



## DR. BASKHEMLANG KSHIAR

### ACADEMIC QUALIFICATIONS:

#### PhD

**TITLE OF THESIS:** “Applications of Multicomponent Reactions (MCRs) for the Synthesis of Some Important *N*-Heterocycles and Other Related Compounds”

**University:** North-Eastern Hill University, Shillong.

#### M.Sc (Chemistry)

**University:** North-Eastern Hill University, Shillong.

### OTHER QUALIFICATIONS:

**National Eligibility Test for Lectureship: Joint CSIR-UGC, NET-JRF**

### PUBLICATIONS:

1. Trifluoroacetic Acid-Mediated Oxidative Self-Condensation of Acetophenones in the Presence of SeO<sub>2</sub>: A Serendipitous Approach for the Synthesis of Fused [1,3]Dioxolo[4,5-*d*][1,3]dioxoles  
Ibakyntiew D. Marpna, O. Risuklang Shangpliang, Kmendashisha Wanniang, **Baskhemlang Kshiar**, Tyrchain Mitre Lipon, Badaker M. Laloo, Bekington Myrboh  
*ACS Omega* **2021**, *6*, 14518–14524.
2. PTSA-Catalyzed Reaction of Alkyl/Aryl Methyl Ketones with Aliphatic Alcohols in the Presence of Selenium Dioxide: A Protocol for the Generation of an  $\alpha$ -Ketoacetals Library  
O. Risuklang Shangpliang, Kmendashisha Wanniang, **Baskhemlang Kshiar**, Ibakyntiew D. Marpna, Tyrchain Mitre Lipon, Pushpak Mizar, and Bekington Myrboh  
*ACS Omega* **2019**, *4*, 6035-6043.

3. A three component one-pot synthesis of *N*-amino-2-pyridone derivatives catalyzed by KF-Al<sub>2</sub>O<sub>3</sub>  
**Baskhemlang Kshiar**, O. Risuklang Shangpliang, Bekington Myrboh  
*Synthetic Communications* **2018**, 48, 14, 1816-1827.
4. Selenium Dioxide As an Alternative Reagent for the Direct  $\alpha$ -Selenoamidation of Aryl Methyl Ketones  
O. Risuklang Shangpliang, **Baskhemlang Kshiar**, Kmendashisha Wanniang, Ibakyntiew D. Marpna, Tyrchain Mitre Lipon, Badaker M. Laloo, and Bekington Myrboh  
*Journal of Organic Chemistry* **2018**, 83, 10, 5829-5835.
5. L-Proline as an efficient enantioinduction organo-catalyst in the solvent-free synthesis of pyrazolo[3,4-*b*]quinoline derivatives via one-pot multi-component reaction  
Deboshikha Bhattacharjee, **Baskhemlang Kshiar**, Bekington Myrboh  
*RSC Advances* **2016**, 6, 95944-95950.

**SEMINARS/WORKSHOPS/FDPs, ETC. ATTENDED:**

1. Attended the *34th Orientation Programme, 25<sup>th</sup> January 2016 – 21<sup>st</sup> February 2016*, UGC-HRDC, NEHU, Shillong.
2. Attended a “*Regional Workshop on Research Based Pedagogical Tools*,” **27<sup>th</sup> - 29<sup>th</sup> July 2017**, Department of Chemistry, NEHU in collaboration with COSME, IISER Pune.
3. Attended a *Refresher Course in Disaster Management*, **12<sup>th</sup> November 2018 – 2<sup>nd</sup> December 2018**, UGC - HRDC, NEHU, Shillong.
4. Attended an *Online Refresher Course in Chemistry for Higher Education Faculty (ARPIT – 2019)*, **1<sup>st</sup> September – 31<sup>st</sup> December 2019**, Swayam, S.G.T.B. Khalsa College, University of Delhi.
5. Attended an *Online Science Leadership Workshop*, **22<sup>nd</sup> June – 28<sup>th</sup> June 2020**, Central University of Punjab, Bathinda.

6. Attended an *Online Two - Week Interdisciplinary Refresher Course/Faculty Development Programme On "Advanced Research Methodology"*, **20<sup>th</sup> August 2021 – 3<sup>rd</sup> September 2021**, Teaching Learning Centre (PMMMNMSTT), Ramanujan College, University of Delhi.
7. Attended a *Refresher Course in Material Science and Nanotechnology*, **24<sup>th</sup> September 2021 – 8<sup>th</sup> October 2021**, UGC - HRDC, NEHU, Shillong.
8. Attended an *Online Elementary FDP on "Biomass to fuels, Chemicals and value-added products for sustainable energy and environmental future"*, **20<sup>th</sup> - 24<sup>th</sup> December 2021**, AICTE Training and Learning (ATAL) Academy, National Institute of Technology Tiruchirappalli.
9. Attended a *National Webinar on 'Scintillating Chemistry'*, **28<sup>th</sup> June 2020**, Association of Chemistry Teachers (ACT), c/o Homi Bhabha Centre for Science Education (TIFR), Mumbai.
10. Attended a *National Convention of Chemistry Teachers 2020 (NCCT 2020) and an International Webcon on Recent Advances in Chemistry Education and Chemical Research*, **29<sup>th</sup> November – 1<sup>st</sup> December 2020**, Association of Chemistry Teachers (ACT), c/o Homi Bhabha Centre for Science Education (TIFR), Mumbai.
11. Attended a *Webinar: Meet the Editor Online: ChemComm*, **14<sup>th</sup> July 2020**, Royal Society of Chemistry, Cambridge.
12. Attended a *Webinar: Meet the Editor Online: RSC Advances*, **15<sup>th</sup> September 2020**, Royal Society of Chemistry, Cambridge.
13. Attended a *Webinar: Meet the Editor Online: RSC Medicinal Chemistry*, **2<sup>nd</sup> November 2020**, Royal Society of Chemistry, Cambridge.
14. Attended a *Webinar: 2020 ChemComm Emerging Investigator Lectureship Winner*, **9<sup>th</sup> February 2021**, Royal Society of Chemistry, Cambridge.
15. Attended a *Webinar: RSC Desktop Seminar Lectureship Series with JAAS*, **18<sup>th</sup> February 2021**, Royal Society of Chemistry, Cambridge.
16. Attended a *2020 ChemSocRev Pioneering Investigator Lectureship Winner*, **22<sup>nd</sup> April 2021**, Royal Society of Chemistry, Cambridge.
17. Attended a *Webinar: Beyond Organic Solvents: Synthesis of a 5-HT<sub>4</sub> Receptor Agonist in Water*, **17<sup>th</sup> September 2020**, American Chemical Society.

18. Attended a *DST & ACS Workshop*, **30<sup>th</sup> October 2020**, American Chemical Society.
19. Attended a *Webinar: Managing the Life of an Early Career Researcher*, **11<sup>th</sup> November 2020**, American Chemical Society.
20. Attended a *Webinar: Chemistry and the Economy: 2021 Outlook*, **12<sup>th</sup> November 2020**, American Chemical Society.
21. Attended a *Webinar: Here Comes the Sun: Advances in Solar Power*, **17<sup>th</sup> November 2020**, American Chemical Society.
22. Attended a *Webinar: Working Together to Design Safer Laboratories*, **8<sup>th</sup> July 2021**, American Chemical Society.
23. Attended a *Webinar: Making the Most Out of Your Ph.D. Journey: Research, Skills, and The Great Beyond*, **14<sup>th</sup> July 2021**, American Chemical Society.
24. Attended a *Webinar: Expanding Your Opportunity Abroad: The Fulbright U.S. Scholar Program*, **15<sup>th</sup> July 2021**, American Chemical Society.
25. Attended a *Webinar: Best of ChemEd 2021*, **27<sup>th</sup> – 29<sup>th</sup> July 2021**, American Association of Chemistry Teachers (AACT).
26. Attended a *Webinar: New Education Policy 2020: Impact on India's Higher Educational Institutions*, **1<sup>st</sup> September 2021**, American Chemical Society.
27. Attended a *Webinar: The Green Evolution: Sustainable Chemistry in Global Scholarly Education*, **9<sup>th</sup> September 2021**, American Chemical Society.
28. Attended an *ACS Science Talks: Virtual Lecture Series*, **3<sup>rd</sup> December 2021**, American Chemical Society.
29. Attended a *Webinar: Science, Technology and Innovation: Key Drivers for Aatmanirbhar Bharat*, **23<sup>rd</sup> December 2021**, American Chemical Society.
30. Attended an *ACS Science Talks: Virtual Lecture Series*, **22<sup>nd</sup> January 2022**, American Chemical Society.
31. Attended a *Webinar: Zebras or Horses? How a False Sense of Security Can Lead to Lab Accidents*, **9<sup>th</sup> February 2022**, American Chemical Society.

32. Attended a *Virtual Conference on Education in the 21<sup>st</sup> Century: Adapting to a Changing World*, **1<sup>st</sup> – 2<sup>nd</sup> June 2020**, St. Anthony's College, Shillong, Meghalaya.
33. Attended a *Live Webinar on Changing Roles of Teachers in a COVID-19 Afflicted World*, **12<sup>th</sup> June 2020**, St. Anthony's College, Shillong, & Loyola College, Williamnagar, Meghalaya.
34. Attended a *Five-day Online Faculty Development Programme (FDP) on Online Pedagogical Tools and Techniques and Blended learning*, **8<sup>th</sup> – 12<sup>th</sup> September 2020**, St. Anthony's College, Shillong, Meghalaya.
35. Attended a *Workshop on Documentation – Data Collection and Data*, **17<sup>th</sup> December 2020**, St. Anthony's College, Shillong, Meghalaya.
36. Attended a *National Webinar on National Education Policy 2020 and Its Implication on Higher Education*, **7<sup>th</sup> April 2021**, St. Anthony's College, Shillong, Meghalaya.
37. Attended an *International Webinar on Continuing Professional Development for Teachers*, **17<sup>th</sup> – 18<sup>th</sup> September 2020**, Sankardev College, Shillong, Meghalaya.
38. Attended a *National Level Webinar on "Recent Advances in Nanomaterials Based Pesticides Sensor"*, **4<sup>th</sup> December 2020**, Union Christian College, Umiam Khwan, Meghalaya.

## PRESENTATIONS IN SEMINARS, WORKSHOPS, CONFERENCES AND OTHERS:

1. Presented a Paper titled “**Utility of Cyanoacetic Hydrazide in the Synthesis of Benzylidene-2-cyanohydrazides: Facile Intermediates in Heterocyclic Synthesis**” in the “*National Conference on Contemporary Developments in Chemical Sciences (CDCS-2015)*”, **23<sup>rd</sup> – 24<sup>th</sup> November, 2015**, Department of Chemical Sciences, Tezpur University, Tezpur, Assam.
2. Presented a Paper titled “**Synthesis, Characterization and Applications of N'-Benzylidene-2-Cyanoacetohydrazides**” in the “*20<sup>th</sup> CRSI National Symposium in Chemistry (CRSI-NSC-2017)*”, **3<sup>rd</sup> – 5<sup>th</sup> February, 2017**, Department of Chemistry, Gauhati University, Guwahati, Assam.

## WORKSHOPS, SEMINARS AND OTHERS ORGANISED AND CO-ORDINATED:

1. Member Organising Committee: *International Conference on Chemistry and its Diversities – 2016 (ICCD – 16)*, **24<sup>th</sup> - 25<sup>th</sup> November 2016**, Department of Chemistry, St. Anthony's College, Shillong.
2. Member Organising Committee: *Annual S. N. Pal Memorial Lecture 2018 on the topic “Energy Conservation”*, **7<sup>th</sup> April, 2018**, Department of Chemistry, St. Anthony's College, Shillong.
3. Member Organising Committee: *Annual S. N. Pal Memorial Lecture 2019 on the topic “Liquid Crystals”*, **18<sup>th</sup> April, 2019**, Department of Chemistry, St. Anthony's College, Shillong.
4. Member Organising Committee: *Annual S. N. Pal Memorial Lecture 2020 on the topic “Understanding the Basic Concepts of Nanomaterials”*, **11<sup>th</sup> December 2020**, Department of Chemistry, St. Anthony's College, Shillong.
5. Member Organizing Committee: *National Webinar on “Natural Products: Their Importance and Applications”* held on **27<sup>th</sup> November, 2021**, Department of Chemistry, St. Anthony's College, Shillong.