

Debasish Bandyopadhyay, MSc, PhD, MRSC

Assistant Professor
Department of Chemistry (ESCNE 3.492)
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(E-mail is Preferred)

Prepared on September 11, 2019

Objective

Contribute to research and teaching in **Chemistry** and make a visible difference to the quality of human life associated with Food, Nutrition, and Medicine. Specific areas of interest include **Food Chemistry, Natural Product Chemistry, Organic/Medicinal Chemistry, and Green chemistry.**

Specific Aims

- To develop **outstanding students** for the advancement of the society.
- To identify new and novel **nutritious food** sources
- To develop **effective drugs** for the benefit of mankind.

Highlights

Academic qualification: M. Sc. (1st Class), B. Ed. (1st Class), Ph. D.

Teaching experience in the United States: **9+** years

Publications in internationally peer-reviewed journals: **74** (another **5** are in pipeline).

Publications in internationally peer-reviewed journals as corresponding author: **16** (another **5** are in pipeline)

Plenary/Keynote/Invited (International) Lectures: **7**

International/National presentations: **93**

State/Regional/Local presentations: **93**

Book Chapters: **6**

Book (Edited): **1**

Press Releases: **3** [Covered by more than 240 news agencies worldwide]

External Grant Awarded: **US \$417,329.00** [Role: Principal Investigator]

Internal Competitive Research Grants Awarded as PI: **US \$9,100.00**

American Chemical Society DOC Travel Award: **US \$1,200.00** [Fall 2012 & Fall 2017]

Editorial Board Member: **7** International Journals.

Associate Editor: **1** International Journals

Reviewer: **46** International Journals

Teaching Evaluation

Average teaching evaluation (excellent/good) since Fall 2010 to Summer II, 2019 is as follows:

Overall: 97.15% Excellent/Good (Lecture: 95.37%; Lab: 96.60%; Research: 99.50%)

Research Foci

- (1) Identification of new and novel nutritious food sources and chemical analysis of fruits, vegetables, and food waste.
- (2) Extraction, purification, structure elucidation and chemical modification of medicinally and/or industrially privileged chemicals from plant/marine sources, targeted to pharmacologically active molecules.
- (3) Development of greener methodologies aiming to the synthesis of novel pharmacophores.
- (4) Design, *in silico* validation and synthesis of novel anticancer polyaromatic and β -lactam compounds.

Organizing/Presiding of International Meeting/Sessions

American Chemical Society (ACS) National Meetings' Session Presider: 9

Presided the session entitled "*Biologically Related Molecules & Processes*" (Division: ORGN, Section C, PM session) at the 258th **American Chemical Society (ACS) National Meeting**, San Diego, CA on August 27, 2019.

Presided the session entitled "*Biologically Related Molecules & Processes*" (Division: ORGN, Section C, AM session) at the 256th **American Chemical Society (ACS) National Meeting**, Boston, MA on August 20, 2018.

Presided the session entitled "*Biologically Related Molecules & Processes*" (Division: ORGN, Section C, PM session) at the 255th **American Chemical Society (ACS) National Meeting**, New Orleans, LA on March 18, 2018.

Presided the session entitled "*Biologically Related Molecules & Processes*" (Division: ORGN, Section C, PM session) at the 254th **American Chemical Society (ACS) National Meeting**, Washington, DC on August 20, 2017.

Presided the session entitled "*Biologically-Related Molecules & Processes*" (Division: ORGN, Section C, AM session) at the 253rd **American Chemical Society (ACS) National Meeting**, San Francisco, California on April 03, 2017.

Presided the session entitled "*Asymmetric Reactions and Syntheses*" (Division: ORGN, Section E, AM session) at the 251st **American Chemical Society (ACS) National Meeting**, San Diego, California on March 13, 2016.

Presided the session entitled "*New Reactions and Methodology*" (Division: ORGN, Section E, AM session) at the 250th **American Chemical Society (ACS) National Meeting**, Boston, Massachusetts on August 17, 2015.

Presided the session entitled "*New Reactions and Methodology*" (Division: ORGN, Section C, PM session) at the 249th **American Chemical Society (ACS) National Meeting**, Denver, Colorado on March 23, 2015.

Presided the session entitled "*Asymmetric Reactions and Syntheses*" (Division: ORGN, Section E, AM session) at the 247th **American Chemical Society (ACS) National Meeting**, Dallas, Texas on March 16, 2014.

Accomplishments and Most Significant Contributions

❖ Associate Editor of **an** International Journals

- 1) **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). Please follow the link <http://www.bioinfopublication.org/journal.php?opt=azjou&jouid=BPJ0000113&detail=editorial>

❖ Editorial Board Member of **SEVEN** internationally reputed journals and Associate Editor of **ONE** journal of international repute. These are as follow:

- 1) **Editorial Board Member:** *Current Microwave Chemistry* (an international journal by Bentham Science Publishers). Please follow the link <http://benthamscience.com/cmhc/EBM.htm>

- 2) **Editorial Board Member:** *Current Organocatalysis* (an international journal by Bentham Science Publishers). Please follow the link <http://benthamscience.com/cocat/EBM.htm>
 - 3) **Editorial Board Member:** *Mini-Reviews in Organic Chemistry* (an international journal by Bentham Science Publishers). Please follow the link <http://benthamscience.com/journals/mini-reviews-in-organic-chemistry/editorial-board/#top>
 - 4) **Editorial Board Member:** *Applied Scientific Reports*, published by Herbert Publications, UK (an international journal of applied Physical and Biological sciences, Mathematics, Engineering and Environmental sciences). Please follow the link <http://www.hoajonline.com/applsci/ep/editorialboard>
 - 5) **Editorial Board Member:** *Interactive Medicinal Chemistry*, published by Herbert Publications, UK (an international journal of medicinal chemistry). Please follow the link <http://www.hoajonline.com/medchem/editorialboard>
 - 6) **Editorial Board Member:** *HOAJ-Biology*, published by Herbert Publications, UK (an international journal of chemical biology and biological chemistry). Please follow the link <http://www.hoajonline.com/hoajbiology/editorialboard>
 - 7) **Editorial Board Member:** *Heterocyclic Letters* (an international journal of heterocycles). Please follow the link <http://heteroletters.org/editorial.html>
- ❖ Reviewer of **Twenty-four** international Journals.
 - ❖ **First report of the novel formation of 2:1 cycloadducts in 1,3-dipolar cycloaddition reactions.** *Tetrahedron Letters* (2005), 46 (15), 2619-2622.
 - ❖ **Introduction of a new route to the synthesis of indolo[2,3-a]carbazoles.** *Chemistry Letters* (2005), 34 (11), 1500-1501.
 - ❖ **First report of silicon compound as a spray reagent for the detection of amino acids.** *Journal of Planar Chromatography* (2005), 18 (103), 251-252.
 - ❖ **First report of unusual flipping of 1,3-dipolar cycloadducts.** *Tetrahedron Letters* (2006), 47(23), 3827-3830.
 - ❖ **First report of novel N-polyaromatic β -lactams bearing pyrroles.** *Molecules*, (2010), 15, 1082-1088. **(This paper ranked 4th from the same field among 10 top-cited papers in the world in 2010).**
 - ❖ **First report of polyaromatic ether as anticancer agent.** *Oncology Letters* (2012), 3 (1), 45-49 **(This paper was highlighted as Front Cover featured article).**

Tabular Summary: **Average: 97.15% Excellent/Good (Lecture: 95.37%; Lab: 96.60%; Research: 99.50%)**

Semester	Course	Excellent (%)	Good (%)	Average (%)	Fair (%)	Poor (%)
Summer II	CHEM 2325-01	85.00	12.00	03	00	00
Summer II	UNIV 4000-01	93.00	07.00	00	00	00
Summer I	UNIV 4000-01	98.00	02.00	00	00	00
Summer I 2019	CHEM 2123-02	78.00	21.00	00	01	00
Summer I 2019	CHEM 2123-01	96.00	4.00	00	00	00

Debasish Bandyopadhyay: Curriculum Vitae

Spring 2019	UNIV 4000-03	98.00	3.00	00	00	00
Spring 2019	CHEM 6330-03I	98.00	2.00	00	00	00
Spring 2019	CHEM 4378-03I	84.00	13.00	03	00	00
Spring 2019	CHEM 4378-04I	90.00	00	10.00	00	00
Spring 2019	CHEM 2325-02	83.00	12.00	05	00	00
Fall 2018	CHEM 2323-06	92.00	7.00	1.00	00	00
Fall 2018	CHEM 2123-09	96.00	3.00	1.00	00	00
Fall 2018	CHEM 2123-13	75.00	19.00	5.00	1.00	00
Fall 2018	UNIV 4000-13	91.00	5.00	04	00	00
Summer II 2018	UNIV 4000-11	100.00	00	00	00	00
Summer I 2018	UNIV 4000-02	88.00	13.00	00	00	00
Summer I 2018	CHEM 1111-08	90.00	4.00	1.00	3.00	1.00
Summer I 2018	CHEM 1111-04	89.00	11.00	00	00	00
Spring 2018	UNIV 4000-03	100.00	00	00	00	00
Spring 2018	UNIV 3000-03	100.00	00	00	00	00
Spring 2018	CHEM 2323-05	86.00	12.00	02	00	00
Spring 2018	CHEM 4378-04I	88.00	8.00	04	01	00
Spring 2018	CHEM 2125-08	92.00	8.00	00	00	00
Spring 2018	CHEM 2123-06	80.00	16.00	04	00	00
Spring 2018	CHEM 2123-10	72.00	16.00	06	00	05
Fall 2017	CHEM 2325-03	84.00	12.00	03	01	01
Fall 2017	CHEM 2323-06	78.00	14.00	06	02	01
Fall 2017	CHEM 2123-09	94.00	5.00	00	2.00	00
Fall 2017	CHEM 2123-11	84.00	14.00	3.00	00	00
Fall 2017	CHEM 2123-12	73.00	8.00	16.00	1.00	2.00
Spring 2017	CHEM 2323-05	88.00	9.00	02	00	01
Spring 2017	CHEM 4378-04	85.00	9.00	03	03	00
Spring 2017	CHEM 2123-04	91.00	7.00	01	00	01
Spring 2017	CHEM 2123-06	86.00	14.00	00	00	00
Spring 2017	CHEM 2123-10	75.00	16.00	07	00	01
Fall 2016	CHEM 2323-06	88.00	8.00	03	00	00
Fall 2016	CHEM 2325-03	83.00	10.00	05	00	01
Fall 2016	CHEM 2123-23	91.00	3.00	07	00	00
Fall 2016	CHEM 2123-11	84.00	8.00	08	01	00
Spring 2016	CHEM 2325-05	82.00	14.00	04	00	00
Spring 2016	CHEM 4378-04	90.00	06.00	03	01	00
Spring 2016	CHEM 2323-03	79.00	13.00	07	01	00
Spring 2016	CHEM 2323-04	75.00	18.00	05	01	01
Fall 2015	CHEM 2323-06	84.00	9.00	05	00	03
Fall 2015	CHEM 2325-03	79.00	14.00	07	01	01

Summer II 2015	CHEM 2303-02	88.00	9.00	01	01	02
Spring 2015	CHEM 2303-04	80.00	16.00	02	00	02
Spring 2015	CHEM 2303-01	77.00	15.00	06	00	02
Fall 2014	CHEM 2303-02	76.00	23.00	01	00	00
Fall 2014	CHEM 2302-05	70.00	21.00	08	01	00
Spring 2014	CHEM 2303-04	90.00	10.00	00	00	00
Spring 2014	CHEM 4378-01	80.00	17.00	03	00	00
Fall 2013	CHEM 2102-09	92.00	8.00	00	00	00
Fall 2013	CHEM 2102-17	84.00	14.00	01	00	00
Fall 2013	CHEM 2102-18	93.00	7.00	00	00	00
Spring 2013	CHEM 2103-07	91.01	8.99	00	00	00
Spring 2013	CHEM 2103-08	82.92	17.08	00	00	00
Fall 2012	CHEM 2102-05	81.11	18.89	00	00	00
Fall 2012	CHEM 2103-08	65.57	21.77	7.85	4.56	0.25
Spring 2012	CHEM 2103-07	78.30	14.96	6.74	00	00
Spring 2012	CHEM 2103-08	94.07	5.19	0.74	00	00
Fall 2011	CHEM 2102-07	77.99	19.22	2.79	00	00
Fall 2011	CHEM 2102-08	90.88	9.12	00	00	00
Fall 2010	CHEM 2102-07	90.99	9.01	00	00	00
Fall 2010	CHEM 2102-08	92.37	7.63	00	00	00

New Course Development

1. **Medicinal Chemistry**. Course Code: CHEM 4316 [Lecture, 3 Credit hours].
2. **Medicinal Food Chemistry**. Course Code: SAFS 4306 [Lecture, 3 Credit hours].

Research Supervision (Summer 2014 to Summer II, 2019): 108 Students

Chemistry Problem Courses: 34
Biology Problem Courses: 04
UNIV 4000 Courses: 62
High Scholar Programs (Summer Research): 05
RGV Summer Science Internship: 03

Research Supervision of Biology Problem Students (Spring 2019) = 04

Year	Course BIOL-	Name of the Student	Title of the Project
Spring 2019	4201	Cristian Rosales	Investigation of Bioactive Compounds from the Medium-Polar Fraction Spanish Moss (<i>Tillandsia usneoides</i>)
Spring 2019	4201	Anthony Lopez	Investigation of Bioactive Compounds from the Medium-Polar Fraction Spanish Moss (<i>Tillandsia usneoides</i>)
Spring 2019	4201	Salma Cantu	Investigation of Bioactive Compounds from the Non-Polar Fraction of Camu Camu (<i>Myrciaria dubia</i>) leaf extracts.

Spring 2019	4201	Sonia Wadekar	Sonochemical Synthesis of Bioactive Azaheterocycles
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Research Supervision of Chemistry Problem Students (Summer 2014 to Spring 2019) = 34

Year	Course CHEM-	Name of the Student	Title of the Project
Spring 2019	4201	Aaron Lumbreras	Synthesis of Thioheterocycles
Spring 2019	4201	Steven Sargent	Phytochemical Properties of Avocado Seed Husks
2018-Fall	4201	Felipe Gonzalez	Phytochemical Investigation of <i>Magnolia grandiflora</i> Green Seed Cones: Analytical and Phytoceutical Studies
2018-Fall	4201	Rachel Elizondo	Catalyst/solvent/support/additive/promoter-free green synthesis of 5-methyl-thiazolidin-4-ones
2018-Fall	4201	Sam Pena	Chemical Investigation of Spanish Moss (<i>Tillandsia usneoides</i>)
2018-Fall	4202	Zafira Castillo	Chemical Investigation of Spanish Moss (<i>Tillandsia usneoides</i>)
2018-Fall	4202	Leanna Salinas	Tomato juice in its dual role as solvent and catalyst: green route toward bioactive pyrroles
2018-Fall	4201	Kithzia Gomez	Phytochemical Examination of Spanish Moss (<i>Tillandsia usneoides</i>)
2018-Spring	4201	Daisy Gonzalez	Chemical Investigation of Spanish Moss (<i>Tillandsia usneoides</i>)
2018-Spring	4201	Ryan Ninal	Microwave-activated three-component reaction of 4-methoxybenzaldehyde, 3-mercaptopropionic acid, and aniline
2017-Fall	4202	Orlando Castillo	Isolation and structure elucidation of cholesterol analog from avocado (<i>Persea americana</i>) testa
2017-Fall	4202	Jacobo Strong	One-pot concurrent synthesis of 4-thiazolidinones and benzothiazepinones: A greener route
2017-Fall	4202	Daniel Villicana	Chemical investigation of <i>Quercus virginiana</i>
2017-Fall	4202	Adriana Rodriguez	Chemical Investigation of southern Live Oak (<i>Quercus virginiana</i>) galls
2017-Fall	4201	Martina Basquez	One-pot, four-component synthesis of medicinally privileged pyranopyrazoles
2017-Fall	4201	Hunain Rana	Isolation of medicinally privileged compounds from <i>Magnolia grandiflora</i> green seed cones
2017-Fall	4201	Zafira Castillo	Chemical investigation of Spanish moss (<i>Tillandsia usneoides</i>)
2017-Fall	4201	Jia Feliz Tolentino	Chemical investigation of the alcoholic extracts in <i>Magnolia grandiflora</i> green seed cones
2017-Fall	4201	Muhammad Umair	<i>Magnolia grandiflora</i>

2017-Fall	4201	Leanna Salinas	Tomato juice in its dual role as solvent and catalyst: Green route toward bioactive pyrroles
2017-Fall	4201	Christian Pena	Tautomerization-Nucleophilic Addition-Elimination Cascade: Synthesis of 4-Aminocoumarin
2017-Summer	4202	Bo Garza	Chemical investigation of <i>Magnolia grandiflora</i> green seed cones
2016-Fall	4201	Adriana Rodriguez	Polycyclic fused carboxylic acid from <i>Quercus virginiana</i> galls
2016-Fall	4201	Alondra Echeverria	Chemical investigation of <i>Magnolia grandiflora</i> green seed cones
2016-Fall	4201	Bo Garza	Chemical investigation of <i>Magnolia grandiflora</i> green seed cones
2016-Fall	4201	Daniel Villicana	Chemical investigation of <i>Persea americana</i> (Avocado) husk
2016-Fall	4201	Jacobo Strong	Domino amidation-condensation approach: A parallel green route to 4-thiazolidinones
2016-Fall	4201	Jocelyn Garcia	Chemical Investigation of Oak tree galls
2016-Fall	4201	Juan Rodriguez	Isolation of tetracyclic acid from <i>Quercus virginiana</i>
2016-Fall	4201	Maria Lourdes Bernadette Vigilar	Green synthesis of dicoumarol
2016-Fall	4201	Orlando Castillo	Chemical investigation of <i>Persea americana</i> (Avocado) husk
2015-Fall	4201	Sandra Huerta	Four-component "on water" protocol en route to pyranopyrazoles
2014-Fall	4201	Mark Pena-Agudelo	Organocatalyzed green synthesis of pyranopyrazoles
2014-Summer	4201	Hannah R. Cardenas	Organocatalyzed green synthesis of bis-quinoxalines: an entry to novel heteroaromatics

Number of Undergraduate students who pursued **UNIV 4000** (Summer 2014 to Summer II, 2019) = **62** (Name and ID of these students can be provided, if required).

Research Supervision of Chemistry Problem students+ Non-Course paid students+ UNIV Courses (Summer 2014 to Summer II) = **34+04+62+05+03 = 108**

Significant Honors/Achievements/Recognitions

- ❖ College of Sciences High Scholars Program (Summer Research, 2019) Best Poster Award **3rd place** (Student: Frando Escamilla).
- ❖ Recognition as "**Outstanding Reviewer**" by Bentham Science Publishers in July, 2019.
- ❖ Delivered **Plenary lecture** in the Mid-season meeting of the World Avocado Organization was held at the Ritz Carlton Hotel in New Orleans (October 18, 2017). Title of the lecture: Treasures from Trash: Avocado Seed Husks as a Potential Source of Medicinal and Industrially Privileged Compounds.
- ❖ **American Chemical Society DOC Travel Award** for Faculty (Fall, 2017).

- ❖ Recognition as “**Outstanding Reviewer**” by Food Chemistry [An Elsevier Journal having Impact Factor: 5.399] in Spring 2018.
- ❖ Delivered **Inaugural (Plenary) lecture** in the 3rd National Symposium of Pharmaceutical Sciences and Biomedicine and 1st National Symposium of Applied Microbiology was held in Universidad Autónoma de Nuevo León, Mexico (September 01, 2016). Title of the lecture: Polycyclic Compounds as Anticancer Agents.
- ❖ Honored by the *National Society of Collegiate Scholars* for “**Scholarship, Leadership and Service**” in Fall 2015.
- ❖ The United States Permanent Residency (Green Card) was approved in **Outstanding Professor/Researcher (E17)** category under Sec. 203(b)(1)(B) of the I&N Act. (December, 2013). The petition was submitted to USCIS by the University of Texas-Pan American.
- ❖ **American Chemical Society DOC Travel Award** for Faculty (Fall, 2012).
- ❖ Second Best Post Graduate (PG) Poster Award in “Research Symposium-2012” from Department of Chemistry (Student: Ravi Reddaboina).
- ❖ Third Best Undergraduate (UG) Poster Award in “Research Symposium-2012” from Department of Chemistry in HESTEC 2012 (Student: Jessica Cruz).
- ❖ “**Outstanding Achievement Certificate**” by the Dean of College of Science & Mathematics (UTPA) in 2011.
- ❖ Best Graduate Poster Award (PG) from Department of Chemistry in HESTEC 2010 (Student: Mohamed I. Hashim).
- ❖ Appreciation certificate for the “**Role as Research Mentor**” in the Summer Research Program in 2009 by the Dean of College of Science & Engineering (UTPA) in 2009.
- ❖ Best Graduate Poster Award (PG) from Department of Chemistry in HESTEC 2009 (Student: R. Christopher Gonzales).
- ❖ High School Best Poster Award in UTPA in HESTEC 2009 (Student: Angela Thomas).
- ❖ High School Best Poster Award in UTPA in HESTEC 2008 (Student: Antara Banik).

Important Assignments

- Invited as a speaker in the **International Symposium of Asian Network of Research on Antidiabetic Plants (ANRAP)** was held in Dhaka, Bangladesh, on 5th June, 2006.
- Invited as a speaker in the **10th International Symposium on Natural Product Chemistry** was held in Karachi, Pakistan, from January 4th–9th, 2006.
- Invited as a speaker in the **Second International Symposium of Asian Network of Research on Antidiabetic Plants (ANRAP)** was held in Dhaka, Bangladesh, from December 6th–8th, 1997.
- Selected as a young scientist from India in the **Workshop on Antidiabetic Bioassay of Plant Materials**, organized by Asian Network of Research on Antidiabetic Plants (ANRAP) was held in Dhaka, Bangladesh, from December 11th–15th, 1996.

Positions and Employment

August 28th, 2018 to Present:	Assistant Professor (Tenure-track), Department of Chemistry, University of Texas Rio Grande Valley, USA.
September 2015 to August 2018:	Lecturer, Department of Chemistry, University of Texas Rio Grande Valley, USA.
September 2012 to August 2015:	Research Assistant Professor, Department of Chemistry, University of Texas-Pan American, USA.
June, 2007 to August, 2012:	Postdoctoral Fellow <i>with teaching assignment</i> (as per requirement of the Department) in the project funded by National Institutes of Health/National Cancer Institute at the Department of Chemistry, University of Texas-Pan American, USA.
Jan, 2003 to May, 2007:	Post-doctoral Research Associate (Research-cum-Lab teaching), Centre of Advanced Studies on Natural Products, Calcutta University, India.

Research related Expertise

- ✓ Processing and chemical analysis of phytochemicals as they relate to human health and disease.
- ✓ Elucidation of basic composition, structure and properties of the bioactive compounds and micronutrients.
- ✓ Extraction, isolation, characterization, and chemical modification of medicinally and/or industrially privileged chemicals from foods and food waste.
- ✓ Chemical analysis of food products.
- ✓ Design, *in silico* evaluation and Stereoselective synthesis of anticancer agents.
- ✓ Extraction, isolation and characterization of plant/marine natural products.
- ✓ Development of green (environmentally benign) methodologies.
- ✓ Able to develop nationally recognized externally-funded research program.
- ✓ Development of new teaching course at the undergraduate and graduate level.
- ✓ Active participation in the outreach activities.
- ✓ Hands on experience with sophisticated modern analytical instruments: NMR (both one and two dimensional), FT-IR, UV and GC-MS.
- ✓ Microwave Synthesizer and microwave-assisted reactions especially hands-on experience on the CEM-automated microwave and Anton-Parr microwave related synthesis.
- ✓ Skill on *in vitro* cytotoxicity testing of various cancer cell lines, cell-cycle study, determination of apoptosis pathway as well as data presentation.
- ✓ Efficiency in MS-Office, ChemBioDraw Office and ISIS-Draw, Mercury, Windows, Oracle, OPUS, AutoDock, MestReNova LITE etc.

Workshop/Training (National/International)

- **Training on “AVANCE I: High Resolution NMR Spectroscopy”** organized by Bruker BioSpin Corporation, 15 Fortune Drive, Billerica MA 01821, USA, from June 10th –13th, 2013.
- **One-year hands-on training on cancer biology:** As a service condition of National Cancer Institute (NCI) Postdoctoral Fellow working on P20 project [Grant# 5P20CA138022-02], I received one year (March, 2010 to February 2011) training on Biological (Cancer) evaluations of small molecules at the University of Texas Health Science Center at San Antonio-Regional Academic Health Center, Medical Research Division, 1214 West Schunior Street, Edinburg, TX 78541, USA.
- Certificate on **“Time Management”** from University of Texas-Pan American, USA.
- **“Workshop on X-ray Crystallography Techniques and Their Applications”**, organized by University of Calcutta was held in Kolkata, from March 18th –20th, 1998.
- **“Workshop on Antidiabetic Bioassay of Plant Materials”**, organized by Asian Network of Research on Antidiabetic Plants (ANRAP) was held in Dhaka, Bangladesh, from December 11th –15th, 1996.
- **“Workshop on Analytical Applications of GLC”**, jointly organized by Bose Institute, Calcutta and Central Forensic Science Laboratory, Calcutta from February 14th –16th, 1996.

Membership in Professional Societies

- ❖ Member of the Royal Society of Chemistry, England (**MRSC** ID# 492915)
- ❖ Fellow of the Indian Chemical Society (Fellowship # 4496)
- ❖ Member of the Asian Council of Science Editors (Membership # 91.10243)
- ❖ Life member of Indian Science Congress Association (Membership/ID# L7395).
- ❖ Life member of Indian Association for the Cultivation of Science (Member no./ID 3886).
- ❖ Member of the American Chemical Society (Member no./ID 30063645).
- ❖ Member of the American Association of University Professors (Member no./ID 1493323).

Research Career

1. **Ph. D.:** Date of Submission: 23/12/2002; Date of Award: 09/03/2004
Title of the Thesis: ***Studies on Nitrogen Heterocycles***
Department of Chemistry; Calcutta University, India
Supervisor: Prof. Avijit Banerji
Projects handled:
 - ⇒ Cyclic and Acyclic Nitron Cycloaddition reactions – Synthesis of Novel Isoxazole Derivatives
 - ⇒ Single Electron Transfer (SET) reactions.
 - ⇒ Extraction, isolation and characterization of natural products.
2. **Post-doctoral Experiences (Teaching & Research):**
 - (A) From January 2003 (Since the submission of Ph. D. thesis) to May, 2007

Projects handled at the Centre of Advanced Studies on Natural Products, University of Calcutta, India [Supervisors: Prof. Asima Chatterjee (deceased) & Prof. Julie Banerji]

- ⇒ Extraction, isolation and characterization of natural products.
- ⇒ Development of new spray reagents.
- ⇒ Single Electron Transfer (SET) reactions.

(B) **From June, 2007 to August, 2012** (Supervisor: Prof. Bimal K. Banik)

Projects handled at the University of Texas-Pan American, TX 78539, USA

- ⇒ Design, synthesis, isolation and spectroscopic characterization of novel anticancer β -lactams.
- ⇒ Design, synthesis, isolation and spectroscopic characterization of novel anticancer polyaromatic compounds.
- ⇒ Metal and metal salts-catalyzed reactions.
- ⇒ Development of new methodology for organic reactions.

3. **Research Assistant Professor:** From September, 2012 to August, 2015

- ⇒ Design, *in silico* evaluation, synthesis, isolation and spectroscopic characterization of novel anticancer β -lactams.
- ⇒ Design, *in silico* evaluation, synthesis, isolation and spectroscopic characterization of various bioactive small molecule inhibitors.
- ⇒ Development of Green methodologies.

4. **Lecturer (with independent laboratory):** From September, 2015 to August, 2018

- ⇒ Design, *in silico* evaluation, synthesis, isolation and spectroscopic characterization of novel anticancer β -lactams.
- ⇒ Design, *in silico* evaluation, synthesis, isolation and spectroscopic characterization of various bioactive small molecule inhibitors.
- ⇒ Development of Green methodologies.

5. **Assistant Professor (Tenure-track):** From August 28th, 2018 to Present

- ⇒ Extraction, isolation and characterization of natural products.
- ⇒ Design, *in silico* evaluation, synthesis, isolation and spectroscopic characterization of novel anticancer β -lactams.
- ⇒ Design, *in silico* evaluation, synthesis, isolation and spectroscopic characterization of various bioactive small molecule inhibitors.
- ⇒ Development of Green methodologies.
- ⇒ Chemical modification of Botanicals targeted to the synthesis of biologically active molecules.
- ⇒ Identification and Isolation of medicinally privileged and industrially relevant molecules from food waste and Searching of new food sources.

Extracurricular Activities

- ❖ Certificate on "Rastrabhasha Praramvik Pariksha"
- ❖ N.C.C. Certificate "A" (Part I & II)
- ❖ First-Aid certificate from Red Cross Society (India)
- ❖ Bratachari certificate

Publications:

Book (Edited): 1

Advances in Microwave Chemistry, CRC Press Taylor & Francis Group, LLC, Boca Raton, Florida 33487, USA [ISBN 9780815375197 (Print); 9781351240499 (eBook)]. The book has 534 Pages and 496 B/W Illustrations. Published on December 07, 2018. Editors: Bimal K. Banik and Debasish Bandyopadhyay.

Book Chapters: 6

1. **Debasish Bandyopadhyay** and Felipe Gonzalez, ***Anti-cancer Agents from Natural Sources*** In *Promising Drug Molecules of Natural Origin*, Eds. Rohit Dutt, Anil K. Sharma, Raj K. Keservani, and Vandana Garg. **Chapter 5**, Apple Academic Press (Exclusive worldwide distribution by CRC Press, a Taylor & Francis Group); Florida 32905 USA Publication Date: May 2020 [ISBN: 9781771888868] (*In Production*)
2. **Debasish Bandyopadhyay** and Valeria Garcia, and Felipe Gonzalez, ***Heterocyclic Drugs from Plants*** In *Promising Drug Molecules of Natural Origin*, Eds. Rohit Dutt, Anil K. Sharma, Raj K. Keservani, and Vandana Garg. **Chapter 8**, Apple Academic Press (Exclusive worldwide distribution by CRC Press, a Taylor & Francis Group); Florida 32905 USA Publication Date: May 2020 [ISBN: 9781771888868] (*In Production*).
3. **Debasish Bandyopadhyay**, Gabriel Lopez, Stephanie Cantu, Samantha Balboa, Annabel Garcia, Christina Silva, Diandra Valdes. In *Chemistry Research and Applications (Vol. 2): Organic and Medicinal Chemistry*, Chapter 9; ***Key Enzymes in Cancer: Mechanism of Action and Inhibition with Anticancer Agents***. 2018, Nova Science Publishers, Inc., Hauppauge, New York, USA (ISBN: 978-1-53614-855-8).
4. **Debasish Bandyopadhyay**, and Bimal K. Banik, ***Microwaves in Lactam Chemistry*** In *Advances in Microwave-Assisted Chemistry*, 2018, CRC Press Taylor & Francis Group, LLC, Boca Raton, Florida 33487, USA [ISBN 9780815375197 (Print); 9781351240499 (eBook)].
5. **Debasish Bandyopadhyay**, ***Curcumin: A folklore remedy from kitchen on the way to clinic as cancer drug*** In *Horizons in Cancer Research*, 2014, Nova Science Publishers, Inc., Hauppauge, New York, USA, pp.1- 42 (ISSN: 2159-1326; ISBN: 978-1-63463-247-8).
6. **Debasish Bandyopadhyay** and Bimal K. Banik, ***Microwave-induced Synthesis of Heterocycles of Medicinal Interests*** In *Green Synthetic Approaches for Biologically Relevant Heterocycles*, Chapter 19, 2014, Elsevier, Oxford, United Kingdom, pp. 517-557 (ISBN: 978-0-12-800070-0).

Publications in Internationally Peer-reviewed Journals (Total # 74, another FIVE are in pipeline). Fourteen articles as corresponding author.

- 74) Subrata Laskar, Omar Espino, **Debasish Bandyopadhyay**, "Isolation, solid-state structure determination, *in silico* and *in vitro* anticancer evaluation of an indole amino acid alkaloid L-Abrine". **Curr. Cancer Drug Targets**. 2019 (*In press*).
- 73) Bo Garza, Alondra Echeverria, Felipe Gonzalez, Orlando Castillo, Thomas Eubanks, Debasish Bandyopadhyay, "Phytochemical investigation of *Magnolia grandiflora* green seed cones: Analytical and phytoceutical studies". **Food Sci. Nutri**. 2019, 7, 1761-1767 [<https://doi.org/10.1002/fsn3.1016>].
- 72) Estefania Alexandre, **Debasish Bandyopadhyay**, "Growth Factors in the Human Body: A Conceptual Update". **Cohesive J. Microbiol. Infect. Dis**. 2019, 2(5), Article# CJMI.000546.2019. DOI: [10.31031/CJMI.2019.02.000546](https://doi.org/10.31031/CJMI.2019.02.000546)
- 71) Raisa Ramirez, **Debasish Bandyopadhyay**, "Pharmacological Aspects of Resveratrol". **Biomed. J. Sci. & Tech. Res**. 2019, 16(2), Article# 002815. DOI: [10.26717/BJSTR.2019.16.002815](https://doi.org/10.26717/BJSTR.2019.16.002815)
- 70) Cristian J. Rosales, **Debasish Bandyopadhyay**, "Vitamin D: Controversy, cancer and beyond". **J. Nutri. Bio**. 2018, 4(1), 236–243.
- 69) Cristina E. Raya, **Debasish Bandyopadhyay**, "Glutathione: A small molecule with big sense". **Int. J. Pharm. Sci. Res**. 2018, 4(5), 39–44.
- 68) Fabián Olazarán-Santibáñez, **Debasish Bandyopadhyay**, Pilar Carranza-Rosales, Gildardo Rivera, Isaías Balderas-Rentería, "Stereochemical preference toward oncotarget: Design, synthesis and *in vitro* anticancer evaluation of diastereomeric β -lactams". **Oncotarget** 2017, 8(23), 37773–37782.
- 67) Sushobhan Ukil, Subrata Laskar, **Debasish Bandyopadhyay**, "Isolation, purification and partial characterization of *Crotalaria pallida* Aiton seed proteins". **Int. J. Pept. Res. Ther**. 2017, 23(4), 461–467.
- 66) Fabian E. Olazaran, Carlos A. Garcia-Perez, **Debasish Bandyopadhyay**, Isaías Balderas-Renteria, Angel D. Reyes-Figueroa, Lars Henschke, Gildardo Rivera, "Theoretical and experimental study of polycyclic aromatic compounds as β -tubulin inhibitors", **J. Mol. Model**. 2017, 23(3), 1–10.
- 65) **Debasish Bandyopadhyay**, Bimal K. Banik, "Synthesis of medicinally privileged heterocycles through dielectric heating", **Curr. Med. Chem**. 2017, 24(41), 4596-4626. [This article was selected for press release by EurekAlert/AAAS, Bentham Science Publishers, BIONITY.com and CHEMEUROPE.com](#)
- 64) Claudia A. Almaraz, **Debasish Bandyopadhyay**, "Cytidine deaminase as a molecular target in cancer: an insight". **Cancer Cell Microenviron**. 2017, 4: e1584.
- 63) Prakash T. Parvatkar, P. S. Parameswaran, **Debasish Bandyopadhyay**, Sanghamitra Mukherjee, Bimal K. Banik, "Microwave-induced Bismuth(III)-

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 - 59) Thelma Salazar, Andres Gonzalez, **Debasish Bandyopadhyay**, "Dihydropyridines as calcium channel blockers: An overview". **J. Anal. Pharm. Res.** 2017, 5(4): 00148.
 - 58) **Debasish Bandyopadhyay**, Sanghamitra Mukherjee, Bimal K. Banik, "A Selective, Expeditious and Sustainable Entry en Route to Benzopyrazines and *bis*-Benzopyrazines", **Comb. Chem. High T. Scr.** 2015, 18, 53–62. [This article ranked 1st from the same field among 20 top-cited papers in the world in 2015.](#)
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 - 56) **Debasish Bandyopadhyay**, "Farmer to pharmacist: Curcumin as an anti-invasive and antimetastatic agent for the treatment of cancer", **Front. Chem.**, 2014, 2, Article# 113.
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- 44) Mandira Banik, Bianca Ramirez, Ashwini Reddy, **Debasish Bandyopadhyay**, Bimal K. Banik, "Polystyrenesulfonate-catalyzed synthesis of novel pyrroles through Paal-Knorr reaction", **Org. Med. Chem. Lett.**, (2012), 2:11(doi:10.1186/2191-2858-2-11).
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- 41) **Debasish Bandyopadhyay**, Jose C. Granados, John D. Short, Bimal K. Banik, "Polycyclic aromatic compounds as anticancer agents: Evaluation of synthesis and

- in vitro* cytotoxicity”, **Oncology Letters**, (2012), 3 (1), 45-49 (**This paper was highlighted as Front Cover featured article**).
- 40) **Debasish Bandyopadhyay**, Marco Yanez, Bimal K. Banik, “Microwave-induced stereoselectivity of β -lactam formation: effects of solvents”, **Heterocycl. Lett.**, (2011), 1 (Spl. Issue, July), 65-67.
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 - 38) **Debasish Bandyopadhyay**, Yvette Mora, Jesús A. Treviño Cantu, Bimal K. Banik, “An easy and straightforward route for the synthesis of disubstituted imidazoles”, **Heterocycl. Lett.**, (2011), 1 (Spl. Issue, July), 61-63.
 - 37) **Debasish Bandyopadhyay**, Rene S. Fonseca, Bimal K. Banik, “Microwave-induced bismuth nitrate-mediated selective hydrolysis of amides”, **Heterocycl. Lett.**, (2011), 1 (Spl. Issue, July), 75-77.
 - 36) Luis Canales, **Debasish Bandyopadhyay**, Bimal K. Banik, “Bismuth nitrate pentahydrate-induced novel nitration of Eugenol” **Org. Med. Chem. Lett.**, (2011), 1:9 (doi:10.1186/2191-2858-1-9).
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 - 33) Pizush Kanti Biswas, **Debasish Bandyopadhyay**, Thierry Prangé, Alain Neuman and Avijit Banerji, “A 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 Commun.**, (2011), 41 (8), 1146-1159.
 - 32) Sonya Rivera, **Debasish Bandyopadhyay**, Bimal K. Banik, “Microwave-induced bismuth nitrate-catalyzed electrophilic substitution of 7-aza indole with activated carbonyl compound under solvent-free conditions”, **Heterocycl. Lett.**, (2011), 1 (Spl. Issue, July), 43-46.
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 - 30) **Debasish Bandyopadhyay**, Manas Banerjee, Subrata Laskar, Bidyut Basak, “Asimafoetidol: a new Sesquiterpenoid Coumarin from the gum resin of *Ferula assa-foetida* L.”, **Nat. Product Commun.**, (2011), 6 (2), 209-212.

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- 26) Antara Banik, Sahil Bhatta, **Debasish Bandyopadhyay**, Bimal K. Banik, "A Highly Efficient Bismuth Salts-Catalyzed Route for the Synthesis of α -Aminophosphonates", **Molecules**, (2010), 15, 8205-8213.
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- 20) **Debasish Bandyopadhyay**, Antara Banik, Sahil Bhatta, Bimal K. Banik, "Microwave-Assisted Ruthenium Trichloride Catalyzed Synthesis of Pyrroles Fused with Indole Systems", **Heterocycl. Commun.**, (2009), 15 (2), 121-122.
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- 7) Avijit Banerji, **Debasish Bandyopadhyay**, Bidyut Basak, Kumar R. Sur, Jyoti N. Paul, Julie Banerji, Asima Chatterjee. "Effect of Sodium Naphthalenide, a key SET reagent, on Trifluoroacetyl Derivatives". **Tetrahedron Lett.** (2005), 46 (41), 7033-7035.
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- 3) Avijit Banerji, **Debasish Bandyopadhyay**, Bidyut Basak. "Effect of Sodium Naphthalenide, a key SET reagent, on 3-Substituted Indoles". **Heterocycles** (2004), 63 (10), 2371-2377.
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- 1) Avijit Banerji, Rita Ray, Sudhir C. Pal, **Debasis Banerji**, Kaustabh K. Maiti. "Metal Reagents in Organic Reactions. Part VI. Oxidation of Indoles with Thallium (III) acetate". **J. Ind. Chem. Soc.** (1998), 75(10-12), 698-704.

Plenary/Keynote/Invited Lectures (Total # 7)

1. **Debasish Bandyopadhyay** "Nexus of Synthesis, Semi-Synthesis and Extraction: Botanicals in Drug Development". Invited Lecture at the USDA Seminar was held at the University of Texas Rio Grande Valley (Health Affairs Building West), Edinburg, Texas, March 27, 2019 (*Invited lecture*).
2. **Debasish Bandyopadhyay** "Nexus of extraction, chemical modification, and synthesis: Natural products in drug development". Invited lecture at the International Conference of Chemistry for Human Development [ICCHD-2018] was held in Kolkata (India), January 8-10, 2018 (*Invited lecture*).
3. **Debasish Bandyopadhyay** "Treasures from Trash: Avocado Seed Husks as a Potential Source of Medicinal and Industrially Privileged Compounds". Plenary lecture in the Mid-season meeting of the World Avocado Organization was held at the Ritz Carlton Hotel in New Orleans, October 18, 2017 (*Plenary lecture*).
4. **Debasish Bandyopadhyay** "Treasures from Trash: Avocado Seed Husks as a Potential Source of Medicinal and Industrially Privileged Compounds." Keynote

lecture in the End-of-season meeting of the Peruvian Avocado Commission was held at the Ritz Carlton Hotel in New Orleans, October 19, 2017 ([Keynote lecture](#)).

5. **Debasish Bandyopadhyay** “Polycyclic Compounds as Anticancer Agents”. Inaugural (Plenary) lecture in the 3rd National Symposium of Pharmaceutical Sciences and Biomedicine and 1st National Symposium of Applied Microbiology held in Universidad Autónoma de Nuevo León (Mexico), September 01, 2016 ([Inaugural Plenary lecture](#)).
6. **Debasish Bandyopadhyay**, Bidyut Basak, Pizush Kanti Biswas, Avijit Banerji, Julie Banerji, Asima Chatterjee “Single Electron Transfer Reaction — A New Entry to the Synthesis of Nitrogen Macroheterocycles”. Invited lecture at the 5th *National Seminar on Antidiabetic Plant Materials*, Dhaka (Bangladesh), June 5, 2006 ([Invited lecture](#)).
7. **Debasish Bandyopadhyay**, Bidyut Basak, Julie Banerji, Avijit Banerji, Asima Chatterjee “Single Electron Transfer Approach for the Synthesis of Diindolylalkanes (DIMs) and Arylindolylmethanes (AIMs)”. Presented at the 10th *International Symposium on Natural Product Chemistry*, Karachi (Pakistan), January 6-9, 2006 ([Invited lecture](#)).

International/National Presentations (Total # 93)

- 93) **Debasish Bandyopadhyay**, Juan Escamilla, Sonia Wadekar, Orlando Castillo, “Highly efficient transition metal-free green synthesis of 4-aryl-2,4-dihydropyranopyrazoles.” Presented at the 258th ACS National Meeting, San Diego, CA, United States, August 25-29, (2019), ORGN-0118.
- 92) **Debasish Bandyopadhyay**, Zafira Castillo, Daisy Garza, “Trash-to-treasure transformation: Industrially and medicinally privileged compounds from Spanish moss, a neglected botanical”. Presented at the 258th ACS National Meeting, San Diego, CA, United States, August 25-29, (2019), ORGN-0117.
- 91) **Debasish Bandyopadhyay**, Christian Pena, Valerie M. Cano, “Microwave-assisted sustainable entry to 6H-chromeno[4,3-*b*]quinolin-6-ones.” Presented at the 257th ACS National Meeting, Orlando, FL, United States, March 31-April 4 (2019), ORGN-0175.
- 90) **Debasish Bandyopadhyay**, Bo Garza, Alondra Echeverria, Felipe Gonzalez, “Phytoceutical investigation of *Magnolia grandiflora* green seed cones”. Presented at the 257th ACS National Meeting, Orlando, FL, United States, March 31-April 4 (2019), ORGN-0392.
- 89) **Debasish Bandyopadhyay**, Rachel Elizondo, “Catalyst/solvent/support/additive/promoter-free green synthesis of 5-methyl-thiazolidin-4-ones”. Presented at the 256th ACS National Meeting, Boston, MA, United States, August 19-23, (2018), ORGN-637.

- 88) **Debasish Bandyopadhyay**, Martina Kay T. Vasquez, "Ultrasound-assisted expeditious green synthesis of pyrano[2,3-c]pyrazoles". Presented at the 256th ACS National Meeting, Boston, MA, United States, August 19-23, (2018), ORGN-636.
- 87) **Debasish Bandyopadhyay**, Daniel Garcia, Jonathan M. Rock, Jessica Cruz, "Ultrasound-assisted greener reaction of *o*-phenylenediamine with aldehyde: Benzimidazole *versus* 1,2-disubstituted benzimidazole formation". Presented at the 256th ACS National Meeting, Boston, MA, United States, August 19-23, (2018), ORGN-598.
- 86) **Debasish Bandyopadhyay**, Leanna Salinas, Adeeba Ahmad, "Nexus of food, energy, and bioactivity: Tomato juice mediated, microwave-assisted green route towards bioactive pyrroles". Presented at the 255th ACS National Meeting, New Orleans, LA, United States, March 18-22, (2018), ORGN-675.
- 85) **Debasish Bandyopadhyay**, Daniel Garcia, Jessica Cruz, Eder Arredondo-Espinoza, Fabian Olazaran Santibanez, Isaias Balderas-Renteria, "Chemoselective concurrent synthesis of benzimidazoles and 1,2-disubstituted benzimidazoles: Greener route and *in vitro* anti-cervical cancer evaluation". Presented at the 255th ACS National Meeting, New Orleans, LA, United States, March 18-22, (2018), ORGN-636.
- 84) **Debasish Bandyopadhyay**, Christian Pena, Valerie Cano, "Expedient 'on water' chemoselective green synthesis of 4-aminocoumarin bearing chromeno[4,3-b]quinolin-6-ones". Presented at the 255th ACS National Meeting, New Orleans, LA, United States, March 18-22, (2018), ORGN-635.
- 83) **Debasish Bandyopadhyay**, Orlando Castillo, Daniel Villicana, Valerie Cano, Thomas Eubanks, "Chemical investigation of Avocado (*Persea americana*) seed husk: A waste of waste". Presented at the 254th ACS National Meeting, Washington, DC, United States, August 20-24, (2017), ORGN-397 [[Selected for Press Release by the American Chemical Society](#)].
- 82) **Debasish Bandyopadhyay**, Jacobo Strong, "One-pot concurrent synthesis of thiazolidinones and benzothiazepinones: A greener route". Presented at the 254th ACS National Meeting, Washington, DC, United States, August 20-24, (2017), ORGN-580.
- 81) **Debasish Bandyopadhyay**, Adriana Rodriguez, Juan Rodriguez, Joccelyn Garcia, Thomas Eubanks, "Chemical investigation of southern live oak (*Quercus virginiana*) galls". Presented at the 254th ACS National Meeting, Washington, DC, United States, August 20-24, (2017), ORGN-399.
- 80) **Debasish Bandyopadhyay**, Alondra Echeverria, Bo Garza, Thomas Eubanks, "Medicinally privileged compounds from *Magnolia grandiflora* green seed cones". Presented at the 254th ACS National Meeting, Washington, DC, United States, August 20-24, (2017), ORGN-398.
- 79) **Debasish Bandyopadhyay**, Valerie Cano, Iliana Chapa, Alex Velasco, Maria Vigilar, Omar Espino, Gildardo Rivera, "*On water* green synthesis of antitubercular dicoumarols". Presented at the 254th ACS National Meeting, Washington, DC, United States, August 20-24, (2017), ORGN-396.

- 78) **Debasish Bandyopadhyay**, Jacobo Strong, "Microwave-assisted green synthesis of 1,3-thiazolidin-4-ones: An Insight". Presented at the 253rd ACS National Meeting, San Francisco, CA, United States, April 02-06 (2017), ORGN-791.
- 77) Fabian Olazaran-Santibanez, **Debasish Bandyopadhyay**, Pilar Carranza-Rosales, Gildardo Rivera, Isaias Balderas-Renteria, "First report of diastereodifferentiation of 2-azetidinones towards anticancer activity: Design, synthesis and in vitro evaluation". Presented at the 253rd ACS National Meeting, San Francisco, CA, United States, April 02-06 (2017), ORGN-790.
- 76) **Debasish Bandyopadhyay**, Omar Espino, Subrata Laskar, "Unusual amino acid from the seeds of *Abrus precatorius* Linn.: Isolation, characterization, in silico and in vitro anticancer evaluation". Presented at the 253rd ACS National Meeting, San Francisco, CA, United States, April 02-06 (2017), ORGN-617.
- 75) **Debasish Bandyopadhyay**, Sushobhan Ukil, Subrata Laskar, "Isolation, purification and partial characterization of *Crotalaria pallida* Ait seed proteins". Presented at the 253rd ACS National Meeting, San Francisco, CA, United States, April 02-06 (2017), ORGN-616.
- 74) **Debasish Bandyopadhyay**, Sandra Huerta, Alejandro Pardo, Bo Garza, "Fast and green one-pot multicomponent synthesis of substituted thiazolidin-4-ones". Presented at the 252nd ACS National Meeting, Philadelphia, PA, United States, August 21-25, (2016), ORGN-771.
- 73) **Debasish Bandyopadhyay**, Valerie Cano, Iliana Chapa, "Green expeditious synthesis of medicinally privileged chromeno[4,3-b]chromen-6(7H)-ones". Presented at the 252nd ACS National Meeting, Philadelphia, PA, United States, August 21-25, (2016), ORGN-770.
- 72) **Debasish Bandyopadhyay**, R. Gonzales, Eduardo Rodriguez, Juan Rodriguez, "Green multicomponent synthesis of tetrahydro-spiro[indoline-3,1'-naphthalene] derivatives". Presented at the 252nd ACS National Meeting, Philadelphia, PA, United States, August 21-25, (2016), ORGN-698.
- 71) **Debasish Bandyopadhyay**, Jonathan Rock, Taide Guajardo, Omar Espino, Joccelyn Garcia, "Synthesis of bioactive 2-azetidinones via [2+2] ketene-imine cycloaddition strategy". Presented at the 252nd ACS National Meeting, Philadelphia, PA, United States, August 21-25, (2016), ORGN-697.
- 70) **Debasish Bandyopadhyay**, Jose C. Salinas, Omar Espino, "Synthesis of spiro indole-3,1'-naphthalene tetracyclic system: A green approach". Presented at the 251st ACS National Meeting, San Diego, CA, United States, March 13-17, (2016), ORGN-747.
- 69) **Debasish Bandyopadhyay**, Sandra S. Huerta, Alejandro Pardo, Omar Espino, "One-pot, four-component green synthesis of medicinally privileged pyranopyrazoles". Presented at the 251st ACS National Meeting, San Diego, CA, United States, March 13-17, (2016), ORGN -746.

- 68) **Debasish Bandyopadhyay**, Valerie M. Cano, Iliana M. Chapa, Alex Velasco, Jonathan M. Rock, "Microwave-assisted, new green route toward chromeno[4,3-b]chromen-6(7*H*)-one". Presented at the 251st ACS National Meeting, San Diego, CA, United States, March 13-17, (2016), ORGN-675.
- 67) **Debasish Bandyopadhyay**, Jonathan M. Rock, Omar Espino, Valerie M. Cano, Maura F. Subedar, Jessica Galindo, Berenice Serrata, Melissa Tupper, Rajesh Nandipaty, Fernando A. Padilla, "β-Lactams as anticancer agent: Design, synthesis, and biological evaluation". Presented at the 251st ACS National Meeting, San Diego, CA, United States, March 13-17, (2016), ORGN-674.
- 66) **Debasish Bandyopadhyay**, Fabian Olazaran-Santibanez, Andrea K. Contreras, Iliana M. Chapa, Isaias Balderas-Renteria, Gildardo Rivera, Bimal K. Banik, "Design, synthesis, and anticancer evaluation of diversely substituted 2-azetidinones" Presented at the 250th ACS National Meeting, Boston, MA, August 16-20, (2015), ORGN-766.
- 65) **Debasish Bandyopadhyay**, Jose Salinas, Valerie M. Cano, Alex Velasco, "Organocatalyzed multicomponent synthesis of pyranopyrazoles: A green approach" Presented at the 250th ACS National Meeting, Boston, MA, August 16-20, (2015), ORGN-709.
- 64) **Debasish Bandyopadhyay**, Jessica Cruz, Bimal K. Banik, "Synthesis and in vitro biological evaluation of N-aryl-3-pyrrolyl-β-lactams against cancer cells" Presented at the 250th ACS National Meeting, Boston, MA, August 16-20, (2015), ORGN-708.
- 63) Omar Espino, Fabian Olazaran-Santibanez, Sanghamitra Mukherjee, Isaias Balderas-Renteria, Julieta Luna-Herrera, Jessica M. Colin-Navarrete, Ricardo Ruiz-Nicolas, Gildardo Rivera, Bimal K. Banik, **Debasish Bandyopadhyay**, "Design, synthesis, and antitubercular evaluation of diversely substituted quinoxalines" Presented at the 250th ACS National Meeting, Boston, MA, August 16-20, (2015), ORGN-254.
- 62) Jessica Cruz, **Debasish Bandyopadhyay**, Bimal K. Banik, "Design, synthesis, and anticancer assessment of 1,4-diaryl-3-(1*H*-pyrrol-1-yl)azetidin-2-ones" Presented at the 250th ACS National Meeting, Boston, MA, August 16-20, (2015), ORGN-253.
- 61) **Debasish Bandyopadhyay**, Mark Pena-Agudelo, "One-pot four-component synthesis of pyranopyrazoles under microwave irradiation: A green procedure". Presented at the 249th ACS National Meeting, Denver, CO, March 22-26, (2015), ORGN-590.
- 60) **Debasish Bandyopadhyay**, Chelsea L. Gibbs, "Synthesis of pyrazolopyranopyrimidines under controlled microwave exposure: An eco-friendly approach". Presented at the 249th ACS National Meeting, Denver, CO, March 22-26, (2015), ORGN-589.
- 59) **Debasish Bandyopadhyay**, Javier A. Perez, Hannah R. Cardenas, Bimal K. Banik, "Organocatalyzed green synthesis of bis-benzopyrazines: An entry to novel heteroaromatics". Presented at the 249th ACS National Meeting, Denver, CO, March 22-26, (2015), ORGN-534.

- 58) **Debasish Bandyopadhyay**, Olga M. Rodriguez, Iliana M. Chapa, Artemio Zavala, Bimal K. Banik, "Ultrasound-assisted green synthesis of diversely substituted oxindoles". Presented at the 249th ACS National Meeting, Denver, CO, March 22-26, (2015), ORGN-533.
- 57) **Debasish Bandyopadhyay**, Alex Velasco, Artemio Zavala, Bimal K. Banik, "Organocatalyzed ecofriendly route toward medicinally privileged indoles". Presented at the 248th ACS National Meeting, San Francisco, CA, August 10-14, (2014), ORGN-770.
- 56) **Debasish Bandyopadhyay**, Alex Velasco, Iliana M. Chapa, Bimal K. Banik, "Sonochemical route toward diversely substituted dicoumarols: A sustainable protocol". Presented at the 248th ACS National Meeting, San Francisco, CA, August 10-14, (2014), ORGN-771.
- 55) **Debasish Bandyopadhyay**, Daniel Garcia, Bimal K. Banik, "Green synthesis of polyhydroquinolines: An easy and practical approach". Presented at the 248th ACS National Meeting, San Francisco, CA, August 10-14, (2014), ORGN-974.
- 54) **Debasish Bandyopadhyay**, Daniel Garcia, Bimal K. Banik, "Ultrasound-assisted Lewis acid catalyzed sustainable route toward benzimidazoles". Presented at the 248th ACS National Meeting, San Francisco, CA, August 10-14, (2014), ORGN-975.
- 53) Ram N. Yadav, Armando Paniagua, Sunena Chandra, **Debasish Bandyopadhyay**, Bimal K. Banik, "Intramolecular azide alkyne [3+2] cycloaddition: An efficient route to azeto-triazole diazepinone". Presented at the 248th ACS National Meeting, San Francisco, CA, August 10-14, (2014), ORGN-225.
- 52) Armando Paniagua,; Sunena Chandra, Ram N. Yadav, **Debasish Bandyopadhyay**, Bimal K. Banik, "Copper free intramolecular β -lactam tethered azide-alkyne [3+2] cycloaddition: An efficient synthesis of enantiopure tricyclic β -lactam triazoles". Presented at the 248th ACS National Meeting, San Francisco, CA, August 10-14, (2014), ORGN-227.
- 51) **Debasish Bandyopadhyay**, Daniel Garcia, Bimal K. Banik, "Ultrasound-assisted organocatalyzed green synthesis of medicinally privileged benzimidazoles". Presented at the 247th ACS National Meeting, Dallas, TX, March 16-20, 2014 (2014), ORGN-637.
- 50) **Debasish Bandyopadhyay**, Christopher C. Garcia, Bimal K. Banik, "Synthesis of pyridopyrazines under controlled microwave exposure: A green procedure". ". Presented at the 247th ACS National Meeting, Dallas, TX, March 16-20, 2014 (2014), ORGN-638.
- 49) **Debasish Bandyopadhyay**, Artemio Zavala, Bimal K. Banik, "Organocatalyzed practical and ecofriendly synthesis of 2,3-dihydropyrazines". Presented at the 247th ACS National Meeting, Dallas, TX, March 16-20, 2014 (2014), ORGN-686.
- 48) **Debasish Bandyopadhyay**, Daniel Garcia, Bimal K. Banik, "Ultrasound-assisted organocatalyzed synthesis of quinoxalines and bis-quinoxalines: A green protocol". Presented at the 247th ACS National Meeting, Dallas, TX, March 16-20, 2014 (2014), ORGN-689.

- 47) Ravi Reddaboyna, **Debasish Bandyopadhyay**, Ram N. Yadav, Bimal K. Banik, "Diastereoselective synthesis of beta-lactam derived from ketones". Presented at the 247th ACS National Meeting, Dallas, TX, March 16-20, 2014 (2014), ORGN-693.
- 46) **Debasish Bandyopadhyay**, Artemio Zavala, Marco Yanez, Bimal K. Banik, "Microwave-assisted bismuth nitrate pentahydrate catalyzed novel entry toward 3,3-di(3-indolyl)-2-oxindoles and 3-indolyl-3-hydroxy oxindoles". Presented at the 246th ACS National Meeting, Indianapolis, Indiana, September 8-12, (2013) ORGN 352.
- 45) **Debasish Bandyopadhyay**, Lauren C. Smith, and Bimal K. Banik, "Ultrasound-assisted green approach toward substituted 2,4(1*H*)-diarylimidazoles". Presented at the 246th ACS National Meeting, Indianapolis, Indiana, September 8-12, (2013) ORGN 353.
- 44) **Debasish Bandyopadhyay**, Erika E. Razo, Bimal K. Banik, "Microwave-assisted practical green approach toward dicoumarols". Presented at the 246th ACS National Meeting, Indianapolis, Indiana, September 8-12, (2013) ORGN 143.
- 43) **Debasish Bandyopadhyay**, Aymi E. Rodriguez, Louis E. Gonzalez, Bimal K. Banik, "First report for the one-pot synthesis of 4*a*-hydroxy-9-phenyldecahydro-1*H*-xanthene-1,8(8*aH*)-dione following green route". Presented at the 246th ACS National Meeting, Indianapolis, Indiana, September 8-12, (2013) ORGN 142.
- 42) **Debasish Bandyopadhyay**, Jessica Cruz, Liza D. Morales, Hadi D. Arman, Erica Cuate, Young Suk Lee, Dae Joon Kim, Bimal K. Banik, "Green synthesis and biological evaluation of quinoxalines and *bis*-quinoxalines as Stat3 phosphorylation/activation inhibitor". Presented at the 245th ACS National Meeting, New Orleans, Louisiana, April 7-11, (2013) ORGN 272. **This presentation was selected for "Presentation on Demand"**.
- 41) **Debasish Bandyopadhyay**, Ashlee Chavez, and Bimal K. Banik, "Bismuth nitrate-catalyzed Paal-Knorr reaction of 3-amino β -lactams: A green approach toward substituted pyrroles". Presented at the 245th ACS National Meeting, New Orleans, Louisiana, April 7-11, (2013) ORGN 898.
- 40) **Debasish Bandyopadhyay**, Jessica Cruz, Ram N. Yadav, Bimal K. Banik, "Clauson-Kaas reaction of 3-amino β -lactams: A novel entry toward *N*-(2-azetidinone)-substituted pyrroles". Presented at the 245th ACS National Meeting, New Orleans, Louisiana, April 7-11, (2013) ORGN 897. **This presentation was selected for "Presentation on Demand"**.
- 39) **Debasish Bandyopadhyay**, Selina Samano, Juan C. Villalobos-Rocha, Luvia E. Sanchez-Torres, Benjamín Noguera-Torres, Gildardo Rivera, Bimal K. Banik, "Green synthesis and *in vitro* biological evaluation of benzimidazoles against Chagas' disease and leishmaniasis". Presented at the 245th ACS National Meeting, New Orleans, Louisiana, April 7-11, (2013) ORGN 273. **This presentation was selected for "Presentation on Demand"**.
- 38) Ashlee Chavez, **Debasish Bandyopadhyay**, Bimal K. Banik, "Stereoselective synthesis of novel *bis*- β -lactams". Presented at the 245th ACS National Meeting, New

Orleans, Louisiana, April 7-11, (2013) ORGN 944. **This presentation was selected for "Presentation on Demand".**

- 37) **Debasish Bandyopadhyay**, Jessica Cruz, Bimal K. Banik, "Synthesis of 3-pyrrole substituted β -lactams: A novel approach". Presented at the 244th ACS National Meeting, Philadelphia, Pennsylvania, August 19-23, (2012) ORGN 152. **This presentation was selected for "Presentation on Demand".**
- 36) **Debasish Bandyopadhyay**, Stephanie Maldonado, Bimal K. Banik, "Microwave-assisted green route toward Hantzsch 1,4-dihydropyridines". Presented at the 244th ACS National Meeting, Philadelphia, Pennsylvania, August 19-23, (2012) ORGN 210. **This presentation was selected for "Presentation on Demand".**
- 35) **Debasish Bandyopadhyay**, Bimal K. Banik, "Synthesis of vanillin from curcumin: An easy and practical approach". Presented at the 244th ACS National Meeting, Philadelphia, Pennsylvania, August 19-23, (2012) ORGN 784. **This presentation was selected for "Presentation on Demand".**
- 34) Bimal K. Banik, Indrani Banik, **Debasish Bandyopadhyay**, Frederick F. Becker, "Microwave-induced novel synthesis of anticancer β -lactam". Presented at the 244th ACS National Meeting, Philadelphia, Pennsylvania, August 19-23, (2012) ORGN 405.
- 33) **Debasish Bandyopadhyay**, Jose C. Granados, John D. Short, Bimal K. Banik, "Synthesis of pyrenyl compounds as potential anticancer agents". Presented at the 243rd ACS National Meeting, San Diego, CA, March 25-29, (2012) ORGN 825.
- 32) **Debasish Bandyopadhyay**, Gildardo Rivera, Jose C. Granados, Fang-Mei Chang, John D. Short, Bimal K. Banik, "Bismuth nitrate-induced novel nitration of estradiol: An entry to new anticancer agents". Presented at the 243rd ACS National Meeting, San Diego, CA, March 25-29, (2012) ORGN 824.
- 31) **Debasish Bandyopadhyay**, R. Christopher Gonzales, Sanghamitra Mukherjee, Bimal K. Banik, "Bismuth nitrate catalyzed expeditious synthesis of 2,4,6-triarylpyridines". Presented at the 243rd ACS National Meeting, San Diego, CA, March 25-29, (2012) ORGN 826.
- 30) Bimal K. Banik, **Debasish Bandyopadhyay**, John Short, Chris Granados, Frank Dean, "Synthesis of polycyclic aromatic compounds and their biological evaluation as anticancer agents". Presented at the NIH/NCI Biomedical Symposium, Bethesda, MD, July, 2011, P-5.
- 29) **Debasish Bandyopadhyay**, John Short, Chris Granados, Bimal K. Banik, "Synthesis and biological evaluation of new polyaromatic anticancer agents". Presented at the 241st ACS National Meeting, Anaheim, CA, United States, March 27-31, (2011), ORGN-643.
- 28) **Debasish Bandyopadhyay**, Sanghamitra Mukherjee, John Short, Chris Granados, Frank Dean, Bimal K. Banik, "Ultrasound-assisted, bismuth nitrate-catalyzed expeditious synthesis and biological evaluation of N-substituted pyrrole derivatives" Presented at the 241st ACS National Meeting, Anaheim, CA, United States, March 27-31, (2011), ORGN-486.

- 27) **Debasish Bandyopadhyay**; Luis C. Turrubiarres, Bimal K. Banik, "Ultrasound-assisted Aza-Michael reaction in water: A unique observation", Presented at the *241st ACS National Meeting*, Anaheim, CA, United States, March 27-31, (2011), ORGN-480.
- 26) **Debasish Bandyopadhyay**, Luis C. Turrubiarres, Frederick F. Becker, Bimal K. Banik, "Diastereoselectivity of β -lactam formation with polyaromatic imines: Synthesis of novel anticancer agents". Presented at the *240th ACS National Meeting*, Boston, MA, United States, August 22-26, (2010), ORGN-763.
- 25) Katherine Ramos, **Debasish Bandyopadhyay**, Bimal K. Banik, "Phosphoric acid-catalyzed Michael reaction of indoles". Presented at the *239th ACS National Meeting*, San Francisco, CA, United States, March 21-25, (2010), ORGN-195.
- 24) Andrea Kall, **Debasish Bandyopadhyay**, Bimal K. Banik, "Iodine-catalyzed asymmetric synthesis of pyrrole-substituted β -lactams". Presented at the *239th ACS National Meeting*, San Francisco, CA, United States, March 21-25, (2010), ORGN-257.
- 23) **Debasish Bandyopadhyay**, Antara Banik, Sahil Batta, Bimal K. Banik, "Bismuth Salts-Catalyzed Easy and Highly Efficient Route to the Synthesis of Amino Phosphonates", Presented at the *238th ACS National Meeting*, Washington, DC, August 16-20, (2009), ORGN-645.
- 22) **Debasish Bandyopadhyay**, Andrea Kall, Bimal K. Banik, "Microwave-Induced Aza-Michael Reaction in Water: Remarkable Simple and Environmentally Benign Procedure", Presented at the *238th ACS National Meeting*, Washington, D. C., August 16-20, (2009), ORGN-646.
- 21) **Debasish Bandyopadhyay**, Bimal K. Banik, "Microwave-Induced Stereocontrol of β -Lactam Formation with Dihydrophenanthrenyl Imine Via Staudinger Reaction", Presented at the *238th ACS National Meeting*, Washington, D. C., August 16-20, (2009), ORGN-649.
- 20) Jerome Escano, **Debasish Bandyopadhyay**, Bimal K. Banik, "Bismuth Salts-Induced Alkylation of Active Methylene Compounds with Benzylic Alcohols: A Remarkable Simple and Efficient Procedure", Presented at the *238th ACS National Meeting*, Washington, D. C., August 16-20, (2009), ORGN-107.
- 19) **Debasish Bandyopadhyay**, Dina Abrego, Bimal K. Banik, "Microwave-Assisted Indium-Catalyzed Synthesis of Pyrrole Fused with Indole System: An Eco-friendly Approach", Presented at the *238th ACS National Meeting*, Washington, D. C., August 16-20, (2009), ORGN-108.
- 18) **Debasish Bandyopadhyay**, Antara Banik, Sahil Batta, Bimal K. Banik, "Microwave-Induced Ruthenium Trichloride-Catalyzed Synthesis of Pyrrole Fused with Indole System in Water", Presented at the *238th ACS National Meeting*, Washington, D. C., August 16-20, (2009), ORGN-414.

- 17) R. Christopher Gonzalez, **Debasish Bandyopadhyay**, Bimal K. Banik, "Synthesis of 3-Amino β -Lactams Derived From Polyaromatic Compounds", Presented at the *238th ACS National Meeting*, Washington, D. C., August 16-20, (2009), ORGN-432.
- 16) **Debasish Bandyopadhyay**, Monica Xavier, Bimal K. Banik, "Synthesis of Phthalimido β -Lactams Via the Staudinger Reaction Using Polyaromatic Imines", Presented at the *238th ACS National Meeting*, Washington, D. C., August 16-20, (2009), ORGN-650.
- 15) **Debasish Bandyopadhyay**, Erica Cuate, Bimal K. Banik, "Green Chemistry: Indium-Promoted Practical Method for the Synthesis of Quinoxalines", Presented at the *238th ACS National Meeting*, Washington, D. C., August 16-20, (2009), ORGN-413.
- 14) Bimal K. Banik, Erica Cuate, **Debasish Bandyopadhyay**, "Bismuth Nitrate-Induced Straightforward Synthesis of Quinoxalines", Presented at the *National Organic Chemistry Symposium*, Boulder, CO, June, 2009, A-92.
- 13) Bimal K. Banik, Dina Abrego, **Debasish Bandyopadhyay**, "Indium-Induced Synthesis of Pyrrole Substituted Indolinones", Presented at the *National Organic Chemistry Symposium*, Boulder, CO, June, 2009, B-91.
- 12) Bimal K. Banik, Sonya Rivera, **Debasish Bandyopadhyay**, "Microwave-induced Bismuth Nitrate-Catalyzed Novel Synthesis of Pyrroles", Presented at the *Tetrahedron Annual International Symposium*, Paris, France, June, 2009, A-76.
- 11) Bimal K. Banik, Erica Cuate, **Debasish Bandyopadhyay**, "Bismuth Nitrate-Induced Expeditious Synthesis of Quinoxalines", Presented at the *Tetrahedron Annual International Symposium*, Paris, France, June, 2009, B-75.
- 10) Erica Cuate, Debasish Bandyopadhyay, Bimal K. Banik, "Bismuth Nitrate-Catalyzed Straightforward Synthesis of Quinoxalines", Presented at the *237th ACS National Meeting*, Salt Lake City, UT, March 22-26, (2009), ORGN-215.
- 9) Sonya Rivera, **Debasish Bandyopadhyay**, Bimal K. Banik, "Microwave-Assisted Bismuth Nitrate-Catalyzed Novel Synthesis of Pyrroles", Presented at the *237th ACS National Meeting*, Salt Lake City, UT, March 22-26, (2009), CHED-038.
- 8) Hashim I. Mohamed, **Debasish Bandyopadhyay**, Bimal K. Banik, "Synthesis of Vinyl β -Lactams With Polycyclic Aromatic Imines", Presented at the *237th ACS National Meeting*, Salt Lake City, UT, March 22-26, (2009), ORGN-059.
- 7) Sonya Rivera, Laura Iglesias, **Debasish Bandyopadhyay**, Bimal K. Banik, "Bismuth Nitrate-Catalyzed Synthesis of Indoles and Azaindoles With Activated Compounds", Presented at the *Annual NIH Biomedical Conference*, Orlando, FL, November, 2008.
- 6) Bimal K. Banik, Selina Samano, Yvette Mora, **Debasish Bandyopadhyay**, "Microwave-induced synthesis of disubstituted imidazoles", Presented at the *236th ACS National Meeting*, Philadelphia, PA, August 17-21, (2008), ORGN-688.

- 5) Bimal K. Banik, Sonya Rivera, Laura Iglesias, **Debasish Bandyopadhyay**, "Bismuth nitrate-catalyzed expeditious Synthesis of *bis* aza-indoles under solventless conditions", Presented at the *236th ACS National Meeting*, Philadelphia, PA, August 17-21, (2008), ORGN-687.
- 4) Bimal K. Banik, Laura Iglesias, Sonya Rivera, **Debasish Bandyopadhyay**, "Bismuth nitrate-catalyzed expeditious Synthesis of *bis*-indoles under solventless conditions", Presented at the *236th ACS National Meeting*, Philadelphia, PA, August 17-21, (2008), ORGN-685.
- 3) Isabella Garcia, **Debasish Bandyopadhyay**, Bimal K. Banik, "Stereocontrolled synthesis toward novel *bis* β -lactams", Presented at the *235th ACS National Meeting*, New Orleans, LA, April 6-10, (2008), ORGN-524.
- 2) Andrea Kall, Dorothy Owens, **Debasish Bandyopadhyay**, Bimal K. Banik, "Bismuth nitrate-catalyzed Michael reaction in water and organic solvents", Presented at the *235th ACS National Meeting*, New Orleans, LA, April 6-10, (2008), ORGN-192.
- 1) Avijit Banerji, Sukla Maiti, **Debasish Banerji**, Julie Banerji, Amitabha Sengupta, Purnima Adhikary, M. Mosihuzzaman, Nilufar Nahar. "Investigation of Some Indian Medicinal Plants for Antidiabetic Activity". Presented at the *Second International Seminar on Plant Materials as a source of Antidiabetic Agents; Asian Network of Research on Antidiabetic Plants (ANRAP)*, Dhaka (Bangladesh), December 6-8, 1997; P. 33.

Press Releases (Total # 3, covered by more than 240 news agencies worldwide)

Press Release: 3

3) **Debasish Bandyopadhyay**, Orlando Castillo, Daniel Villicana, Valerie Cano, Thomas Eubanks, "Chemical investigation of Avocado (*Persea americana*) seed husk: A waste of waste". Presented at the 254th ACS National Meeting, Washington, DC, United States, August 20-24, (2017), ORGN-397.

Number of news agencies (worldwide) covered this research: 225+

American Chemical Society (ACS) selected our research out of about 9400 (nine thousand four hundred) topics from various branches of Chemistry worldwide. The below is the link of ACS press release. More than **225 newspapers/channels** have published this discovery in all the major languages around the world. These are:

<https://www.acs.org/content/acs/en/pressroom/newsreleases/2017/august/avocado-seed-husks-could-be-a-gold-mine-of-medicinal-and-industrial-compounds.html>

ACS has uploaded my press conference in their YouTube channel as below:

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Number of news agencies (worldwide)covered this research: 9+

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Outreach Program (ACS/Reddit)

Hosted ACS/Reddit science outreach program which is one of the largest online scientific communities in the world with more than 17 million subscribers. The program was hosted on 09/26/2017 as an expert in "Greener Drug Discovery". Please follow the link:

https://www.reddit.com/r/science/comments/72ke0a/hi_reddit_im_debasish_bandyopadhyay_of_the/

State/Regional/Local Presentations (Total # 93)

- 93) Jessica Cruz, **Debasish Bandyopadhyay**, and Bimal K. Banik, "Clauson-Kaas reaction of 3-amino β -lactams: A novel entry toward N-(2-azetidinone)-substituted

- pyrroles as potential anticancer agents". ", Presented at the **VISTA**Summit: HEALTH Symposium, Edinburg, TX, November 28, 2012.
- 92) Ravi Reddaboyna, **Debasish Bandyopadhyay**, and Bimal K. Banik, "First Report of Unusual Amination using Norbornene as Organocatalyst", Presented at the HESTEC Research Symposium, Edinburg, TX, September, 2012.
- 91) Jessica Cruz, **Debasish Bandyopadhyay**, and Bimal K. Banik, "Novel synthesis of 3-pyrrole substituted β -lactams via microwave-induced bismuth nitrate-catalyzed reaction", Presented at the HESTEC Research Symposium, Edinburg, TX, September, 2012.
- 90) Luis C. Turrubiarres, **Debasish Bandyopadhyay**, Sanghamitra Mukherjee, Bimal K. Banik, "Ultrasound-Assisted Aza-Michael Reaction in Water", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2011.
- 89) Rosario A. V. Cárdenas, Blanca O. Q. Leal, **Debasish Bandyopadhyay**, Bimal K. Banik, "Bismuth Nitrate-Catalyzed Novel Bromination of Indole by *N*-Bromosuccinimide", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2011.
- 88) Blanca O. Q. Leal, Rosario A. V. Cárdenas, **Debasish Bandyopadhyay**, Bimal K. Banik, "Microwave-Induced Diastereoselective Synthesis of Anticancer *bis* β -Lactams", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2011.
- 87) Rani Nandipaty, Sanghamitra Mukherjee, **Debasish Bandyopadhyay**, Bimal K. Banik, "A simple Method of N-Acylation of Aromatic Primary Amines Using Molecular Sieves as Drying Agent", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2011.
- 86) Mario Solis, Sanghamitra Mukherjee, **Debasish Bandyopadhyay**, Bimal K. Banik, "Bismuth Nitrate-catalyzed Novel Acylation of Indoles: Synthesis of 3-Substituted Indoles", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2011.
- 85) Mario Solis, Sanghamitra Mukherjee, **Debasish Bandyopadhyay**, Bimal K. Banik, "Stereospecific Synthesis of Chiral β -Lactams", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2011.
- 84) R. Christopher Gonzales, **Debasish Bandyopadhyay**, Sanghamitra Mukherjee and Bimal K. Banik, "Bismuth Nitrate-Catalyzed Kröhnke Reaction", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2011.
- 83) Ashwini Bobbala, **Debasish Bandyopadhyay**, Bimal K. Banik, "Polyaromatic Compounds as Novel Anticancer Agents", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2011.
- 82) Hartini Gellang, **Debasish Bandyopadhyay**, Bimal K. Banik, "Bismuth Nitrate-Catalyzed Nucleophilic Addition of Indoles", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2011.

- 81) Juliana M. Velazquez, **Debasish Bandyopadhyay**, Bimal K. Banik, "Indium-Catalyzed Synthesis of Aminonitriles Via Imine", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2011.
- 80) Mandira Banik, **Debasish Bandyopadhyay**, Bimal K. Banik, "Polystyrenesulfonate-Catalyzed Novel synthesis of Anticancer Pyrroles", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2011.
- 79) Juliana M. Velazquez, **Debasish Bandyopadhyay**, Bimal K. Banik, "An Expeditious Synthesis of Amino β -Lactams from Polyaromatic Imines", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2011.
- 78) Dilpreet Lidhar, **Debasish Bandyopadhyay**, Bimal K. Banik, "Asymmetric Synthesis of β -Lactams Derived From Terpenoids", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2011.
- 77) Stephanie Maldonado, **Debasish Bandyopadhyay**, Bimal K. Banik, "An Expeditious Synthesis of Hantzsch 1,4-Dihydropyridines", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2011.
- 76) Ana K. Vasquez, **Debasish Bandyopadhyay**, Bimal K. Banik, "Bismuth Nitrate-Catalyzed Synthesis of Indoloquinolines", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2011.
- 75) Marco Yañez, **Debasish Bandyopadhyay**, Bimal K. Banik, "Microwave-Assisted Synthesis of β -Lactams: Effects of Solvents", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2011.
- 74) Mario Solis, Rene Solano, Sanghamitra Mukherjee, **Debasish Bandyopadhyay**, Bimal K. Banik, "Stereoselective Synthesis of Optically Active β -Lactams", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2010.
- 73) R. Christopher Gonzales, **Debasish Bandyopadhyay**, Bimal K. Banik, "Bismuth Nitrate-Catalyzed Novel Route Toward Unique Triarylpyridines", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2010.
- 72) Rene Solano, **Debasish Bandyopadhyay**, Sanghamitra Mukherjee, Bimal K. Banik, "Bismuth Nitrate-Catalyzed Remarkable Annulations of Phenols with Ketones", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2010.
- 71) Luis C. Turrubiarres, **Debasish Bandyopadhyay**, Sanghamitra Mukherjee, Bimal K. Banik, "Ultrasound-Assisted Environmentally Benign Aza-Michael Reaction in Water", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2010.
- 70) Joanna Moreno; Bimal K. Banik, Robert Danso, Sanghamitra Mukherjee, **Debasish Bandyopadhyay**, "Nucleophilic Addition of Heterocyclic Compounds to Indoles Via Bismuth Nitrate-Catalyzed Reactions", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2010.

- 69) Carlos Carames, **Debasish Bandyopadhyay**, Bimal K. Banik, "Novel Anticancer Agents Derived from Polyaromatic Compounds", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2010.
- 68) Stephanie Maldonado, **Debasish Bandyopadhyay**, Bimal K. Banik, "Bismuth Nitrate-Catalyzed Green Synthesis of Hantzsch 1,4-Dihydropyridines", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2010.
- 67) Jerome Escano, **Debasish Bandyopadhyay**, Bimal K. Banik, "Bismuth Nitrate Pentahydrate-Catalyzed Synthesis of Diazepine", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 66) Andrea E. Kall, **Debasish Bandyopadhyay**, Bimal K. Banik, "A "Green" Approach toward aza-Michael Addition", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 65) Antara Banik, Sahil Bhatta, **Debasish Bandyopadhyay**, Bimal K. Banik, "An Excellent Strategy for the Synthesis of Pyrrole fused with Indolinone in RuCl₃/Water System", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 64) Antonio Reyna, **Debasish Bandyopadhyay**, Bimal K. Banik, "Polyaromatic Amines and Aliphatic Carbonyl Compound derived β -Lactams", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 63) Juliana M. Velazquez, **Debasish Bandyopadhyay**, Bimal K. Banik, "An Expedient Synthesis of Amino β -lactams from Polyaromatic Imines", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 62) R. Christopher Gonzales, **Debasish Bandyopadhyay**, Bimal K. Banik, "Microwave-induced stereocontrol in the Synthesis of Anticancer β -Lactams", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 61) Dina M. Abrego, **Debasish Bandyopadhyay**, Bimal K. Banik, "Indium-promoted Eco-friendly Approach for the Synthesis of Pyrrole fused with indolinone system", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 60) Eric Gonzalez, **Debasish Bandyopadhyay**, Bimal K. Banik, "Radical-Mediated Reactions toward the Synthesis of Heteropolycyclic β -Lactams", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 59) Erica Cuate, **Debasish Bandyopadhyay**, Bimal K. Banik, "Indium-mediated Eco-friendly Procedure for the Synthesis of Novel Heteroaromatics", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 58) Gildardo R. Sánchez, **Debasish Bandyopadhyay**, Bimal K. Banik, "Novel Synthetic Modification of β -Estradiol", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.

- 57) Mohamed Hashim, **Debasish Bandyopadhyay**, Bimal K. Banik, "A Novel Route toward Enantioselective Synthesis of Anticancer β -Lactams", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 56) Jesus A. Cantu, **Debasish Bandyopadhyay**, Bimal K. Banik, "A Novel Route toward the Synthesis of Heteroaromatics from Dicarboxyl Precursors", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 55) Katherine Ramos, **Debasish Bandyopadhyay**, Bimal K. Banik, "A Novel Route for the Synthesis Polyaromatic Anticancer Compounds", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 54) Mayra Abundis, **Debasish Bandyopadhyay**, Bimal K. Banik, "A "Green" Approach for the Synthesis of Novel Heterocycles", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 53) Luis Canales, **Debasish Bandyopadhyay**, Bimal K. Banik, "Synthetic modifications on Eugenol: A Medicinally Important Clove Oil Component", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 52) **Debasish Bandyopadhyay**, Gildardo R. Sánchez, Andrea E. Kall, Bimal K. Banik, "An Easy Access for the Synthesis of Phthalimido β -Lactams from Polyaromatic Imines", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 51) **Debasish Bandyopadhyay**, Sonya Rivera, Bimal K. Banik, "Highly Efficient "Green" Synthesis of Pyrroles", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 50) Selina Samano, **Debasish Bandyopadhyay**, Bimal K. Banik, "An Efficient Route for the Synthesis of Benzimidazoles", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 49) Angela Thomas, **Debasish Bandyopadhyay**, Bimal K. Banik, "An Exploratory Nitration and Reduction Study of Chrysene: Intermediates for the Synthesis of Novel Anticancer Agents", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 48) Carlos Camares, **Debasish Bandyopadhyay**, Bimal K. Banik, "An Easy Access for the Synthesis of Novel Anticancer Agents", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 47) Lariza Rodriguez, R. Christopher Gonzales, **Debasish Bandyopadhyay**, Bimal K. Banik, "Ceric Ammonium Nitrate Induced *N*-Deacetylation of β -Lactams: A Route for the Synthesis of Azepinoindole", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 46) Leisha Chee, Erica Cuate, **Debasish Bandyopadhyay**, Bimal K. Banik, "Bismuth Nitrate Catalyzed Cascade Michael Addition/Reduction of Indoles", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.

- 45) Raquel Galvez, Eric Gonzalez, **Debasish Bandyopadhyay**, Bimal K. Banik, "Stereoselective Synthesis of Novel β -Lactams", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 44) Stephanie Maldonado, Antonio Reyna, **Debasish Bandyopadhyay**, Bimal K. Banik, "Stereoselective Synthesis Novel Indole fused β -Lactams", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2009.
- 43) Gildardo Rivera, Orlando Esparza, **Debasish Bandyopadhyay**, Bimal K. Banik "Novel Nitration of β -Estradiol by Metal Nitrates", Presented at the UTSA Science Conference, San Antonio, TX, August, 2009.
- 42) Jesus A. Cantu, King J. Pascual, R. Christopher Gonzales, **Debasish Bandyopadhyay**, Bimal K. Banik "An Easy and Straightforward Route for the Synthesis of Disubstituted Imidazoles", Presented at the UTSA Science Conference, San Antonio, TX, August, 2009.
- 41) Luis Canales, Lariza Rodriguez, **Debasish Bandyopadhyay**, Bimal K. Banik "Synthetic Studies on Naturally Occurring Eugenol", Presented at the UTSA Science Conference, San Antonio, TX, August, 2009.
- 40) Eric Gonzalez, Raquel Galvez, **Debasish Bandyopadhyay**, Bimal K. Banik "Radical-Mediated Reactions Toward Polycyclic β -Lactams", Presented at the UTSA Science Conference, San Antonio, TX, August, 2009.
- 39) Antonio Reyna, Stephanie Maldonado, **Debasish Bandyopadhyay**, Bimal K. Banik "Synthesis of Polyaromatic β -Lactams Using Diethyl Ketomalonate", Presented at the UTSA Science Conference, San Antonio, TX, August, 2009.
- 38) Mohamed I. Hashim, Juliana M. Velazquez and **Debasish Bandyopadhyay**, Bimal K. Banik "Synthesis of Vinyl- β -Lactams via Staudinger Cycloaddition Reaction Derived from Polyaromatic Imines and Unsaturated Acid", Presented at the UTSA Science Conference, San Antonio, TX, August, 2009.
- 37) Erica Cuate, Katherine Ramos, **Debasish Bandyopadhyay**, Bimal K. Banik "Bismuth Nitrate-Induced Remarkable Synthesis of Quinoxalines", Presented at the UTSA Science Conference, San Antonio, TX, August, 2009.
- 36) Mayra Abundis, Angela Thomas, **Debasish Bandyopadhyay**, Bimal K. Banik "Bismuth nitrate-catalyzed Microwave-induced Synthesis of novel phenthrolinone derivatives", Presented at the UTSA Science Conference, San Antonio, TX, August, 2009.
- 35) Dina Abrego, Carlos Carames, **Debasish Bandyopadhyay**, Bimal K. Banik "Indium-catalyzed Synthesis of Pyrrole-substituted Indolinones", Presented at the UTSA Science Conference, San Antonio, TX, August, 2009.
- 34) Andrea Kall, Leisha Chee, **Debasish Bandyopadhyay**, Bimal K. Banik, "Microwave Induced Aza-Michael Reaction in Water: A Remarkably Simple Procedure", Presented at the UTSA Science Conference, San Antonio, TX, August, 2009.

- 33) Selina Samano, **Debasish Bandyopadhyay**, Bimal K. Banik, "Bismuth Nitrate-Catalyzed Microwave-Induced Synthesis of Novel Imidazoles", Presented at the UTSA Science Conference, San Antonio, TX, August, 2008.
- 32) Mohamed Hashim, **Debasish Bandyopadhyay**, Bimal K. Banik, "Cycloaddition Reaction Toward Vinyl β -Lactams", Presented at the UTSA Science Conference, San Antonio, TX, August, 2008.
- 31) Jerome Escano, **Debasish Bandyopadhyay**, Bimal K. Banik, "Lewis acid catalyzed Alkylation of Alcohols With Dicarbonyl Compounds", Presented at the UTSA Science Conference, San Antonio, TX, August, 2008.
- 30) Sonya Rivera, **Debasish Bandyopadhyay**, Bimal K. Banik, "Synthetic Studies on Bis Aza Indoles", Presented at the UTSA Science Conference, San Antonio, TX, August, 2008.
- 29) Laura Igelesias, **Debasish Bandyopadhyay**, Bimal K. Banik, "Bismuth Nitrate-catalyzed Synthesis of Bis Indoles", Presented at the UTSA Science Conference, San Antonio, TX, August, 2008.
- 28) Cynthia Miranda, **Debasish Bandyopadhyay**, Bimal K. Banik, "Glycosylation of Nitro Estrone", Presented at the UTSA Science Conference, San Antonio, TX, August, 2008.
- 27) Andrea Kall, **Debasish Bandyopadhyay**, Bimal K. Banik, "Microwave-Induced Aza-Michael Reaction in Water: A Remarkable Simple Procedure", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2008.
- 26) Angela Thomas, **Debasish Bandyopadhyay**, Bimal K. Banik, "Bismuth Nitrate-Induced Novel Nitration of Estradiol", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2008.
- 25) Antara Banik, Sahil Batta, **Debasish Bandyopadhyay**, Bimal K. Banik, "Bismuth Nitrate-Catalyzed Easy and Highly Efficient Route for the Synthesis of Medicinally Important α -Amino Phosphonates", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2008.
- 24) R. Christopher Gonzales, **Debasish Bandyopadhyay**, Bimal K. Banik, "Oxidative *N*-Deanisylation of β -Lactams: A Convenient Access Toward Bioactive Azepinoindole Derivatives", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2008.
- 23) **Debasish Bandyopadhyay**, Andrea Kall, Bimal K. Banik, "An Extremely Efficient Green Synthesis of β -Aminoketones", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2008.
- 22) **Debasish Bandyopadhyay**, Bimal K. Banik, "Ruthenium (III) Chloride-Induced Easy Synthesis of Novel Heterocycle-Substituted Indolinones", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2008.

- 21) **Debasish Bandyopadhyay**, Bimal K. Banik, "Stereoselective Synthesis of Double β -Lactams as Potent Anticancer Agents", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2008.
- 20) **Debasish Bandyopadhyay**, Bimal K. Banik, "Bismuth Nitrate-Induced Extremely Easy and Straightforward Synthesis of Quinoxalines", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2008.
- 19) Jerome Escano, **Debasish Bandyopadhyay**, Bimal K. Banik, "Bismuth Salts-Catalyzed Michael Addition of Benzyl Alcohols to 1, 3-Di-Keto Compounds", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2008.
- 18) Monica M. Javier, **Debasish Bandyopadhyay**, Bimal K. Banik, "Synthesis of 3-Heterosubstituted Anticancer β -Lactams", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2008.
- 17) Cynthia Miranda, A. Bose, **Debasish Bandyopadhyay**, Bimal K. Banik, "Novel Glycosylation of Estrone", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2008.
- 16) Erica Cuate, Chhabi Choudhary, **Debasish Bandyopadhyay**, Bimal K. Banik, "Novel Synthesis of Unusual *bis*- β -Lactams", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2008.
- 15) Katherine Ramos, **Debasish Bandyopadhyay**, Bimal K. Banik, "Bismuth Nitrate-Induced Novel Nitration of 9-Bromophenanthrene: Approach Toward Unusual Polycyclic Aromatic Hydrocarbon", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2008.
- 14) Laura Iglesias, Sonya Rivera, **Debasish Bandyopadhyay**, Bimal K. Banik, "Microwave-Induced Bismuth Nitrate-Catalyzed Expeditious Synthesis of Bis Indoles Under Solventless Conditions", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2008.
- 13) Mohamed Hashim, **Debasish Bandyopadhyay**, Bimal K. Banik, "A Novel Synthetic Approach Toward Enantioselective Anticancer β -Lactams", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2008.
- 12) Selina Samano, Yvette Mora, **Debasish Bandyopadhyay**, Bimal K. Banik, "Microwave-induced Synthesis of Disubstituted Imidazoles", Presented at the HESTEC Annual Meeting, Edinburg, TX, September, 2008.
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