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Education

PhD, University of Calcutta, 2004
Major: Chemistry

Employment

Academic - Post-Secondary

Academic - Post-Secondary, Lecturer I, The University of Texas Rio Grande Valley, (2015 - 2018)
Academic - Post-Secondary, Assistant Professor of Research, The University of Texas-Pan American, (2012 - 2015)
Academic - Post-Secondary, Postdoctoral Fellow with teaching assignment (as per requirement of the Department), The University of Texas-Pan American, (2007 - 2012)
Academic - Post-Secondary, Research Associate cum Lab Instructor, University of Calcutta, (2003 - 2007)

Licensures and Certifications Start

PFAS Removal in Drinking Water Treatment Systems, EPA Tools and Resources Training, (August 2020)
Water Reuse for Agricultural Purposes, EPA Water Research, (July 2020)
Sustainable Energy and Water Resource Management in Argentina, UTRGV International Programs and Partnerships , (June 2019)
HAZWOPER 40 hours Certificate, UT Health Center, (June 2018)
HAZWOPER 40 hours Certificate, UT Health Center, (May 2017)
Independent Applying the QM Rubric (APPQMR), UTRGV QM Program, (May 2017)
Introduction to the Soil and Water Assessment Tool (SWAT), Environmental Protection Agency, (April 2017)
EPA Waste Treatment, Transportation and Disposal, EPA CERCLA , (April 2016)
Groundwater Flow & Transport Modeling with GMS, AQUAVEO, (March 2015)

Publications

Book Chapters

Debasish Bandyopadhyay and Felipe Gonzalez. Anti-cancer Agents from Natural Sources . Florida: *Apple Academic Press (Exclusive worldwide distribution by CRC Press, a Taylor & Francis Group)*. (May)
<http://appleacademicpress.com/promising-drug-molecules-of-natural-origin-/9781771888868>
Debasish Bandyopadhyay and Valeria Garcia and Felipe Gonzalez. Heterocyclic Drugs from Plants. Florida: *Apple Academic Press (Exclusive worldwide distribution by CRC Press, a Taylor & Francis Group)*. (May)
<http://appleacademicpress.com/promising-drug-molecules-of-natural-origin-/9781771888868>
Debasish Bandyopadhyay and Gabriel Lopez and Stephanie Cantu and Samantha Balboa and Annabel Garcia and Christina Silva and Diandra Valdes. Key Enzymes in Cancer: Mechanism of Action and Inhibition with Anticancer Agents.. Hauppauge, New York: *Nova Science Publishers, Inc.*. (January (1st Quarter/Winter)): 357-387.
Debasish Bandyopadhyay and Bimal Banik. Microwaves in Lactam Chemistry. Boca Raton, Florida: *CRC Press (Taylor & Francis Group), LLC*. (December): 385-428.
Debasish Bandyopadhyay. Curcumin: A folklore remedy from kitchen on the way to clinic as cancer drug. Hauppauge, New York: *Nova Science Publishers, Inc.* (December): 1-42.
Debasish Bandyopadhyay and Bimal Banik. Microwave-induced Synthesis of Heterocycles of Medicinal Interests . Oxford: *Elsevier*. (December): 517-557.

Journal Article, Academic Journal

Bo Garza and Alondra Echeverria and Felipe Gonzalez and Orlando Castillo and Thomas Eubanks and Debasish Bandyopadhyay. Phytochemical investigation of Magnolia grandiflora green seed cones: Analytical and phytoceutical studies. (April (2nd Quarter/Spring))
Estefania Alexandre and Debasish Bandyopadhyay. Growth Factors in the Human Body: A Conceptual Update.: *Cohesive J. Microbiol. Infect. Dis.* . (March)
Raisa Ramirez and Debasish Bandyopadhyay. Pharmacological Aspects of Resveratrol. (March)

Subrata Laskar and Omar Espino and Debasish Bandyopadhyay. Isolation, solid-state structure determination, in silico and in vitro anticancer evaluation of an indole amino acid alkaloid L-Abrine.: *Current Cancer Drug Targets*.

Cristian Rosales and Debasish Bandyopadhyay. Vitamin D: Controversy, Cancer, and Beyond.: *Journal of Nutritional Biology*. (October (4th Quarter/Autumn))

Cristina Raya and Debasish Bandyopadhyay. Glutathione: A small molecule with big sense.: *International Journal of Pharma Sciences and Scientific Research*. (September)

[ESCNE 3.492, Department of Chemistry \(Edinburg campus\), The University of Texas Rio Grande Valley, 1201 West University drive, Edinburg, TX 78539, Department of Chemistry \(Edinburg campus\)](#).

Debasish Bandyopadhyay. A practical green synthesis, and biological evaluation of benzimidazoles against tropical diseases: Chagas and Leishmaniasis.

Debasish Bandyopadhyay and Bimal Banik. AMMONIUM CHLORIDE-INDUCED SYNTHESIS OF PYRROLES VIA PAAL-KNORR REACTION.: *HETEROCYCLIC LETTERS*. 7, : 463–465.

Debasish Bandyopadhyay. Dihydropyridines as calcium channel blockers: An overview.

Sushobhan Ukil and Subrata Laskar and Debasish Bandyopadhyay. Isolation, Purification and Partial Characterization of *Crotalaria pallida* Aiton Seed Proteins.: *International Journal of Peptide Research and Therapeutics*.: 1–7.

Debasish Bandyopadhyay. Microwave-assisted iodine-catalyzed rapid synthesis of 6H-indolo[2,3-b]quinolones: Formal synthesis of cryptotackieine.

Prakash Parvatkar and PS Parameswaran and Debasish Bandyopadhyay and Sanghamitra Mukherjee and Bimal Banik. Microwave-induced bismuth (III)-catalyzed synthesis of linear indoloquinolines.: *Tetrahedron Letters*. 58, : 2948–2951.

Sonya Rivera and Laura Iglesias and Debasish Bandyopadhyay and Bimal Banik. MICROWAVE-INDUCED BISMUTH NITRATE-CATALYZED ELECTROPHILIC SUBSTITUTION OF INDOLE WITH KETO ESTER UNDER SOLVENT-FREE CONDITIONS.

Debasish Bandyopadhyay and Bimal Banik. MICROWAVE-INDUCED BISMUTH NITRATE-CATALYZED EXPEDITIOUS ENAMINATION OF β -DICARBONYL COMPOUNDS UNDER SOLVENT-FREE CONDITIONS.

Debasish Bandyopadhyay and A Chavez and BK Banik. Microwave-Induced Bismuth Salts-Mediated Synthesis of Molecules of Medicinal Interests.: *Current medicinal chemistry*.

Ashlee Chavez and Jessica Cruz and Alexdra Munoz and Ram Yadav and Debasish Bandyopadhyay and Bimal Banik. MICROWAVE-INDUCED BISMUTH TRIIODIDE-CATALYZED FACILE SYNTHESIS OF OCTAHYDROXANTHENES.: *HETEROCYCLIC LETTERS*. 7, : 507–511.

Dina Abrego and Debasish Bandyopadhyay and Bimal Banik. MICROWAVE-INDUCED INDIUM-CATALYZED SYNTHESIS OF PYRROLE FUSED WITH INDOLINE IN WATER Mikrowellen-induzierten INDIUM-katalysierten Synthese von PYRROLE FUSED Mit Indolin IM WASSER.: *Heterocyclic Letters*. 1,

Debasish Bandyopadhyay and Stephanie Maldonado and Bimal Banik. PHOSPHORIC ACID CATALYZED AZA-MICHAEL REACTION IN WATER: AN ECOFRIENDLY PROCEDURE.

Fabián Olazarán-Santibáñez and Debasish Bandyopadhyay and Pilar Carranza-Rosales and Gildardo Rivera and Isaías Balderas-Rentería. Stereochemical preference toward oncotarget: Design, synthesis and in vitro anticancer evaluation of diastereomeric β -lactams.: *Oncotarget*.

Debasish Bandyopadhyay and BK Banik. Synthesis of medicinally privileged heterocycles through dielectric heating.: *Current medicinal chemistry*.

Fabian Olazarán and Carlos García-Pérez and Debasish Bandyopadhyay and Isaias Balderas-Rentería and Angel Reyes-Figueroa and Lars Henschke and Gildardo Rivera. Theoretical and experimental study of polycyclic aromatic compounds as β -tubulin inhibitors.: *Journal of molecular modeling*. 23, : 85.

Debasish Bandyopadhyay and Sanghamitra Mukherjee and Bimal K Banik. A Selective, Expeditious and Sustainable Entry en Route to Benzopyrazines and bis-Benzopyrazines.: *Combinatorial chemistry & high throughput screening*. 18, : 53–62.

Debasish Bandyopadhyay and Jorge Sanchez and Adrian Guerrero and Fang-Mei Chang and Jose Granados and John Short and Bimal Banik. Design, synthesis and biological evaluation of novel pyrenyl derivatives as anticancer agents.: *European journal of medicinal chemistry*. 89, : 851–862.

Debasish Bandyopadhyay and Lauren Smith and Daniel Garcia and Ram Yadav and Bimal Banik. An expeditious green route toward 2-aryl-4-phenyl-1 H-imidazoles.: *Organic and medicinal chemistry letters*. 4, : 9.

Debasish Bandyopadhyay and Gildardo Rivera and Jorge Sanchez and Jesse Rivera and Jose Granados and Adrian Guerrero and Fang-Mei Chang and Robert Dearth and John Short and Bimal Banik. Bismuth nitrate-induced novel nitration of estradiol: an entry to new anticancer agents.: *European journal of medicinal chemistry*. 82, : 574–583.

- Debasish Bandyopadhyay. Farmer to pharmacist: curcumin as an anti-invasive and antimetastatic agent for the treatment of cancer.: *Frontiers in chemistry*. 2,
- Debasish Bandyopadhyay and Artemio Zavala and Bimal K Banik. Organocatalyzed Green Synthesis of 2, 3-dihydropyrazines en Route to Medicinally Privileged Novel Polyheterocyclic Systems.: *Current Organocatalysis*. 1, : 59–65.
- Debasish Bandyopadhyay and G Rivera and J Sanchez and J Rivera and J Granados and A Guerrero and F Chang and Robert Dearth and J Short and Bimal Banik. Bismuth nitrate-induced novel nitration of estradiol: an entry to new anticancer agents.: *European journal of medicinal chemistry*. (July (3rd Quarter/Summer)) 82, : 574-83.
- Debasish Bandyopadhyay and Elvira Rhodes and Bimal Banik. A green, chemoselective, and practical approach toward N-(2-azetidiny) 2, 5-disubstituted pyrroles.: *RSC Advances*. 3, : 16756–16764.
- D Bandyopadhyaya. Evaluation of single electron transfer reduction products of 3-oxoindoles as antibacterial agents.: *Int. Journal of Pharm. and Pharmaceutical Sciences*. 5, : 477–450.
- Debasish Bandyopadhyay and Stephanie Maldonado and Bimal Banik. A microwave-assisted bismuth nitrate-catalyzed unique route toward 1, 4-dihydropyridines.: *Molecules*. 17, : 2643–2662.
- Debasish Bandyopadhyay and Jessica Cruz and Ram Yadav and Bimal Banik. An expeditious iodine-catalyzed synthesis of 3-pyrrole-substituted 2-azetidiones.: *Molecules*. 17, : 11570–11584.
- Debasish Bandyopadhyay and Bimal Banik. Bismuth nitrate-induced microwave-assisted expeditious synthesis of vanillin from curcumin.: *Organic and medicinal chemistry letters*. 2, : 15.
- Asish Das and Gargi Pal and Pranabes Bhattacharyya and Arnab Ghosh and Debasri Mukherjee and Debasish Bandyopadhyay. Design and synthesis of coumarinyl 1, 4-benzodioxanes as potential anti-oxidant.: *Tetrahedron Letters*. 53, : 7060–7066.
- Rosario Cárdenas and Blanca Leal and Ashwini Reddy and Debasish Bandyopadhyay and Bimal Banik. Microwave-assisted polystyrene sulfonate-catalyzed synthesis of novel pyrroles.: *Organic and medicinal chemistry letters*. 2, : 24.
- Debasish Bandyopadhyay and Jessica Cruz and Bimal Banik. Novel synthesis of 3-pyrrole substituted $\beta\beta$ -lactams via microwave-induced bismuth nitrate-catalyzed reaction.: *Tetrahedron*. 68, : 10686–10695.
- Debasish Bandyopadhyay and Jose Granados and John Short and Bimal Banik. Polycyclic aromatic compounds as anticancer agents: evaluation of synthesis and in vitro cytotoxicity.: *Oncology letters*. 3, : 45–49.
- Mandira Banik and Bianca Ramirez and Ashwini Reddy and Debasish Bandyopadhyay and Bimal Banik. Polystyrenesulfonate-catalyzed synthesis of novel pyrroles through Paal-Knorr reaction.: *Organic and medicinal chemistry letters*. 2, : 11.
- Debasish Bandyopadhyay and Sanghamitra Mukherjee and Jose Granados and John Short and Bimal Banik. Ultrasound-assisted bismuth nitrate-induced green synthesis of novel pyrrole derivatives and their biological evaluation as anticancer agents.: *European journal of medicinal chemistry*. 50, : 209–215.
- Debasish Bandyopadhyay and Juliana Velazquez and Bimal Banik. A truly green synthesis of α -aminonitriles via Strecker reaction.: *Organic and medicinal chemistry letters*. 1, : 11.
- Debasish Bandyopadhyay and M Banerjee and Subrata Laskar and Bidyut Basak. Asimafoetidol: a new sesquiterpenoid coumarin from the gum resin of *Ferula assa-foetida*.: *Natural product communications*. 6, : 209–212.
- Luis Canales and Debasish Bandyopadhyay and Bimal Banik. Bismuth nitrate pentahydrate-induced novel nitration of eugenol.: *Organic and medicinal chemistry letters*. 1, : 9.
- Sonya Rivera and Debasish Bandyopadhyay and Bimal Banik. Microwave-induced bismuth nitrate-catalyzed electrophilic substitution of 7-aza indole with activated carbonyl compound under solvent-free conditions.: *Heterocycl Lett*. 1, : 43–46.
- Dina Abrego and Debasish Bandyopadhyay and Bimal Banik. MICROWAVE-INDUCED INDIUM-CATALYZED SYNTHESIS OF PYRROLE FUSED WITH INDOLINE IN WATER.
- Rosemarie Andoh-Baidoo and Robert Danso and Sanghamitra Mukherjee and Debasish Bandyopadhyay and Bimal Banik. Microwave-induced N-bromosuccinimide-mediated novel synthesis of pyrroles via Paal-Knorr reaction.: *Heterocycl Lett*. 1, : 107–109.
- Debasish Bandyopadhyay and Marco Yanez and Bimal Banik. Microwave-induced stereoselectivity of $\beta\beta$ -lactam formation: effects of solvents.: *Heterocycl Lett*. 1, : 65–67.
- Pizush Biswas and Debasish Bandyopadhyay and Thierry Prange and Alain Neuman and Avijit Banerji. Remarkable Stereocontrol in 1, 3-Dipolar Cycloaddition of Acyclic Nitrones: Investigation of the Cycloaddition of C, N-Diaryl Nitrones to Methyl Cinnamate Under Different Reaction Conditions.: *Synthetic Communications*. 41, : 1146–1159.

- Antara Banik and Sahil Batta and Debasish Bandyopadhyay and Bimal Banik. A highly efficient bismuth salts-catalyzed route for the synthesis of α -aminophosphonates.: *Molecules*. 15, : 8205–8213.
- Laura Iglesias and Calista Aguilar and Debasish Bandyopadhyay and Bimal Banik. A New Bismuth Nitrate–Catalyzed Electrophilic Substitution of Indoles with Carbonyl Compounds Under Solvent-Free Conditions.: *Synthetic Communications*®. 40, : 3678–3682.
- Debasish Bandyopadhyay and Sanghamitra Mukherjee and Robert Rodriguez and Bimal Banik. An effective microwave-induced iodine-catalyzed method for the synthesis of quinoxalines via condensation of 1, 2-diamines with 1, 2-dicarbonyl compounds.: *Molecules*. 15, : 4207–4212.
- Debasish Bandyopadhyay and Sanghamitra Mukherjee and Bimal Banik. An expeditious synthesis of N-substituted pyrroles via microwave-induced iodine-catalyzed reactions under solventless conditions.: *Molecules*. 15, : 2520–2525.
- Debasish Bandyopadhyay and G Rivera and I Salinas and H Aguilar and BK Banik. Iodine-catalyzed remarkable synthesis of novel N-polyaromatic $\beta\beta$ -lactams bearing pyrroles.: *Molecules*. 15, : 1082–1088.
- Andrea Kall and Debasish Bandyopadhyay and Bimal Banik. Microwave-induced aza-Michael reaction in water: a remarkably simple procedure.: *Synthetic Communications*®. 40, : 1730–1735.
- Debasish Bandyopadhyay and Bimal Banik. Microwave-Induced Stereocontrol of $\beta\beta$ -Lactam Formation with an N-Benzylidene-9, 10-dihydrophenanthren-3-amine via Staudinger Cycloaddition.: *Helvetica Chimica Acta*. 93, : 298–301.
- Debasish Bandyopadhyay and Gildardo Rivera and Isabel Salinas and Hector Aguilar and Bimal Banik. Remarkable iodine-catalyzed synthesis of novel pyrrole-bearing N-polyaromatic $\beta\beta$ -lactams.: *Molecules*. 15, : 1082–1088.
- Gildardo Rivera and Debasish Bandyopadhyay and Sonam Jaggi and R Gonzales and Bimal Banik. An Expeditious Synthesis Of 3-Amino B-Lactams Derived From Polyaromatic Compounds.: *Heterocyclic Communications*. 15, : 323–326.
- Sonya Rivera and Debasish Bandyopadhyay and Bimal Banik. Facile synthesis of N-substituted pyrroles via microwave-induced bismuth nitrate-catalyzed reaction.: *Tetrahedron Letters*. 50, : 5445–5448.
- Debasish Bandyopadhyay and Monica Xavier and Bimal Banik. Highly stereoselective $\beta\beta$ -lactam synthesis via the Staudinger reaction using polyaromatic imines.: *Heterocyclic Communications*. 15, : 229–232.
- Debasish Bandyopadhyay and Antara Banik and Sahil Bhatta and Bimal Banik. Microwave-Assisted Ruthenium Trichloride-Catalyzed Synthesis Of Pyrrole Fused With Indole System In Water.: *Heterocyclic Communications*. 15, : 121–122.
- Avijit Banerji and Pizush Biswas and Debasish Bandyopadhyay and Maya Gupta and Thierry Prange and Alain Neuman. Synthetic Studies on 2 H-Thiopyran Compounds: A Reinvestigation of the Reaction Between Benzaldehydes and Sodium Sulfide.: *Phosphorus, Sulfur, and Silicon*. 184, : 3199–3211.
- Avijit Banerji and Pizush Biswas and Debasish Bandyopadhyay and Maya Gupta and Thierry Prange and Alain Neuman. 1, 3-Dipolar cycloadditions: Investigation of cycloadditions of c-aryl-n-(4-chlorophenyl) nitrones to n-cinnamoyl piperidines.: *Journal of heterocyclic chemistry*. 44, : 137–143.
- Avijit Banerji and Debasish Bandyopadhyay and Bidyut Basak and Pizush Biswas and Julie Banerji and Asima Chatterjee. An entry to the synthesis of novel nitrogen macroheterocycles.: *Bulletin of the Chemical Society of Japan*. 80, : 1199–1201.
- Asima Chatterjee and Utpal Dutta and Debasish Bandyopadhyay and Anupam Nayak and Bidyut Basak and Avijit Banerji and Julie Banerji. An overview of the genus Nardostachys.: *NATURAL PRODUCT COMMUNICATIONS*. 2, : 1163–1173.
- Debasish Bandyopadhyay and Anupam Nayak and Bidyut Basak and Avijit Banerji and Julie Banerji and Asima Chatterjee and Thierry Prange and Alain Neuman. N-(4-methylphenyl) benzenepropanamide-the first isolated amide from the genus Paederia.: *NATURAL PRODUCT COMMUNICATIONS*. 2, : 753–754.
- M Sundar and AK Nath and DK Bandyopadhyay and SP Chaudhuril and PK Dey and D Misral and BT Rao. Design and Performance Evaluation of a Supersonic Nozzle used for Laser Cutting of Thick Carbon Steel.: *Journal for Manufacturing Science and Production*. 7, : 215–228.
- Debasish Bandyopadhyay and Bidyut Basak and Asima Chatterjee and Tapan Lai and Avijit Banerji and Julie Banerji and Alain Neuman and Thierry Prangé. Saradaferin, a new sesquiterpenoid coumarin from *Ferula assafoetida*.: *Natural product research*. 20, : 961–965.
- Avijit Banerji and Debasish Bandyopadhyay and Piyali Sengupta and Bidyut Basak and Thierry Prangé and Alain Neuman. The first report of unusual flipping of the cycloadducts from 1, 3-dipolar cycloaddition of 3, 4, 5, 6-tetrahydropyridine N-oxide to N-cinnamoyl piperidines.: *Tetrahedron letters*. 47, : 3827–3830.
- Avijit Banerji and Debasish Bandyopadhyay and Bidyut Basak and Pizush Biswas and Julie Banerji and Asima Chatterjee. A New Route to the Synthesis of Indolo [2, 3-a] carbazoles.: *Chemistry letters*. 34, : 1500–1501.

Avijit Banerji and Debasish Bandyopadhyay and Bidyut Basak and Kumar Sur and Jyoti Paul and Julie Banerji and Asima Chatterjee. Effect of sodium naphthalenide, a key SET reagent, on trifluoroacetyl derivatives.: *Tetrahedron letters*. 46, : 7033–7035.

B Basak and Debasish Bandyopadhyay and M Patra and A Banerji and A Chatterjee and J Banerji. Role of sulfur compounds in the detection of amino acids by ninhydrin on TLC plate.: *Journal of chromatographic science*. 43, : 104–105.

A Banerji and Debasish Bandyopadhyay and B Basak and T Prangé and A Neuman. Structure elucidation and X-ray crystallographic study of 3-(naphth-1-ylmethyl) indole.: *Journal of Structural Chemistry*. 46, : 906–912.

Avijit Banerji and Debasish Bandyopadhyay and Thierry Prangé and Alain Neuman. Unexpected cycloadducts from 1, 3-dipolar cycloaddition of 3, 4-dehydromorpholine N-oxide to N-cinnamoyl piperidines—first report of the novel formation of 2: 1 cycloadducts.: *Tetrahedron letters*. 46, : 2619–2622.

Bidyut Basak and Debasish Bandyopadhyay and Avijit Banerji and Julie Banerji and Asima Chatterjee. Use of ninhydrin for detection of silylated amino acids.: *Journal of Planar Chromatography-Modern TLC*. 18, : 251.

Avijit Banerji and Debasish Bandyopadhyay and Bidyut Basak. Effect of sodium naphthalenide, a key set reagent, on 3-substituted indoles.: *Heterocycles*. 63, : 2371–2377.

Avijit Banerji and Debasish Bandyopadhyay. Recent advances in the 1, 3-dipolar cycloaddition reactions of nitrones.: *JOURNAL-INDIAN CHEMICAL SOCIETY*. 81, : 817–832.

Conference Proceedings

Armando Paniagua and Sunena Chandra and Ram Yadav and Debasish Bandyopadhyay and Bimal Banik. Copper free intramolecular beta-lactam tethered azide-alkyne [3+ 2] cycloaddition: An efficient synthesis of enantiopure tricyclic beta-lactam triazoles. 248,

Ravi Reddaboyna and Debasish Bandyopadhyay and Ram Yadav and Bimal Banik. Diastereoselective synthesis of beta-lactam derived from ketones. 247,

Debasish Bandyopadhyay and Daniel Garcia and Bimal Banik. Green synthesis of polyhydroquinolines: An easy and practical approach. 248,

Ram Yadav and Armando Paniagua and Sunena Chandra and Debasish Bandyopadhyay and Bimal Banik. Intramolecular azide alkyne [3+ 2] cycloaddition: An efficient route to azeto-triazole diazepinone. 248,

Debasish Bandyopadhyay and Alex Velasco and Iliana Chapa and Bimal Banik. Sonochemical route toward diversely substituted dicoumarols: A sustainable protocol. 248,

Debasish Bandyopadhyay and Christopher Garcia and Bimal Banik. Synthesis of pyridopyrazines under controlled microwave exposure: A green procedure. 247,

Debasish Bandyopadhyay and Daniel Garcia and Bimal Banik. Ultrasound-assisted organocatalyzed synthesis of quinoxalines and bis-quinoxalines: A green protocol. 247,

Debasish Bandyopadhyay and Ashlee Chavez and Bimal Banik. Bismuth nitrate-catalyzed Paal-Knorr reaction of 3-amino beta-lactams: A green approach toward substituted pyrroles. 245,

Debasish Bandyopadhyay and Jessica Cruz and Ram Yadav and Bimal Banik. Clauson-Kaas reaction of 3-amino beta-lactams: A novel entry toward N-(2-azetidione)-substituted pyrroles. 245,

Debasish Bandyopadhyay and Aymi Rodriguez and Louis Gonzalez and Bimal Banik. First report for the one-pot synthesis of 4a-hydroxy-9-phenyldecahydro-1H-xanthene-1, 8 (8aH)-dione following green route. 246,

Debasish Bandyopadhyay and Erika Razo and Bimal Banik. Microwave-assisted practical green approach toward dicoumarols. 246,

Ashlee Chavez and Debasish Bandyopadhyay and Bimal Banik. Stereoselective synthesis of novel bis-beta-lactams. 245,

Debasish Bandyopadhyay and Lauren Smith and Bimal Banik. Ultrasound-assisted green approach toward substituted 2, 4 (1H)-diarylimidazoles. 246,

Bimal Banik and Indrani Banik and Debasish Bandyopadhyay and Frederick Becker. Microwave-induced novel synthesis of anticancer b-lactam. 244,

Debasish Bandyopadhyay and Bimal Banik. Synthesis of vanillin from curcumin: An easy and practical approach. 244,

Debasish Bandyopadhyay and John Short and Chris Granados and Bimal Banik. Synthesis and biological evaluation of new polyaromatic anticancer agents. 241,

Debasish Bandyopadhyay and Luis Turrubiarres and Frederick Becker and Bimal Banik. Diastereoselectivity of b-lactam formation with polyaromatic imines: Synthesis of novel anticancer agents. 240,

Katherine Ramos and Debasish Bandyopadhyay and Bimal Banik. Phosphoric acid-catalyzed-Michael reaction of indoles. 239,

Debasish Bandyopadhyay and Antara Banik and Sahil Bhatta and Bimal Banik. Bismuth salts-catalyzed easy and highly efficient route to the synthesis of versatile alpha-amino phosphonates. 238,

Jerome Escano and Debasish Bandyopadhyay and Bimal Banik. Bismuth salts-induced alkylation of active methylene compounds with benzylic alcohols: A remarkable, simple, and efficient procedure. 238,

Debasish Bandyopadhyay and Erica Cuate and Bimal Banik. Green chemistry: Indium-promoted practical method for the synthesis of quinoxalines. 238,

Sonya Rivera and Debasish Bandyopadhyay and Bimal Banik. Microwave-assisted bismuth nitrate-catalyzed novel synthesis of pyrroles. 237,

Reynaldo Gonzalez and Debasish Bandyopadhyay and Bimal Banik. Synthesis of 3-amino beta-lactams derived from polyaromatic compounds. 238,

Debasish Bandyopadhyay and Monica Xavier and Bimal Banik. Synthesis of phthalimido beta-lactams via the Staudinger reaction using polyaromatic imines. 238,

Others

Bimal Banik and Debasish Bandyopadhyay. *Advances in Microwave-Assisted Chemistry*. Boca Raton, Florida: CRC Press (Taylor & Francis Group), LLC. (December): 1-522.

Media Contributions

Internet

ACS Science Tuesdays on Reddit (September 26, 2017)

Other

Newspaper/TV/Radio/Magazine/Internet (August 22, 2017)

Contracts, Grants and Sponsored Research

Engil Pereira and Chu-Lin Cheng and James Kang and Thang Pham and Wendi Williams and Thanh Thuy Vu and Joanne Nadia Rampersad-Ammons and Alejandro Fierro Cabo and Wan-Lin Chang and Debasish Bandyopadhyay and Veerachandra K Yemmireddy and Robin Alan Choudhury. Grant Pathways to NRCS and Academic Careers to Civil Engineering and Agriculture Students (PANACEAS) USDA-NIFA-EWD-REEU Federal , 750000\$ (December 2021 - December 2027)

Karen Martirosyan and Yuanbing Mao and Jianzhi Li and Chu-Lin Cheng and Mircea Chipara and Mataz Yehia Alcoutlabi and Debasish Bandyopadhyay and Dorina Magdalena Chipara and Paul Yoonsu Choi and Javier Macossay-Torres and Shizue Mito and Mohammed Uddin and Yonghong Zhang. Grant HBCU/MI: Acquisition of an Electron Paramagnetic Resonance Spectroscopy System for Interdisciplinary Research and Education in Advanced Materials at the University of Texas Rio Grande Valley DoD Federal , 599803\$ (August 2019 - September 2020)

Debasish Bandyopadhyay. Grant Antipancreatic Cancer Beta-Lactams: Liposomal Formulation and Delivery Robert J. & Helen C. Kleberg Foundation of Texas Foundation , 222189.00 \$ (August 2014 - May 2017)

Debasish Bandyopadhyay. Grant Exploratory Synthesis and Preclinical Development of Novel Anti-Cancer Beta-Lactams Robert J. & Helen C. Kleberg Foundation of Texas Foundation , 195140.00\$ (August 2014 - May 2017)

Awards and Honors

Leadership

Presiding a scientific session at the American Chemical Society national meeting. American Chemical Society (August 2019)

Joining as EB member (Advances in Nutrition & Food Science). *Advances in Nutrition & Food Science* (June 2019)

Mentoring

High Scholars Program 3rd place. College of Sciences (UTRGV) (August 2019)

Scholarship/Research

Invited Lecture (USDA H.S.I.). USDA (March 2019)

American Chemical Society national meeting's Press Release. American Chemical Society (August 2017)

Service, Community

ACS Expert. American Chemical Society (September 2017)

Service, Professional

Outstanding Reviewer Recognition. Bentham Science Publishers (July 2019)

Recognition as Outstanding Reviewer. *Food Chemistry* (Elsevier) (October 2018)

Presentations

Debasish Bandyopadhyay."Highly efficient transition metal-free green synthesis of 4-aryl-2,4-dihydropyranopyrazoles".258th ACS National Meeting & Exposition, San Diego, CA, United States, August 25-29, 2019 , American Chemical Society, (August 25, 2019)

Debasish Bandyopadhyay."Trash-to-treasure transformation: Industrially and medicinally privileged compounds from Spanish moss, a neglected botanical".258th ACS National Meeting & Exposition, San Diego, CA, United States,

August 25-29, 2019 , American Chemical Society, (August 25, 2019)

Debasish Bandyopadhyay."Microwave-assisted sustainable entry to 6H-chromeno[4,3-b]quinolin-6-ones".257th ACS National Meeting & Exposition, Orlando, FL, United States, Mar. 31-Apr. 4, 2019 , American Chemical Society, (April 02, 2019)

Debasish Bandyopadhyay."Phytochemical investigation of Magnolia grandiflora green seed cones".257th ACS National Meeting & Exposition, Orlando, FL, United States, Mar. 31-Apr. 4, 2019 , American Chemical Society, (April 02, 2019)

Debasish Bandyopadhyay."Nexus of Synthesis, Semi-Synthesis and Extraction: Botanicals in Drug Development".USDA Seminar for H.S.I., (March 27, 2019)

Debasish Bandyopadhyay."Catalyst/solvent/support/additive/promoter-free green synthesis of 5-methyl-thiazolidin-4-ones".256th ACS National Meeting, The University of Texas Rio Grande Valley, Boston, MA. (August 22, 2018)

Debasish Bandyopadhyay."Ultrasound-assisted expeditious green synthesis of pyrano[2,3-c]pyrazoles".256th ACS National Meeting, American Chemical Society, Boston, MA. (August 22, 2018)

Debasish Bandyopadhyay."Ultrasound-assisted greener reaction of o-phenylenediamine with aldehyde: Benzimidazole versus 1,2-disubstituted benzimidazole formation".256th ACS National Meeting, American Chemical Society, Boston, MA. (August 20, 2018)

Debasish Bandyopadhyay."Expedient 'on water' chemoselective green synthesis of 4-aminocoumarin bearing chromeno[4,3-b]quinolin-6-ones".255th ACS National Meeting, American Chemical Society, New Orleans, LA. (March 21, 2018)

Debasish Bandyopadhyay."Chemoselective concurrent synthesis of benzimidazoles and 1,2-disubstituted benzimidazoles: Greener route and in vitro anti-cervical cancer evaluation".255th ACS National Meeting, American Chemical Society, New Orleans, LA. (March 20, 2018)

Debasish Bandyopadhyay."Nexus of food, energy, and bioactivity: Tomato juice mediated, microwave-assisted green route towards bioactive pyrroles".255th ACS National Meeting, American Chemical Society, New Orleans, LA. (March 20, 2018)

Debasish Bandyopadhyay."Nexus of extraction, chemical modification, and synthesis: Natural products in drug development".International Conference of Chemistry for Human Development [ICCHD-2018] , CU &HIT (India), Kolkata, India. (January 09, 2018)

Debasish Bandyopadhyay."Treasures from Trash: Avocado Seed Husks as a Potential Source of Medicinal and Industrially Privileged Compounds".End-of-season meeting of the Peruvian Avocado Commission, Peruvian Avocado Commission, Ritz Carlton Hotel in New Orleans. (October 19, 2017)

Debasish Bandyopadhyay."Treasures from Trash: Avocado Seed Husks as a Potential Source of Medicinal and Industrially Privileged Compounds".Mid-season meeting of the World Avocado Organization , World Avocado Organization , Ritz Carlton Hotel in New Orleans. (October 18, 2017)

Debasish Bandyopadhyay."One-pot concurrent synthesis of thiazolidinones and benzothiazepinones: A greener route".254th ACS National Meeting, American Chemical Society, Washington, DC. (August 23, 2017)

Debasish Bandyopadhyay."Chemical investigation of Avocado (*Persea americana*) seed husk: A waste of waste".254th ACS National Meeting, American Chemical Society, Washington, DC. (August 22, 2017)

Debasish Bandyopadhyay."Chemical investigation of southern live oak (*Quercus virginiana*) galls".254th ACS National Meeting, American Chemical Society, Washington, DC. (August 22, 2017)

Debasish Bandyopadhyay."Medicinally privileged compounds from Magnolia grandiflora green seed cones".254th ACS National Meeting, American Chemical Society, Washington, DC. (August 22, 2017)

Debasish Bandyopadhyay."On water green synthesis of antitubercular dicoumarols".254th ACS National Meeting, American Chemical Society, Washington, DC. (August 22, 2017)

Debasish Bandyopadhyay."First report of diastereodifferentiation of 2-azetidinones towards anticancer activity: Design, synthesis and in vitro evaluation".253rd ACS National Meeting, American Chemical Society, San Francisco, CA. (April 04, 2017)

Debasish Bandyopadhyay."Isolation, characterization, in silico and in vitro anticancer evaluation".253rd ACS National Meeting, American Chemical Society, San Francisco, CA. (April 04, 2017)

Debasish Bandyopadhyay."Isolation, purification and partial characterization of *Crotalaria pallida* Ait seed proteins".253rd ACS National Meeting, American Chemical Society, San Francisco, CA. (April 04, 2017)

Debasish Bandyopadhyay."Microwave-assisted green synthesis of 1,3-thiazolidin-4-ones: An Insight".253rd ACS National Meeting, American Chemical Society, San Francisco, CA. (April 04, 2017)

Debasish Bandyopadhyay."Polycyclic Compounds as Anticancer Agents".3rd National Symposium of Pharmaceutical Sciences and Biomedicine and 1st National Symposium of Applied Microbiology , Universidad Autónoma de Nuevo León, Mexico , (September 01, 2016)

Debasish Bandyopadhyay."Synthesis of bioactive 2-azetidinones via [2+2] ketene-imine cycloaddition strategy".252nd ACS National Meeting, American Chemical Society, Philadelphia, PA. (August 24, 2016)

Debasish Bandyopadhyay."Fast and green one-pot multicomponent synthesis of substituted thiazolidin-4-ones".252nd ACS National Meeting, American Chemical Society, Philadelphia, PA. (August 23, 2016)

Debasish Bandyopadhyay."Green multicomponent synthesis of tetrahydro-spiro[indoline-3,1'-naphthalene] derivatives".252nd ACS National Meeting, American Chemical Society, Philadelphia, PA. (August 23, 2016)

Debasish Bandyopadhyay."Green expeditious synthesis of medicinally privileged chromeno[4,3-b]chromen-6(7H)-ones".252nd ACS National Meeting, American Chemical Society, Philadelphia, PA. (August 22, 2016)

Debasish Bandyopadhyay."Microwave-assisted, new green route toward chromeno[4,3-b]chromen-6(7H)-one".251st ACS National Meeting, American Chemical Society, San Diego, CA. (March 15, 2016)

Debasish Bandyopadhyay."β-Lactams as anticancer agent: Design, synthesis, and biological evaluation".251st ACS National Meeting, American Chemical Society, San Diego, CA. (March 15, 2016)

Debasish Bandyopadhyay."One-pot, four-component green synthesis of medicinally privileged pyranopyrazoles".251st ACS National Meeting, American Chemical Society, San Diego, CA. (March 14, 2016)

Debasish Bandyopadhyay."Synthesis of spiro indole-3,1'-naphthalene tetracyclic system: A green approach".251st ACS National Meeting, American Chemical Society, San Diego, CA. (March 14, 2016)

Debasish Bandyopadhyay."Synthesis and in vitro biological evaluation of N-aryl-3-pyrrolyl-β-lactams against cancer cells".250th ACS National Meeting, American Chemical Society, Boston, MA. (August 19, 2015)

Debasish Bandyopadhyay."Design, synthesis, and anticancer assessment of 1,4-diaryl-3-(1H-pyrrol-1-yl)azetidin-2-ones".250th ACS National Meeting, American Chemical Society, Boston, MA. (August 18, 2015)

Debasish Bandyopadhyay."Design, synthesis, and antitubercular evaluation of diversely substituted quinoxalines".250th ACS National Meeting, American Chemical Society, Boston, MA. (August 18, 2015)

Debasish Bandyopadhyay."Organocatalyzed multicomponent synthesis of pyranopyrazoles: A green approach".250th ACS National Meeting, American Chemical Society, Boston, MA. (August 18, 2015)

Debasish Bandyopadhyay."Design, synthesis, and anticancer evaluation of diversely substituted 2-azetidinones".250th ACS National Meeting, American Chemical Society, Boston, MA. (August 17, 2015)

Debasish Bandyopadhyay."Ultrasound-assisted green synthesis of diversely substituted oxindoles".249th ACS National Meeting, American Chemical Society, Denver, CO. (March 25, 2015)

Debasish Bandyopadhyay."Organocatalyzed green synthesis of bis-benzopyrazines: An entry to novel heteroaromatics".249th ACS National Meeting, American Chemical Society, Denver, CO. (March 24, 2015)

Debasish Bandyopadhyay."One-pot four-component synthesis of pyranopyrazoles under microwave irradiation: A green procedure".249th ACS National Meeting, American Chemical Society, Denver, CO. (March 23, 2015)

Debasish Bandyopadhyay."Synthesis of pyrazolopyranopyrimidines under controlled microwave exposure: An eco-friendly approach".249th ACS National Meeting, American Chemical Society, Denver, CO. (March 23, 2015)

Debasish Bandyopadhyay."Intramolecular azide alkyne [3+2] cycloaddition: An efficient route to azeto-triazole diazepinone".248th ACS National Meeting, American Chemical Society, San Francisco, CA. (August 13, 2014)

Debasish Bandyopadhyay."Ultrasound-assisted Lewis acid catalyzed sustainable route toward benzimidazoles".248th ACS National Meeting, American Chemical Society, San Francisco, CA. (August 13, 2014)

Debasish Bandyopadhyay."Copper free intramolecular β-lactam tethered azide-alkyne [3+2] cycloaddition: An efficient synthesis of enantiopure tricyclic β-lactam triazoles".248th ACS National Meeting, American Chemical Society, San Francisco, CA. (August 12, 2014)

Debasish Bandyopadhyay."Sonochemical route toward diversely substituted dicoumarols: A sustainable protocol".248th ACS National Meeting, American Chemical Society, San Francisco, CA. (August 12, 2014)

Debasish Bandyopadhyay."Green synthesis of polyhydroquinolines: An easy and practical approach".248th ACS National Meeting, American Chemical Society, San Francisco, CA. (August 11, 2014)

Debasish Bandyopadhyay."Diastereoselective synthesis of beta-lactam derived from ketones".247th ACS National Meeting, American Chemical Society, Dallas, TX. (March 19, 2014)

Debasish Bandyopadhyay."Ultrasound-assisted organocatalyzed synthesis of quinoxalines and bis-quinoxalines: A green protocol".247th ACS National Meeting, American Chemical Society, Dallas, TX. (March 19, 2014)

Debasish Bandyopadhyay."Organocatalyzed practical and ecofriendly synthesis of 2,3-dihydropyrazines".247th ACS National Meeting, American Chemical Society, Dallas, TX. (March 18, 2014)

Debasish Bandyopadhyay."Synthesis of pyridopyrazines under controlled microwave exposure: A green procedure".247th ACS National Meeting, American Chemical Society, Dallas, TX. (March 17, 2014)

Debasish Bandyopadhyay."Ultrasound-assisted organocatalyzed green synthesis of medicinally privileged benzimidazoles".247th ACS National Meeting, American Chemical Society, Dallas, TX. (March 17, 2014)

Debasish Bandyopadhyay."First report for the one-pot synthesis of 4a-hydroxy-9-phenyldecahydro-1H-xanthene-1,8(8aH)-dione following green route".246th ACS National Meeting, American Chemical Society, Indianapolis, Indiana. (September 11, 2013)

Debasish Bandyopadhyay."Green synthesis and biological evaluation of quinoxalines and bis-quinoxalines as Stat3 phosphorylation/activation inhibitor".246th ACS National Meeting, American Chemical Society, Indianapolis, Indiana. (September 10, 2013)

Debasish Bandyopadhyay."Microwave-assisted practical green approach toward dicoumarols".246th ACS National Meeting, American Chemical Society, Indianapolis, Indiana. (September 10, 2013)

Debasish Bandyopadhyay."Microwave-assisted bismuth nitrate pentahydrate catalyzed novel entry toward 3,3-di(3-indolyl)-2-oxindoles and 3-indolyl-3-hydroxy oxindoles".246th ACS National Meeting, American Chemical Society, Indianapolis, Indiana. (September 09, 2013)

Debasish Bandyopadhyay."Green synthesis and in vitro biological evaluation of benzimidazoles against Chagas' disease and leishmaniasis".245th ACS National Meeting, American Chemical Society, New Orleans, Louisiana. (April 10, 2013)

Debasish Bandyopadhyay."Stereoselective synthesis of novel bis- β -lactams".245th ACS National Meeting, American Chemical Society, New Orleans, Louisiana. (April 10, 2013)

Debasish Bandyopadhyay."Clauson-Kaas reaction of 3-amino β -lactams: A novel entry toward N-(2-azetidinone)-substituted pyrroles".245th ACS National Meeting, American Chemical Society, New Orleans, Louisiana. (April 09, 2013)

Debasish Bandyopadhyay."Bismuth nitrate-catalyzed Paal-Knorr reaction of 3-amino β -lactams: A green approach toward substituted pyrroles".245th ACS National Meeting, American Chemical Society, New Orleans, Louisiana. (April 08, 2013)

Debasish Bandyopadhyay."Microwave-induced novel synthesis of anticancer β -lactam".244th ACS National Meeting, American Chemical Society, Philadelphia, Pennsylvania. (August 22, 2012)

Debasish Bandyopadhyay."Synthesis of vanillin from curcumin: An easy and practical approach".244th ACS National Meeting, American Chemical Society, Philadelphia, Pennsylvania. (August 22, 2012)

Debasish Bandyopadhyay."Microwave-assisted green route toward Hantzsch 1,4-dihydropyridines".244th ACS National Meeting, American Chemical Society, Philadelphia, Pennsylvania. (August 20, 2012)

Debasish Bandyopadhyay."Synthesis of 3-pyrrole substituted β -lactams: A novel approach".244th ACS National Meeting, American Chemical Society, Philadelphia, Pennsylvania. (August 20, 2012)

Debasish Bandyopadhyay."Bismuth nitrate catalyzed expeditious synthesis of 2,4,6-triarylpyridines".243rd ACS National Meeting, American Chemical Society, San Diego, CA. (March 28, 2012)

Debasish Bandyopadhyay."Synthesis of pyrenyl compounds as potential anticancer agents".243rd ACS National Meeting, American Chemical Society, San Diego, CA. (March 27, 2012)

Debasish Bandyopadhyay."Bismuth nitrate-induced novel nitration of estradiol: An entry to new anticancer agents".243rd ACS National Meeting, American Chemical Society, San Diego, CA. (March 26, 2012)

Debasish Bandyopadhyay."Synthesis of polycyclic aromatic compounds and their biological evaluation as anticancer agents".NIH/NCI Biomedical Symposium, NIH/NCI, Bethesda, MD. (July 10, 2011)

Debasish Bandyopadhyay."Ultrasound-assisted Aza-Michael reaction in water: A unique observation".241st ACS National Meeting, American Chemical Society, Anaheim, CA. (March 30, 2011)

Debasish Bandyopadhyay."Ultrasound-assisted, bismuth nitrate-catalyzed expeditious synthesis and biological evaluation of N-substituted pyrrole derivatives".241st ACS National Meeting, American Chemical Society, Anaheim, CA. (March 29, 2011)

Debasish Bandyopadhyay."Synthesis and biological evaluation of new polyaromatic anticancer agents".241st ACS National Meeting, American Chemical Society, Anaheim, CA. (March 28, 2011)

Debasish Bandyopadhyay."Diastereoselectivity of β -lactam formation with polyaromatic imines: Synthesis of novel anticancer agents".240th ACS National Meeting, American Chemical Society, Boston, MA. (August 23, 2010)

Debasish Bandyopadhyay."Phosphoric acid-catalyzed Michael reaction of indoles".239th ACS National Meeting, American Chemical Society, San Francisco, CA. (March 24, 2010)

Debasish Bandyopadhyay."Iodine-catalyzed asymmetric synthesis of pyrrole-substituted β -lactams".239th ACS National Meeting, American Chemical Society, San Francisco, CA. (March 23, 2010)

Debasish Bandyopadhyay."Green Chemistry: Indium-Promoted Practical Method for the Synthesis of Quinoxalines".238th ACS National Meeting, American Chemical Society, Washington, DC. (August 19, 2009)

- Debasish Bandyopadhyay."Microwave-Induced Stereocontrol of beta-Lactam Formation with Dihydrophenanthrenyl Imine Via Staudinger Reaction".238th ACS National Meeting, American Chemical Society, Washington, DC. (August 19, 2009)
- Debasish Bandyopadhyay."Synthesis of Phthalimido beta-Lactams Via the Staudinger Reaction Using Polyaromatic Imines".238th ACS National Meeting, American Chemical Society, Washington, DC. (August 19, 2009)
- Debasish Bandyopadhyay."Microwave-Induced Aza-Michael Reaction in Water: Remarkable Simple and Environmentally Benign Procedure".238th ACS National Meeting, American Chemical Society, Washington, DC. (August 18, 2009)
- Debasish Bandyopadhyay."Microwave-Induced Ruthenium Trichloride-Catalyzed Synthesis of Pyrrole Fused with Indole System in Water".238th ACS National Meeting, American Chemical Society, Washington, DC. (August 18, 2009)
- Debasish Bandyopadhyay."Synthesis of 3-Amino beta-Lactams Derived From Polyaromatic Compounds".238th ACS National Meeting, American Chemical Society, Washington, DC. (August 18, 2009)
- Debasish Bandyopadhyay."Bismuth Salts-Catalyzed Easy and Highly Efficient Route to the Synthesis of Amino Phosphonates".238th ACS National Meeting, American Chemical Society, Washington, DC. (August 17, 2009)
- Debasish Bandyopadhyay."Bismuth Salts-Induced Alkylation of Active Methylene Compounds with Benzylic Alcohols: A Remarkable Simple and Efficient Procedure".238th ACS National Meeting, American Chemical Society, Washington, DC. (August 17, 2009)
- Debasish Bandyopadhyay."Microwave-Assisted Indium-Catalyzed Synthesis of Pyrrole Fused with Indole System: An Eco-friendly Approach".238th ACS National Meeting, American Chemical Society, Washington, DC. (August 17, 2009)
- Debasish Bandyopadhyay."Bismuth Nitrate-Induced Expeditious Synthesis of Quinoxalines".Tetrahedron Annual International Symposium, Elsevier, Paris, France. (June 17, 2009)
- Debasish Bandyopadhyay."Microwave-induced Bismuth Nitrate-Catalyzed Novel Synthesis of Pyrroles".Tetrahedron Annual International Symposium, Elsevier, Paris, France. (June 17, 2009)
- Debasish Bandyopadhyay."Bismuth Nitrate-Induced Straightforward Synthesis of Quinoxalines".National Organic Chemistry Symposium, American Chemical Society, Boulder, CO. (June 06, 2009)
- Debasish Bandyopadhyay."Indium-Induced Synthesis of Pyrrole Substituted Indolinones".National Organic Chemistry Symposium, American Chemical Society, Boulder, CO. (June 06, 2009)
- Debasish Bandyopadhyay."Synthesis of Vinyl beta-Lactams With Polycyclic Aromatic Imines".237th ACS National Meeting, American Chemical Society, Salt Lake City, UT. (March 25, 2009)
- Debasish Bandyopadhyay."Microwave-Assisted Bismuth Nitrate-Catalyzed Novel Synthesis of Pyrroles".237th ACS National Meeting, American Chemical Society, Salt Lake City, UT. (March 24, 2009)
- Debasish Bandyopadhyay."Bismuth Nitrate-Catalyzed Straightforward Synthesis of Quinoxalines".237th ACS National Meeting, American Chemical Society, Salt Lake City, UT. (March 23, 2009)
- Debasish Bandyopadhyay."Bismuth Nitrate-Catalyzed Synthesis of Indoles and Azaindoles With Activated Compounds".Annual NIH Biomedical Conference, NIH/NCI, Orlando, FL. (November 10, 2008)
- Debasish Bandyopadhyay."Bismuth nitrate-catalyzed expeditious Synthesis of bis-indoles under solventless conditions".236th ACS National Meeting, American Chemical Society, Philadelphia, PA. (August 19, 2008)
- Debasish Bandyopadhyay."Microwave-induced synthesis of disubstituted imidazoles".236th ACS National Meeting, American Chemical Society, Philadelphia, PA. (August 19, 2008)
- Debasish Bandyopadhyay."Bismuth nitrate-catalyzed expeditious Synthesis of bis aza-indoles under solventless conditions".236th ACS National Meeting, American Chemical Society, Philadelphia, PA. (August 18, 2008)
- Debasish Bandyopadhyay."Bismuth nitrate-catalyzed Michael reaction in water and organic solvents".235th ACS National Meeting, American Chemical Society, New Orleans, LA. (April 08, 2008)
- Debasish Bandyopadhyay."Stereocontrolled synthesis toward novel bis beta-lactams".235th ACS National Meeting, American Chemical Society, New Orleans, LA. (April 07, 2008)
- Debasish Bandyopadhyay."Single Electron Transfer Reaction — A New Entry to the Synthesis of Nitrogen Macrocycles".5th National Seminar on Antidiabetic Plant Materials, Asian Network of Research on Antidiabetic Plants (ANRAP), Dhaka, Bangladesh. (June 05, 2006)
- Debasish Bandyopadhyay."Single Electron Transfer Approach for the Synthesis of Diindolylalkanes (DIMs) and Arylindolylmethanes (AIMs)".10th International Symposium on Natural Product Chemistry, International Center of Chemical & Biological Sciences, Karachi, Pakistan. (January 08, 2006)
- Debasish Bandyopadhyay."Investigation of Some Indian Medicinal Plants for Antidiabetic Activity".Second International Seminar on Plant Materials as a source of Antidiabetic Agents, Asian Network of Research on Antidiabetic Plants (ANRAP), Dhaka, Bangladesh. (December 08, 1997)

Teaching Experience

CHEM 1101, General Chemistry Lab I, 2 Course(s)
 CHEM 1102, General Chemistry Lab II, 1 Course(s)
 CHEM 1111, General Chemistry I Lab, 2 Course(s)
 CHEM 2102, Organic Chemistry Lab I, 17 Course(s)
 CHEM 2103, Organic Chemistry Lab II, 4 Course(s)
 CHEM 2123, Organic Chemistry I Lab, 33 Course(s)
 CHEM 2125, Organic Chemistry II Lab, 4 Course(s)
 CHEM 2302, Organic Chemistry I, 1 Course(s)
 CHEM 2303, Organic Chemistry II, 6 Course(s)
 CHEM 2323, Organic Chemistry I, 20 Course(s)
 CHEM 2325, Organic Chemistry II, 13 Course(s)
 CHEM 4201, Chemistry Problems I, 2 Course(s)
 CHEM 4316, Medicinal Chemistry, 9 Course(s)
 CHEM 4378, Sp TopChem-Medicinal Chemistry, 1 Course(s)
 CHEM 4378, SpTopics in Chem:Med Chemistry, 3 Course(s)
 CHEM 4378, Special Topics in Chemistry, 3 Course(s)
 CHEM 6330, ST:Organic-Medicinal Chemistry, 3 Course(s)
 CHEM 6330, SpTop in OrgChem:Med Chemistry, 2 Course(s)
 CHEM 6332, Medicinal Chemistry, 6 Course(s)
 CHEM 6335, Medicinal Food Chemistry, 4 Course(s)
 CHEM 7300, Thesis I, 8 Course(s)
 CHEM 7301, Thesis II, 8 Course(s)
 SAFS 4306, Medicinal Food Chemistry, 4 Course(s)
 UNIV 3000, Internship, 1 Course(s)
 UNIV 4000, Directed Research, 12 Course(s)
 UNIV 6100, Comp Exam Ext, 3 Course(s)

Directed Student Learning

Graduate Supervised Research,Precious Okwuchukwu. (January 14, 2019)
 Graduate Supervised Research,Zafira Castillo. (January 14, 2019)
 Graduate Supervised Research,Fernando Castillo. Department of Chemistry. (August 28, 2018)
 Graduate Supervised Research,Jorge Flores. Department of Chemistry. (August 28, 2018)
 Graduate Supervised Research,Orlando Castillo. Department of Chemistry. (August 28, 2018)
 Undergraduate Directed Individual/Independent Study,Aaron Lumbreras. Department of Chemistry. (August 28, 2018)
 Undergraduate Directed Individual/Independent Study,Sofia Hinojosa. Department of Biology. (August 28, 2018)
 Undergraduate Directed Individual/Independent Study,Sonia Wadekar. Department of Biology. (August 28, 2018)
 Undergraduate Directed Individual/Independent Study,Steven Sargent. Department of Chemistry. (August 28, 2018)
 Undergraduate Directed Individual/Independent Study,Valeria Garcia. Department of Biology. (August 28, 2018)
 Undergraduate Directed Individual/Independent Study,Juan Escamilla. Department of Chemistry. (August 15, 2018)
 Undergraduate Directed Individual/Independent Study,Christian Pena. Department of Chemistry. (May 15, 2018)
 Undergraduate Directed Individual/Independent Study,Cristian Rosales. Department of Biology. (May 15, 2018)
 Undergraduate Directed Individual/Independent Study,Monique Chavez. Department of Biology. (May 15, 2018)
 Undergraduate Directed Individual/Independent Study,Sarah Paz. Department of Chemistry. (May 15, 2018)
 Undergraduate Directed Individual/Independent Study,Jonathan Rock. Department of Biology. (June 15, 2017)
 Undergraduate Directed Individual/Independent Study,Olivia Segura. Department of Biology. (August 28, 2018 - May 16, 2019)

Undergraduate Directed Individual/Independent Study,Jocelyn Garcia. Department of Biology. (August 27, 2018 - December 15, 2018)

Undergraduate Directed Individual/Independent Study,Salma Cantu. (August 27, 2018 - December 15, 2018)

Undergraduate Directed Individual/Independent Study,Valeria Stevens. Department of Chemistry. (July 15, 2018 - December 15, 2018)

Undergraduate Capstone/Senior Project,Zafira Castillo. Department of Chemistry. (June 15, 2018 - December 15, 2018)

Undergraduate Directed Individual/Independent Study,Jacobo Strong. Department of Chemistry. (June 15, 2018 - December 15, 2018)

Undergraduate Capstone/Senior Project,Felipe Gonzalez. Department of Chemistry. (January 20, 2018 - December 15, 2018)

Undergraduate Capstone/Senior Project,Kithzia Gomez. Department of Chemistry. (January 15, 2018 - December 15, 2018)

Undergraduate Capstone/Senior Project,Leanna Salinas. Department of Chemistry. (January 15, 2018 - December 15, 2018)

Undergraduate Capstone/Senior Project,Sam Pena. Department of Chemistry. (January 15, 2018 - December 15, 2018)

Undergraduate Capstone/Senior Project,Rachel Elizondo. Department of Chemistry. (January 14, 2018 - December 15, 2018)

Undergraduate Directed Individual/Independent Study,Steven Sargent. Department of Chemistry. (July 15, 2018 - August 27, 2018)

Undergraduate Directed Individual/Independent Study,Dung Le. Department of Chemistry. (July 15, 2018 - August 18, 2018)

Undergraduate Directed Individual/Independent Study,Jorge Flores. Department of Chemistry. (January 15, 2018 - May 30, 2018)

Undergraduate Capstone/Senior Project,Zafira Castillo. Department of Chemistry. (September 15, 2017 - May 30, 2018)

Undergraduate Directed Individual/Independent Study,Martina Basquez. Department of Chemistry. (September 15, 2017 - May 30, 2018)

Undergraduate Directed Individual/Independent Study,Bina Yarlagadda. Department of Chemistry. (January 20, 2018 - May 15, 2018)

Undergraduate Directed Individual/Independent Study,Bo Garza. Department of Chemistry. (January 20, 2018 - May 15, 2018)

Undergraduate Directed Individual/Independent Study,Daniel Villicana. Department of Chemistry. (July 20, 2017 - December 15, 2017)

Undergraduate Supervised Research,Daisy Gonzalez. Department of Chemistry. (May 30, 2017 - December 15, 2017)

Undergraduate Capstone/Senior Project,Hunain Rana. Department of Chemistry. (January 20, 2017 - December 15, 2017)

Undergraduate Capstone/Senior Project,Jia Feliz Tolentino. Department of Chemistry. (January 20, 2017 - December 15, 2017)

Undergraduate Capstone/Senior Project,Mohammad Umair. Department of Chemistry. (January 20, 2017 - December 15, 2017)

Undergraduate Capstone/Senior Project,Alondra Echeverria. Department of Chemistry. (September 15, 2016 - December 15, 2017)

Undergraduate Supervised Research,Jacobo Strong. Department of Chemistry. (May 15, 2017 - November 30, 2017)

Undergraduate Capstone/Senior Project,Leanna Salinas. Department of Chemistry. (January 15, 2017 - November 30, 2017)

Undergraduate Directed Individual/Independent Study,Maria Lourdes Bernadette Vigilar. Department of Chemistry. (January 15, 2017 - November 30, 2017)

Undergraduate Supervised Research,Bo Garza. Department of Chemistry. (January 15, 2017 - September 30, 2017)

Undergraduate Supervised Research,Bo Garza. Isolation of 2- α -hydroxydihydroparthenolide from Magnolia grandiflora green seed cones, Department of Chemistry. (January 03, 2017 - August 18, 2017)

Service Learning Project,Jonathan Rock. Synthesis of Anticancer Beta-Lactams., Chemistry (UTPA). (April 30, 2014 - May 31, 2017)

Undergraduate Directed Individual/Independent Study,Harshil Patel. Department of Chemistry. (January 20, 2017 - May 15, 2017)

Undergraduate Capstone/Senior Project,Rachel Elizondo. Department of Chemistry. (September 15, 2016 - May 15, 2017)

Undergraduate Directed Individual/Independent Study,Jay Patel. Department of Chemistry. (August 20, 2016 - December 15, 2016)

Undergraduate Supervised Research,Maria Lourdes Bernadette Vigilar. Green synthesis of dicoumarol, Department of Chemistry. (July 15, 2016 - November 30, 2016)

Undergraduate Supervised Research,Adriana Rodriguez. Polycyclic fused carboxylic acid from Quercus virginiana galls, Department of Chemistry. (June 15, 2016 - November 30, 2016)

Undergraduate Supervised Research,Bo Garza. Chemical investigation of Magnolia grandiflora green seed cones, Department of Chemistry. (June 15, 2016 - November 30, 2016)

Undergraduate Supervised Research,Daniel Villicana. Chemical investigation of Persea americana (Avocado) husk, Department of Chemistry. (June 15, 2016 - November 30, 2016)

Undergraduate Supervised Research,Juan Rodriguez. Isolation of tetracyclic acid from Quercus virginiana, Department of Chemistry. (June 15, 2016 - November 30, 2016)

Undergraduate Supervised Research,Alondra Echeverria. Chemical investigation of Magnolia grandiflora green seed cones, Department of Chemistry. (June 01, 2016 - November 30, 2016)

Undergraduate Supervised Research,Jocelyn Garcia. Chemical Investigation of Oak tree galls, Department of Chemistry. (May 30, 2016 - November 30, 2016)

Undergraduate Supervised Research,Orlando Castillo. Chemical investigation of Persea americana (Avocado) husk, Department of Chemistry. (May 30, 2016 - November 30, 2016)

Undergraduate Supervised Research,Jacobo Strong. Domino amidation-condensation approach: A parallel green route to 4-thiazolidinones, Department of Chemistry. (May 15, 2016 - November 30, 2016)

Service Learning Project,Omar Espino. Synthesis of Anticancer Beta-Lactams., Chemistry (UTPA). (June 01, 2014 - August 31, 2016)

Graduate Supervised Research,Fabian Olazarán. Design, synthesis and biological evaluation in vitro and in vivo of new derivatives of azetid-2-one functionalized with antibodies, with potential anticancer activity, (January 30, 2014 - August 31, 2016)

Undergraduate Supervised Research,Sandra Huerta. Four-component "on water" protocol en route to pyranopyrazoles, Department of Chemistry. (May 30, 2015 - December 05, 2015)

Service Learning Project,Aaron Garza. Synthesis of Anticancer Beta-Lactams., Chemistry (UTPA). (June 01, 2015 - August 31, 2015)

Service Learning Project,Alejandro Pardo. Synthesis of Anticancer Beta-Lactams., Chemistry (UTPA). (June 01, 2015 - August 31, 2015)

Service Learning Project,Alex Velasco. Synthesis of Anticancer Beta-Lactams., Chemistry (UTPA). (June 01, 2015 - August 31, 2015)

Service Learning Project,Annadhamoni Halder. Synthesis of Anticancer Beta-Lactams., Chemistry (UTPA). (June 01, 2015 - August 31, 2015)

Service Learning Project,Chelsea Gibbs. Synthesis of Anticancer Beta-Lactams., Chemistry (UTPA). (June 01, 2015 - August 31, 2015)

Service Learning Project,Fernando Padilla . Synthesis of Anticancer Beta-Lactams., Chemistry (UTPA). (June 01, 2015 - August 31, 2015)

Service Learning Project,Iliana Chapa. Synthesis of Anticancer Beta-Lactams., Chemistry (UTPA). (June 01, 2015 - August 31, 2015)

Service Learning Project,Jessica Cruz . Synthesis of Anticancer Beta-Lactams., Chemistry (UTPA). (June 01, 2015 - August 31, 2015)

Service Learning Project,Jessica Galindo. Synthesis of Anticancer Beta-Lactams., Chemistry (UTPA). (June 01, 2015 - August 31, 2015)

Service Learning Project,Jose Salinas. Synthesis of Anticancer Beta-Lactams., Chemistry (UTPA). (June 01, 2015 - August 31, 2015)

Service Learning Project,Mayra Subedar. Synthesis of Anticancer Beta-Lactams., Chemistry (UTPA). (June 01, 2015 - August 31, 2015)

Service Learning Project,Melissa Tupper . Synthesis of Anticancer Beta-Lactams., Chemistry (UTPA). (June 01, 2015 - August 31, 2015)

Service Learning Project,Rajesh Nandipaty . Synthesis of Anticancer Beta-Lactams., Chemistry (UTPA). (June 01, 2015 - August 31, 2015)

Service Learning Project,Sandra Huerta. Synthesis of Anticancer Beta-Lactams., Chemistry (UTPA). (June 01, 2015 - August 31, 2015)

Service Learning Project,Daniel Garcia. Synthesis of Anticancer Beta-Lactams., Chemistry (UTPA). (September 01, 2014 - December 31, 2014)

Undergraduate Supervised Research,Mark Pena-Agudelo. Organocatalyzed green synthesis of pyranopyrazoles, Chemistry (UTPA). (May 30, 2014 - December 05, 2014)

Undergraduate Supervised Research,Hannah Cardenas. Organocatalyzed green synthesis of bis-quinoxalines: an entry to novel heteroaromatics, Chemistry (UTPA). (April 30, 2014 - December 05, 2014)

Service

Department Service

Committee Member, MS in SAFS Committee (February 04, 2019)

Committee Member, Curriculum Committee (October 04, 2018)

Committee Member, Department Academic Advisors (October 04, 2018)

Committee Member, Graduate Program Committee (October 04, 2018)

Committee Member, Scholarship (+ student award) Committee (October 04, 2018)

Committee Member, Sustainable agriculture and food systems (SEEMS) (September 27, 2018)

Committee Member, American Chemical Society Student Chapter (ECS) (August 19, 2017)

Committee Member, Teaching Lab Committee (August 19, 2017)

Committee Member, Instrumentation (maintenance + requisition) (September 01, 2010)

Committee Member, Safety (September 01, 2010)

Other, (May 09, 2019)

Other, (April 24, 2019)

Committee Member, Materials Chemist Search Committee (October 16, 2018 - March 26, 2019)

Student Placement, (August 12, 2016 - September 16, 2017)

College Service

Committee Member, COS Advisory Council (September 01, 2017)

Faculty Mentor, (August 04, 2019)

Faculty Mentor, (July 17, 2019)

University Service

Special Institutional Assignment, Engage Scholar Award (July 23, 2019)

Special Institutional Assignment, Engage Scholar Award (March 12, 2019)

Special Institutional Assignment, AUTM (February 10, 2019 - February 13, 2019)

Special Institutional Assignment, Engaged Scholarship Award (January 15, 2018 - December 15, 2018)

Development Activities Attended

- Continuing Education Program, "Sustainability Faculty Development: Outcomes of UN Decade of Education for Sustainable Development", Center for Teaching Excellence (October 04, 2018)

- Workshop, "NSF funded Faculty development workshop in community engagement and culturally relevant pedagogy ", The University of Texas Rio Grande Valley (February 01, 2019 - May 24, 2019)

- Webinar, "UTRGV Sustainable Faculty Development", The University of Texas Rio Grande Valley (September 19, 2018 - April 03, 2019)

- Workshop, "AUTM 2019", UT Systems (February 10, 2019 - February 13, 2019)

- Continuing Education Program, "Creating a Learner-Centered Syllabus", (December 13, 2018 - December 13, 2018)

- Webinar, "Sustainability Faculty Development: Intermediate Webinar Series (Webinar #4)", Center for Teaching Excellence (November 14, 2018 - November 14, 2018)

- Webinar, "Sustainability Faculty Development: Introductory Webinar Series (Webinar #4)", Center for Teaching Excellence (November 08, 2018 - November 08, 2018)
- Webinar, "Sustainability Faculty Development: Intermediate Webinar Series (Webinar #3)", Center for Teaching Excellence (October 31, 2018 - October 31, 2018)
- Workshop, "Face to Face and Online Accessibility for Science Labs", Center for Teaching Excellence (October 26, 2018 - October 26, 2018)
- Webinar, "Sustainability Faculty Development: Introductory Webinar Series (Webinar #3)", Center for Teaching Excellence (October 25, 2018 - October 25, 2018)
- Webinar, "Sustainability Faculty Development: Business Webinar #3", Center for Teaching Excellence (October 22, 2018 - October 22, 2018)
- Workshop, "NFSP Workshop I: Enhancing Your Teaching Effectiveness", (October 19, 2018 - October 19, 2018)
- Workshop, "Improving Communication in the Online Teaching Environment- A Practical Approach", Center for Teaching Excellence (October 17, 2018 - October 17, 2018)
- Continuing Education Program, "Dynamic Lecturing: Reflection and Retrieval Practice", Center for Teaching Excellence (October 16, 2018 - October 16, 2018)
- Workshop, "ITV Session II (Online teaching)", (October 12, 2018 - October 12, 2018)
- Continuing Education Program, "New Faculty Support Program Session II: Building a Mentoring Network", (October 11, 2018 - October 11, 2018)
- Workshop, "The Future of ITV at UTRGV", Information Technology-UTRGV (September 27, 2018 - September 27, 2018)
- Continuing Education Program, "Sustainability Faculty Development: The Sustainability Mindset", Center for Teaching Excellence (September 19, 2018 - September 19, 2018)
- Workshop, "NFSP Session I: Supporting Faculty & Student Success (Resource Fair)", Office of the Sr. Associate VP for Faculty Affairs & Diversity (September 11, 2018 - September 11, 2018)
- NEW FACULTY ORIENTATION, "NEW FACULTY ORIENTATION", Human Resources (August 16, 2018 - August 17, 2018)
- Continuing Education Program, "Learning Circle: Dynamic Lecturing-Types of Lectures & Activating Prior Knowledge", Center for Teaching Excellence (June 04, 2018 - June 04, 2018)
- Continuing Education Program, "Learner-Centered Syllabus & First Day of Class Engaging Activities", Center for Teaching Excellence (May 30, 2018 - May 30, 2018)

Professional Service

- Editorial Review Board Member, Mini-Reviews in Organic Chemistry (an international journal by Bentham Science Publishers). . (June 15, 2016)
- Editorial Review Board Member, HOAJ-Biology, published by Herbert Publications, UK (an international journal of chemical biology and biological chemistry). . (July 11, 2015)
- Editorial Review Board Member, Interactive Medicinal Chemistry, published by Herbert Publications, UK (an international journal of medicinal chemistry). . (May 09, 2015)
- Editor, Associate Editor, World Research Journal of Medical Science (an international journal of medicinal chemistry and biomedical science, Bioinfo Journals ranked 8th in IndexCopernicus top 20 publishers). . (October 02, 2013)
- Editorial Review Board Member, Current Microwave Chemistry (an international journal by Bentham Science Publishers).. (April 15, 2012)
- Editorial Review Board Member, Current Organocatalysis (an international journal by Bentham Science Publishers).. (April 15, 2012)
- Editorial Review Board Member, Heterocyclic Letters (an international journal of heterocycles). . (March 11, 2010)
- Guest Speaker, (September 09, 2019)
- Reviewer, Book, (August 04, 2019)
- Reviewer, Journal Article, (September 01, 2018 - January 08, 2019)
- Reviewer, Journal Article, (September 01, 2017 - August 31, 2018)
- Session Chair, 256th ACS National Meeting. Boston, MA, (August 20, 2018 - August 20, 2018)
- Session Chair, 255th ACS National Meeting. New Orleans, LA, (March 18, 2018 - March 18, 2018)
- Editor, Associate Editor, Frontiers in Chemistry: Medicinal and Pharmaceutical Chemistry. (January 15, 2014 - December 31, 2017)
- Reviewer, Journal Article, (September 01, 2016 - September 12, 2017)

Session Chair, 254th ACS National Meeting. Washington, DC, (August 20, 2017 - August 20, 2017)

Session Chair, 253rd ACS National Meeting. San Francisco, CA, (April 03, 2017 - April 03, 2017)

Session Chair, 251st ACS National Meeting. San Diego, CA, (March 13, 2016 - March 13, 2016)

Session Chair, 250th ACS National Meeting. Boston, MA, (August 17, 2015 - August 17, 2015)

Session Chair, 249th ACS National Meeting. Denver, CO, (March 23, 2015 - March 23, 2015)

Session Chair, 247th ACS National Meeting. Dallas, TX, (March 16, 2014 - March 16, 2014)

Professional Memberships

Asian Council of Science Editors , (ACSE) (October 15, 2015)

The Royal Society of Chemistry (England), (RSC) (March 11, 2012)

American Association of University Professors , (AAUP) (September 01, 2011)

American Chemical Society, (ACS) (August 02, 2009)

Indian Science Congress Association , (ISCA) (January 02, 1997)

Indian Chemical Society , (ICS) (April 04, 1996)

Indian Association for the Cultivation of Science , (IACS) (January 02, 1996)

Public Service

Chairperson, The National Society of Collegiate Scholars. (September 01, 2018)

Member, The National Society of Collegiate Scholars. (September 01, 2015)