doi: 10.1016/j.ijbiomac.2016.11.029. IF 8.025
12. Roy PK, Kalita P, Golmei P, Hazarika I, Lahlhenmawia H, **Dutta RS**. A Need of a Novel Antimicrobial Suture for Surgical Site Infection. Research & Reviews: A Journal of Microbiology and Virology. 2016, 6, 1-4.
13. Roy PK, Lahlhenmawia H, **Dutta RS**, Golmei P, Kalita P, Hazarika I. A chronological review on preclinical and clinical evaluation of antimicrobial sutures. Research & reviews: A Journal of Pharmacology. 2016, 6, 13-16.

Book Chapters

International Book Chapters Published

1. Marbaniang D, **Dutta RS**, Gogoi NR, Ray S, Mazumder B. (2021) Biopolymeric nanocrystals in drug delivery and biomedical applications. In: Bera H., Layek B., Singh J. (eds) Tailor-Made and Functionalized Biopolymer Systems For



Drug Delivery and Biomedical Applications. Elsevier. doi:10.1016/B978-0-12-821437-4.00013-X.

2. Pachuau L, **Dutta RS**. (2020) Wild Edible Fruits of Northeast India: Medicinal Values and Traditional Practices. In: Sen S, Chakraborty R. (eds) Herbal Medicine in India. Springer, Singapore. doi:10.1007/978-981-13-7248-3_27.
3. Pachuau L, Devi CM, Goswami A, Sahu S, **Dutta RS**. (2019) Seed Oils as a Source of Natural Bio-active Compounds. In: Akhtar M, Swamy M, Sinniah U. (eds) Natural Bio-active Compounds. Springer, Singapore. doi:10.1007/978-981-13-7154-7_8

Conferences/Seminars/workshops publications

1. Goswami A, **Dutta RS**. Formulation, Characterization and Evaluation of curcumin loaded pH-responsive nanoparticles. Abstract published in the journal Current Trends in Pharmaceutical Research, 2018, 5(2), 106-107, Dibrugarh University as Proceedings of National Seminar, PharmaNanotech-2018, November, 23-24.
2. Patowary A, **Dutta RS**, Kakati A. Sodium carboxymethylation of glutinous rice starch Buhtui of Mizoram, India and its characterization. Abstract published in the journal Current Trends in Pharmaceutical Research, 2018, 5(2), 124-125, Dibrugarh University as Proceedings of National Seminar, PharmaNanotech-2018, November, 23-24.
3. Kakati A, **Dutta RS**, Patowary A. Synthesis and characterization of sodium carboxymethyl starch obtained from glutinous rice variety Ja pnah of Meghalaya. Abstract published in the journal Current Trends in Pharmaceutical Research, 2018, 5(2), 126-128, Dibrugarh University as Proceedings of National Seminar, PharmaNanotech-2018, November, 23-24.
4. Debbarma A, Kakati A, Patowary A, **Dutta RS**. A review on Traditional plants used for the treatment of diabetes in Mizoram, India. Abstract published as Proceedings of National Seminar on "Advancement in Healthcare Management: Traditional Knowledge to Contemporary Drug Technology" organized by Assam Down Town University Pharmacon-2019, March, 29-30, pp 30.
5. Kakati A, Patowary A, Debbarma A, Kalita P, **Dutta RS**. Tulsi (*Ocimum sanctum* L.): The incomparable herb of its traditional and medicinal uses. Abstract published



- as Proceedings of National Seminar on “Advancement in Healthcare Management: Traditional Knowledge to Contemporary Drug Technology” organized by Assam Down Town University Pharmacon-2019, March, 29-30, pp 35.
6. Patowary A, Kakati A, **Dutta RS**, Pachuau L, Kalita P. Evaluation of Prunus cerasoides gum as compression coating material for colonic delivery of prednisolone. Abstract published as Proceedings of National Seminar on “Advancement in Healthcare Management: Traditional Knowledge to Contemporary Drug Technology” organized by Assam Down Town University Pharmacon-2019, March, 29-30, pp 36.
 7. **Dutta RS**, Pachuau L, Kakati A, Patowary A, Debbarma A. Physicochemical properties of Fourteen different glutinous rice starch varieties of Northeast India. Abstract published as Proceedings in the International Conference on Chemistry & Environmental Sustainability (ICCES-2019)” organized by the Department of Chemistry, Mizoram University, 2019, February 19- 22, pp 226-229.



Faculty Name: **Mr. Damanbhalang Rynjah**

No. of Publications: 10

List of publications

Research/Review/Conference/Book chapters:

1. **Rynjah, D.;** Das, S. *In-vitro* study of anti-diabetic activity of leaves of *Thunbergia coccinea*. *Int. J. Res. and Ana. Rev.* **2019**, 6(2), 575-578.
2. Das, S.; **Rynjah, D.** In Vitro Anti-Oxidation Activity Studies of the Whole Plant (except Flower) of *Thunbergia Coccinea*. *J. Appl. Pharm. Res.* **2020**, 8, 45–49, doi:10.18231/j.joapr.2020.v.8.i.4.45.49.
3. **Rynjah, D.;** Chakraborty, T.; Das, A.; Islam, J.; Bordoloi, S.S.; Baishya, B.; Hasan, N. Recent Development in the Formulations of Ginger for Therapeutic Applications and an Overview towards the Action on SARS-COV-2. *Int. J. Pharm. Sci. Res.* **2021**, 12, 3537–3548, doi:10.13040/IJPSR.0975-8232.12(7).3537-48.
4. Baishya, B.; Rahman, S.S.; **Rynjah, D.;** Bordoloi, S.S.; Islam, J.; Hasan, N. Enhancing of Oral Bioavailability of Poorly water-soluble antihypertensive drugs. *Int. J. of Curr. Pharml. Res.* **2021**, 13(4), 42-47.
5. Saranga, Bordoloi, S.; Chakraborty, T.; Das, A.; Islam, J.; **Rynjah, D.;** Baishya, B. THE APPLICABILITY OF PALM TREES IN PHARMACEUTICALS AS EXCIPIENTS WITH A SPECIAL EMPHASIS ON PALM SUGAR: A REVIEW. *World J. Pharm. Res.* 2021, 10, 1778, doi:10.20959/wjpr20216-20682.
6. Islam, J.; Chakraborty, T.; Das, A.; **Rynjah, D.;** Bordoloi, S.S.; Baishya, B. The wound healing activity of *Calendula officinalis*: A Review. *World J. of Pharm. and Pharmac. Sci.* 2021, 10(7), 512-523.
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1. Laloo, D.; **Rynjah, D.**; Smith, K.; Bhattacharya, H. Pharmacognostical and phytochemical standardization of the aerial parts of *Potentilla fulgens* Wall. Abstract published as Proceedings in the 70th Indian Pharmaceutical Congress (IPC), 2018 at Amity University, Noida, New Delhi.
2. **Rynjah, D.**; Das, S. New Smart Contact lens to detect diabetes. Abstract published as proceedings in the National Pharmacist Convention, 2019 at Guwahati.
3. **Rynjah, D.**; Das S. A review on anti-diabetic activity of *Thunbergialaurifolia*. Abstract published as proceedings in the National Seminar, 2019 at GIPS-Guwahati.
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5. **Rynjah D.**, Chakraborty T, Das A. Formulation and evaluation of Ginger transdermal patch by using natural penetration enhancers. Abstract published as Proceedings in the International Conference at DRPI 2021-Online. A scientific oral presentation competition for Young Pharmaceutical Research across academia and industry, organized by SPDS in association with AAPS and APTI.
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Faculty Name: **Ms. ArzooNewar**

No. of Publications: 6

List of publications

Research/Review/Conference/Book chapters:

1. Nath, D., **Newar, A.**, Newar, P., Sharma, U., Singh, K., Choudhary, R., (2019). Basic Physicochemical Analysis of Water Samples Collected From East Sikkim. World Journal of Pharmaceutical and Life Sciences. 05(01), 79-89. https://www.wjpls.org/home/article_abstract/1216
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