

MEDITERRANEAN JOURNAL OF CHEMISTRY

ATHAR ATA

Department of Chemistry, Michigan Tech, 1400 Townsend Drive, Houghton, MI 49931

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Employment

Chair, Department of Chemistry, Michigan Tech, Houghton, MI	2023-
Professor (Tenured), Department of Chemistry, Michigan Tech, Houghton, MI	2023-
Chair, Department of Chemistry, University of Winnipeg	2015-2023
Visiting Professor of Chemistry, Ohio Dominican University, Columbus, OH	2021-2022
Professor (Tenured), Department of Chemistry, University of Winnipeg	2001-2023
Adjunct Professor, Department of Chemistry, University of Manitoba	2002-2021
Adjunct Professor, International Centre for Chemical and Biological Science University of Karachi, Karachi, Pakistan	2018-2023
Visiting Professor, Department of Chemistry, Bradley University, Peoria, IL	2008-2009
Research Assistant Professor, Department of Chemistry and Biochemistry, Florida Atlantic University, Boca Raton, FL	2000-2001
Postdoctoral Research Associate, Department of Chemistry and Biochemistry, Florida Atlantic University, Boca Raton, FL	1998-2000
Assistant Professor, Petroleum and Petrochemicals Research Institute, King Abdulaziz City for Science and Technology, Riyadh, Saudi Arabia	1997-98
Research Officer, H.E.J. Research Institute of Chemistry, University of Karachi, Karachi, Pakistan	1995-1997

Education

PhD (Chemistry), University of Karachi, Karachi, Pakistan	1996
MSc (Chemistry), University of Agriculture, Faisalabad, Pakistan	1989
BSc University of Karachi, Karachi, Pakistan	1987

Administrative Work at the University of Winnipeg

Departmental Level Committee Work

Department Personnel Committee
Department Review Committee
Visiting Lecturer Committee
Instrumental Committee
Curriculum Committee,
Community Outreach Committee
Search Committees for Chemistry
Student Award Committee,
Ad Hoc Committee on Graduate Studies
Department Research Committee
Lab Fee Spending Committee
Lab Teaching Evaluation Committee
Red River College, Joint Program

University Level Committee Work

Coordinator, Biochemistry Program
Faculty Appeal Committee
Curriculum Planning Committee

Teaching Development Committee
Distinguished Lecture Committee
Academic Standards Committee
UW Radiation Safety Committee
Senate
Senate Executive
Senate Budget Review Committee
Senate Nominating Committee
Ad Hoc Committee on the Senate Standing Rules
Study Leave Committee
Faculty and Staff Award Committee
Faculty Tenure and Promotion Committee
Dean Search Committee
Science Chair Council
Academic Misconduct Appeal Committee
University of Winnipeg Faculty Association
Board of Regents
TPCAC

Selected Professional Related Activities

Funding raising for Department of Chemistry scholarships and events (over \$80,000) 2015-2019
Organized the Canadian Institute of Chemistry (CIC) AGM at the University of Winnipeg in June 2003
Arranged to collect funds for the CIC Student Award Night held at the University of Winnipeg in October 2003
Organized CIC AGM at the University of Winnipeg in August 2005
Treasurer, Biological and Medicinal Chemistry, Canadian Society of Chemistry 2006-2007
Member, Organizing Committee, 10th International Symposium on Natural Product Chemistry, January 2006, Karachi
Fund raising (\$ 10,000) for symposia in Biological and Medicinal Chemistry Division, Canadian Society of Chemistry 2006-2007.
Member of Organizing Committee, 90th Canadian Society of Chemistry Conference, May 2007, Winnipeg.
Member, International Advisory Committee, The First Conference on Science Diplomacy and Developments in Chemistry, November 2012, Egypt
Member, International Advisory Committee, 4th International Symposium-cum-Training Course on Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi, Pakistan, January, 2013
Member, International Advisory Committee, First International Conference for Biochemical and Chemical Sciences, University of Agriculture, Faisalabad, Pakistan, February 24-26, 2014
Member, International Advisory Committee, 1st International Conference on Advancements in Biotechnology, Government College for Women University, Faisalabad, Pakistan, March 2016
Member Advisory Committee, Manitoba Chemistry Symposium Series, Winnipeg, MB, 2018-

Teaching Activities:

Undergraduate Courses:

Organic Chemistry; Organic Synthesis; Spectroscopy: Structure Determination of Organic Compounds; Inorganic Chemistry II: Coordination and Organometallic Chemistry; Synthetic Organic Medicinal Chemistry; Reaction Mechanisms; Medicinal Chemistry; Research Project in Chemistry; Directed Studies in Chemistry

Graduate Courses:

Florida Atlantic University

Synthesis and Characterization of Organic Compounds

University of Manitoba

Total Synthesis of Natural Products; Synthetic Organic Medicinal Chemistry; MS and NMR
Characterization of Natural Products

Students supervised:

Students supervised for undergraduate research:

- 2001 Hla Y. Win
- 2002 Jason Nachtigall, David Holt, Joe Ackerman, Mark Mcansoy
- 2003 Peter Wojeiechowski, Leigha Conci, Navtej Dhaliwal, Orysia Zaporozan, Ammanda Lambrecht
- 2004 Shabnam Bashiri, Tim McDowell, Jordon Betteridge, Courtney Didduck,
Leif Larsen, Steve Towski
- 2005 Chiomi Sasaki, Emmanuel Schaub, Zhang Wong, Yang Liu, Robert Vanderchili, Annu Arora,
Younas Negasi, Younathan Gebrekidan
- 2006 Emilie Coudiere, Chad Inverson, Drew Harwanik, Nathan Mbong
- 2007 Stephanie Van Den Bosch, Elikana Gale, Grant Pidwinski, Tina Khoury
- 2008 Laura Marginet, Elena Bykova,
- 2009 Daniel Kozra, Cheuk Lam, Wing Lau, David Grace, Xiang Li, Yang Li, Jacelyn Tan
- 2010 Tyler Atichson, Aboud Zaid, Demaris Tan, Ursula Hrysio, William Rings
- 2011 Caitlin Bartel, Sear Noodrat, Irena Kovacevic, Jacob Koir, Andrew Wakeman, Eyobe Asus,
Breanne Berg
- 2012 Keara Haswell, Eugene Balashovets, Katherina Singh Kang, Jaisal Parshotam, Jennifer Bao
- 2013 Mike Myschyshyn, Joshua Ferguson, Robyn Thorington, Robert Emes, Jessica Parshotam, Alla
Pyrryma, Jingfang Zhao, Tharmini Rathinagopal,
Tasnim H. Beacon, Vivin S. Zacharia
- 2014 Ian A McAmmond, Maria K. E. Palazo, Samar Mraiza, Patrick O. Bello, Alex Hutfluss, Matthew
Wiebe, Matthew M. Levesque, Kevin Sharma, Steven Reda, Anju Aravind
- 2015 Andrea Dypiangco, Alejandro A. Luchoni, Ande Che, Mandeep Brar, Rachel William, Jenella
L.Co,
- 2016 Fernando Esposito, Regine Ayano Abseyinghe, Josh H. Korla, Rajprit Sidhu, Aviegaille B.
Icban, Joseph Maiko Soriano, Jake J. Blackner, Ryan M. Cantor, Joseph Maiko Soriano,
Anthony I. Okeke, Salfee Bhathal
- 2017 Lucy Wong, Navjot Kaur, Alissa Yangirov, Ivander Singh, Andres Garcia Fiola, Aiyub Haidar
- 2018 Becklu Negash, Chimonosa Njkou, Michael Allieu, Andrew Fast, Jessica Fries, Emma Wolf,
Oluwatobiloba Ajayi, Amandeep Jassal
- 2019 Spencer Ferbers, Harjot Sindhu, Mahida Ahmad, Chantal Dozois, Abram Neufeld, Gurleen
Cheema, Amandeep Jassal
- 2020 Anna Wade, Justine Bercier-eyer, Sabha Chandi, Shivani Sharma, Nathan Clatworthy, Cadie
Arbez-Rondeau. Ashley King, Thomas Manuel
- 2021 Jhanielle James, Sabha Chandi, Jashandeep Kaur, Shivani Sharma, Anna wade, Chris-Tiann
Roberts, Lwam H. Kidane
- 2022 Ruhi Akhter, Sumaiya Abas, Deepkanwal Thind, Arshdeep Warha, Liu Kwan Nok, Hannah
Cole, Dhaya Shankaran P, Camille Faure, Shivi Goyal, Mystica Amonnyi, Sarah Thmopson,
Navjot Kaur Rai, Amamda Remmetter
- 2023 Melissa Harward, Marcela Collaguazo, Jibril Hussein, Corey Vaughn Daryl Sanderson, Biement
Abera Beiment Abera, Manav Desai

Research Technicians

April Mcelrea, Abin James and Jemima Manual

Supervision of Graduate Students (M.Sc./Ph.D.)

Student Graduated

- 2005 Zaheer Uddin Babar
- 2007 Chibuike Udenigwe, Sarfraz Akhtar, Jordan Bettridge
- 2008 Drew Hawranik, Kosmulalage S. Kalhari
- 2009 Shams-ul-Haq Zahid
- 2010 Wadim Matochko, Chad Iverson
- 2011 Anthony Agomuoh, Ahmed Shoqafi
- 2012 Cheuk Wing Lam
- 2013 Uvarani Chokkalingam
- 2014 Nadia Asif, Manal AlMalki
- 2015 Madiha Sahar Khan, Chandra Prakash, Madiha Riasat, Talent Makhanya
- 2017 Madelyn N. Moawad, Thangaraj Arasakumar, Mohamed S. M. A. E. Hafez
- 2018 Rehab Ahmed
- 2019 Onyema T. Chukwubuka, Aneesa
- 2020 Aisha Majeed, Sania Izhar
- 2021 Hadeel Alhazmi, Samantha Tinkler
- 2022 Renaud Arousseau
- 2024 Simran Sidhu (writing her thesis)

Graduate Student Supervision in Progress

Following Three Graduate Students are admitted at Michigan Tech to work in my Lab

2024: Jiji Mideksa, Raahim Ali; Mehul Tiwari

Postdoctoral Fellows and Visiting Scientists:

- 2023 Dr. Peter Edjidike
- 2018 Dr. seyed Abdulmajid Ayatollahi
- 2010 Dr. Julius K.Adesanwo
- 2008 Dr. Nighat Sultana
- 2007 Dr. Muhammad Qaisar and Dr. Muhammad Zubair
- 2006 Dr. Haq Nawaz Bhatti
- 2004 Dr. Radhika Samarasekera and Dr. K.D. P. Hemalal
- 2003 Dr. Amal M. Youssef
- 2002 Dr. Ilkay Orhan

Served as Member of PhD Advisory/Examination Committee (60 students at the following universities)

University of Manitoba, Winnipeg, MB
University of Saskatchewan, Saskatoon, SK
University of Wollongong NSW, Australia
University of Technology, Selangor, Malaysia
Bharathiar University, Coimbatore, Tamil Nadu, India
Indian Institute of Technology Kharagpur, India
Anna University, Chennai, India
Durban University of Technology, Durban, South Africa
Khyber Pukhunkhwa Agriculture University, Peshawar, Pakistan
Islamia University, Bhawalpur, Pakistan
University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan
Federal Urdu University of Science and Technology, Karachi, Pakistan
University of Peshawar, Peshawar, Pakistan

RESEARCH GRANTS AWARDED

Natural Product Chemistry Research, (\$100,000), Michigan Tech, Houghton MI (PI A. Ata)
Centre for Molecular Determination, (\$ 300,000), Canadian Foundation of Innovation, (PIs J. Ritch, A. Ata and C. Wiebe) 2022-2023.

Phytochemical Studies on Medicinally Important Plants (\$ 45,000), Natural Science and Engineering Research Council, Canada-Discovery Development Grant (PI A. Ata), 2020-23.

Phytochemical Studies on Medicinally Important Plants (\$5,000), The University of Winnipeg Grant (PI A. Ata), 2020.

Mass Spectrometer for use in Chemistry Research at the University of Winnipeg (\$ 121,000), Natural Science and Engineering Research Council, Canada Research Tool and Instrument Grant, (PI A. Ata), 2019.

Mass Spectrometry of Bioactive Natural Products (\$7,500), Major Research Grant, University of Winnipeg (PI A. Ata), 2019.

First Manitoba Chemistry Symposium (\$ 2000), Conference Grant, University of Winnipeg (PI A. Ata), 2018.

Instruments for Department of Chemistry (\$ 1,000,000), Lab Fee Grants and Industrial Partnerships Grant (PI A. Ata), 2015-2019.

Novel Enzyme Inhibiting Natural Products from Aboriginal Medicinal Plants of Manitoba and Their Chemo-Enzymatic Synthesis (\$ 2000), Travel Grant, University of Winnipeg (PI A. Ata), 2016.

Phytochemical Studies on Medicinally Important Plants (\$ 140,000), Natural Science and Engineering Research Council, Canada-Discovery Grant (PI A. Ata), 2015-2020.

Exploiting the Benefits of Conifer of Fungal Endophytes, (\$ 29,000), Manitoba Hydro Forest Enhancement Program, MB (PIs A. Ata and P. Holloway), 2014-2016.

Phytochemical Studies on Medicinally Important Plants (\$ 26,000), Natural Science and Engineering Research Council, Canada-Discovery Grant (PI A. Ata), 2014.

Development of UV-VIS-NIR Spectrophotometry Technique for Wine Chemical Analysis (\$25,000), Natural Science and Engineering Research Council, Canada-Engage Grant (PI A. Ata), 2014.

Exploiting the Benefits of Conifer of Fungal Endophytes, (\$ 29,542), Manitoba Hydro Forest Enhancement Program, MB (PIs: A. Ata and P. Holloway), 2012-2014

Identification of Bioactive Natural Products from Plants, (\$ 54,000) Manitoba Health Research Council (Current Name: Research Manitoba), MB (PI A. Ata), 2010-2011.

Phytochemical Studies on Medicinally Important Plants (\$ 27,000), Natural Science and Engineering Research Council, Canada-Discovery Grant (PI A. Ata), 2009.

400 MHz NMR for Chemistry Research (\$ 97,450), Natural Science and Engineering Research Council, Canada Research Tool and Instrument Grant, (PI A. Ata) 2008.

400 MHz NMR for Chemistry Research (\$ 150,000), University of Winnipeg, 2008

Fungal Catalysis of Marine Natural Product (US\$ 2,500), American Society of Pharmacognosy, USA (PI A. Ata) 2008.

Microbial Transformations of Bioactive Natural Products (\$10,000) Graduate Exchange Student Program, Ministry of Foreign Affairs and Trades, Government of Canada (PI A. Ata), 2008.

Discovery of New Pharmaceuticals From Medicinally Important Plants of Pakistan, (US\$ 10,000), Higher Education Commission of Pakistan, 2007.

Identification of Glutathione S-Transferase (GST) Inhibiting Natural Products from a Marine Soft Coral of Genus *Cladiella*, (\$ 2,500) American Society of Pharmacognosy (PI A. Ata), 2006.

Discovery of Bioactive Natural Products form the Flora of Manitoba (\$ 129,000), MAFRI, Government of Manitoba, (PIs: Holloway and A. Ata), 2006.

Microbial Transformation of Bioactive Natural Products (US\$ 2,500) American Society of Pharmacognosy USA (PI A. Ata), 2005.

Discovery of Anti-Malarial Natural Products (\$ 5,000), The University of Winnipeg (PI A. Ata), 2005.

Phytochemical Studies on Medicinally Important Plants, (\$125,000), Natural Sciences and Engineering Research Council, Canada-Discovery Grant (PI A. Ata), 2004-2008.

Discovery of New Pharmaceuticals from Medicinally Important Plants (\$ 3,000), The University of Winnipeg Major Internal Research Grant (PI A. Ata), 2004.

Microbial Transformation of Bioactive Natural Products (\$ 5,000), Pfizer Canada (PI A. Ata), 2004.

Synthesis of Hydroxyquinoline Derivatives, Aminohydroxy-chromene, Aminocoumarin and their Anti-bacterial Activities (\$ 750), The University of Winnipeg, Discretionary Grant (PI A. Ata), 2004.

Plants Natural Products Chemistry- A Drug Discovery Program (\$ 4,000), The University of Winnipeg Major Internal Research Grant, (PI A. Ata), 2003.

Travel Grant for ASP Meeting, (\$ 750), The University of Winnipeg, (PI A. Ata), 2003.

Microbial Transformations of Bioactive Sesquiterpenes (US\$ 2,500), American Society of Pharmacognosy, USA (PI A. Ata), 2003.

Microbial Transformation of Bioactive Marine Natural Products (US \$ 20,800/year), Cottrell College Science Award, Research Corporation, USA (PI A. Ata), 2002-2004.

Isolation of New Pharmaceutical Agents from South Asian Medicinal Plants (\$ 15,000), UW-CHIR (Canadian Institute of Health Research), (PIs:A. Ata and Co-PI- P. Hollway) 2002-2003.

Microbial Transformations of Pseudopterins-2002 Pfizer Summer Undergraduate Research Fellowship (US\$ 5,000), Pfizer corporation, USA (PI A. Ata), 2002.

Synthesis of Anti-inflammatory Agents (\$ 50, 000), Cronus Pharma, (PIs: A. Ata and Alaa S. Abd-el-Aziz), 2002-2003.

Discovery of Novel Anti-Microbial Agents, (\$ 1,400) Human Resources Canada, 2002.

Fungal Transformations of Marine Natural Products (\$ 5,000). The University of Winnipeg Major Internal Research Grant, (PI A. Ata), 2002.

Discovery of New Pharmaceutical Agents and Microbial Transformation of Bioactive Natural Products” (\$ 15,000) University of Winnipeg Start-up Grant, 2001.

Collection of Marine Microorganisms and Biosynthesis of Marine Natural Products” Funding for May 2002 Twelve days ship time aboard the R/V Bellows (US \$34,000), Florida Institute of Oceanography (PIs: R. Kerr and A. Ata), 2001.

Biosynthesis of Marine Natural Products, Funding for May 2001 Twelve days ship time aboard the R/V Bellows (US\$24,000), Florida Institute of Oceanography (PIs: R. Kerr and A. Ata), 2000.

Development of Plant-Based Pesticides (US \$ 50,000), Department of Science and Technology, Pakistan (PIs Atta-ur-Rahman, M. Iqbal Choudhary and A. Ata), 1996-1997.

Microbial Transformations of Bioactive Natural Products (US\$ 5000), Third World Academy of Sciences, Italy, (PI A. Ata), 1996.

INVITED LECTURES AT UNIVERSITIES

Department of Chemistry, Michigan Technological University, Houghton MI, April 15, 2023.

Department of Chemistry, Augusta University, Augusta, GA, February 16, 2023.

Department of Chemistry, University of Illinois, Normal, IL, USA Feb 2022

Department of Chemistry, University of Tennessee at Martin, TN, February 2020

Faculty of Science, Langara College, Vancouver, BC, May 2019

Faculty of Science, University of New Brunswick, NB, May 2017

Department of Chemistry, Eastern Tennessee State University, Johnson City, TN February, 2107

Akhuwat First University, Faisalabad Pakistan, January, 2017.
Department of Chemistry, Lahore University of Management Sciences, Lahore, Pakistan, February 2014.
Department of Chemistry, University of Faisalabad, Faisalabad, Pakistan, June 2013.
Department of Chemistry, Forman Christian College, Lahore, Pakistan, January 2011.
Department of Chemistry, University of Jordan, Amman, Jordan, October 2010.
Department of Applied Sciences, Papua New Guinea University of Technology, Lae, Papua New Guinea, December 2009.
Department of Chemistry, Cape Breton University, Sydney, NS, March 2009.
Department of Natural Sciences, Western New Mexico University, Silver City March 2008.
Department of Chemistry and Biochemistry, Bradley University, Peoria, IL, USA, April 2007.
Department of Chemistry, University of Arkansas, Fort Smith, AR, USA, April 2007.
Department of Chemistry, University of Peshawar, Peshawar, Pakistan, Jan 2006
Department of Chemistry, Allama Iqbal Open University, Islamabad, Pakistan, Jan. 2006.
H.E.J. Research Institute of Chemistry, International Institute for Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan, Dec. 2005.
Institute of Chemistry, Punjab University, Lahore, Pakistan, Dec. 2005.
Department of Chemistry, G.C. University, Faisalabad, Pakistan, Dec. 2005.
Department of Chemistry, Eastern Washington University, Cheney, WA, May 2004.
Department of Chemistry, University of Regina, Regina, SK, Canada, March 2004.
Department of Chemistry, Saint Xavier Francis University, NS, Canada Sept. 20, 2003.
Department of Chemistry, Purdue University Calumet, Hammond, IN, May 2003
Department of Chemistry, Acadia University, Wolfville, NS, Canada, March 10, 2003.
Department of Chemistry, University of Texas Pan American, Edinburg, TX, April 09, 2002.
Department of Chemistry, Minot State University, Minot, ND 58707, USA, March 2002.
Department of Chemistry, University of Agriculture, Faisalabad, Pakistan, February 2002.
Department of Chemistry, University of Manitoba, Winnipeg, MB, Canada, March 2002.
Department of Chemistry, The University of Winnipeg, Winnipeg, Canada, January, 2001.
Department of Chemistry, Lakehead University, Thunder Bay, Ontario, Canada, April, 2001.
Department of Chemistry, Florida Atlantic University, Boca Raton, FL-33431, USA, October 2000.
King Abdulaziz City for Science and Technology, Riyadh, Saudi Arabia, August 1997.

INVITED/PLENARY SPEAKER AT CONFERENCES

Natural Products and Pharmaceutical Industry, International Symposium Drug Discovery and Development, University of Agriculture, Faisalabad, Pakistan , 4-5 March 2024 .
Enzyme Inhibiting Natural Products from Medicinally Important Plants of Manitoba, Recent Advances in Photonics and Physical Sciences, Govt. College for Women University, Faisalabad, Pakistan, March 7-9, 2023.
Natural Products and Their Biomedical Applications, 3rd international conference on “Chemical and Pharmaceutical Sciences: New Trends in Medicinal & Pharmaceutical Chemistry, Lahore, Pakistan, January 29-31, 2020.
Bioactive Natural Products from Medicinally Important Plants, 3rd International Conference on Recent Innovation in Pharmaceutical Sciences, Riphah International University, Islamabad, Pakistan, March 13-14, 2019
Synthesis of Bioactive Heterocyclic Compounds, 1st International Conference on “Drug Discovery against Cancer and other Diseases (DDCD-2019), University of Swabi, Pakistan February 11, 12, 2019.

Plant Natural Product Chemistry and Drug Discovery, Current Approaches and Emerging Trends for the Development and Discovery of Drug, COMSATS Institute of Information Technology, Abbottabad, K.P.K., June 28-30, 2018.

Nature and Drug Discovery Program, International Conference on Chemical and Pharmaceutical Sciences: Recent Approaches and Applications, Lahore, Pakistan, January 17-19, 2018.

Natural Product Based Drug Discovery Program: Hopes and Disappointments, 28th National and 16th International Chemistry Conference on Global Challenges and Chemistry, Department of Chemistry, Federal Urdu University, Karachi, Pakistan Nov 20-22, 2017.

Plant Natural Product Chemistry and Pharmaceutical Industry: Hopes and Disappointments, Current Research in Chemical and Pharmaceutical Sciences, Department of Chemistry, Forman Christian College University, Lahore, Pakistan January 18-20, 2017.

Novel Enzyme Inhibiting Natural Products from Aboriginal Medicinal Plants of Manitoba and Their Chem-Enzymatic Synthesis. 29th International Symposium on the Chemistry of Natural Products (ISCNP-29) and the 9th International Conference on Biodiversity (ICOB-9), September 24-27, 2016, Izmir, Turkey.

Novel Biomedical Agents from Medicinally Important Plants and their Biosynthesis, International Conference on Biochemistry, Biotechnology and Biomaterials, University of Agriculture, Faisalabad, February 22-24, 2016.

Nature: A Source of New Lead Drug Candidate Molecules, First International Conference on Advancement on Biotechnology, Faisalabad, Pakistan, March 30-31, 2016.

Plants: A Source of New Lead Drug Candidate Molecules, **A. Ata**, 5th International Symposium-Cum-Training Course on Molecular Medicine and Drug Research (MMDR-5), January 12-15, 2015, Karachi, Pakistan.

Novel Bioactive Natural Products from Medicinally Important Plants, **A. Ata**, Exploring New Avenues in Medicinal Chemistry: Opportunities & Challenges, Jan. 21-23, 2015, Lahore, Pakistan.

Novel Biomedical Agents from Aboriginal Medicinally Important Plants of Canada, **A. Ata**, Drug Discovery and Therapy World Congress 2015, July 22-25, 2015, Boston, MA.

Anti-Diabetic Compounds from Medicinally Important Plants, First International Conference for Biochemical and Chemical Sciences, University of Agriculture, Faisalabad, Pakistan, February 24-26, 2014.

Plants: A Source of New Lead Drug Candidate Molecules, 14th Asian Symposium on Medicinal Plants, Spices and Other Natural Products, University of Karachi, Pakistan, December 9-12, 2013.

Natural Product Chemistry Based Drug Discovery. 4th International Symposium-cum-Training Course on Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi, Pakistan, January 07-10, 2013.

Lead Antimicrobial Compounds from Plants. 13th International Symposium on Natural Product Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Pakistan September 22-25, 2012.

Plants and Health Care system. The First Conference on Science Diplomacy and Developments in Chemistry, Alexandria, Egypt, November 24-26, 2012.

Natural Products with Enzyme Inhibitory Activities. 95th Canadian Society of Chemistry, Calgary, May 2012.

Naturally Occurring Enzyme Inhibitors and Their Pharmaceutical Applications. 50th Anniversary Meeting, Phytochemical Society of North America. Fairmont Orchid, Hawaii December 10-15, 2011.

Small Molecules and Their Importance in Pharmaceutical Industry. 10th International and 22nd National Chemistry Conference, University of Agriculture, Faisalabad, Pakistan November 21-23, 2011.

Natural Products and their Biomedical Applications. 12th International Symposium of Natural Product Chemistry, November 22-25, 2010, Karachi, Pakistan.

Naturally Occurring Enzyme Inhibitors and Their Pharmaceutical Applications. 11th Eurasia Conference on Chemical Sciences, October 6-10, 2010, Dead Sea, Jordan.

Novel GST Inhibiting Natural Products From Medicinally Important Plants. 6th Conference on Medicinal and Aromatic Plants of Southeast European Countries, Antalya, Turkey April 18-22, 2010.

Novel Bioactive Natural Products from Marine and Terrestrial Sources. 10th Eurasia Conference on Chemical Sciences, Manila, Philippines, January 2008.

GST and AChE Inhibiting Natural Products from Medicinally Important Plants . International Conference on Biodiversity and Natural Products (*ICOB-6 & ISCNP-26*), , Canada, July 13-18, 2008.

Novel Bioactive Natural Products from Marine and Terrestrial Sources. 9th Eurasia Conference on Chemical Sciences, Antalya, Turkey, September 09-13, 2006.

Novel Bioactive Natural Products form the Medicinally Important Plants of Manitoba. 10th International Symposium on Natural Products Chemistry, H.E.J. Research Institute of Chemistry at International Center for Chemical and Biological Sciences, Karachi, Pakistan January 06-10, 2006.

MEMBERSHIP

American Chemical Society

American Society of Pharmacognosy

Canadian Chemistry Society

Phytochemical Society of North America

The Chemical Society of Pakistan

International Union of Pure and Applied Chemistry

AWARDS

Clifford J. Robson Memorial Award for Excellence in Teaching 2007-2008

Best Scientist Award

9th Eurasia Conference on Chemical Sciences, Antalya, Turkey 2006

Best Mentor Award

Sanofi BioGENEius Challenge Canada (SBCC) (Manitoba) 2011-12

Exceptional Merit Award 2003-2019

University of Winnipeg

(Every year)

Cottrell College Science Award, Research Corporation, USA 2002-2004

Third World Academy of Sciences, Italy

Research Grant Award 1995-1996

University Grants Commission Scholarship, Pakistan 1992-1994

Bismillah Bibi Scholarship, Pakistan 1995-1996

Middle Standard Scholarship, Pakistan 1980-1981

Journal Referee

Journal of Natural Products, Tetrahedron Letters , Tetrahedron, Steroids, Bioorganic Medicinal Chemistry, Bioorganic Medicinal Chemistry Letters, Biochemical Systematics and Ecology, Canadian Journal of Chemistry, Canadian Journal of Microbiology, Natural Product Research,, Natural Product communications, Archive der Pharmazie, Heterocycles, European Journal of

Organic Chemistry, Journal of Chemical Ecology, Organic Letters, Letters in Organic Chemistry, Magnetic Resonance in Chemistry, Food Chemistry, Pharmaceutical Biology, Phytochemistry, Australian Journal of Chemistry, Central Journal of Chemistry, Current Medicinal Chemistry, Chemical Biology, Current Bioactive Compounds, Fitoterapia, Bioorganic Chemistry, Chemistry and Biodiversity, and Journal of Molecular Catalysis.

Member of Editorial Boards

Current Pharmaceutical Biotechnology (2017-Present)
Journal of Chemical Society of Pakistan (2007-Present)
Mediterranean Journal of Chemistry (2011-2018)
Journal Research and Reports in Biodiversity Studies (2010-2016)
Journal of Natural Pharmaceuticals (2010-2015)
Biotechnology (2005-2008)
Journal of Biological Sciences (2005-2008)
American Journal of Food Technology (2005-2008)

External Reviewer of Institutions/Grants

Canada Research Coordinating Committee: New Frontiers in Research Funds, Canada
Czech Science Foundation, Czech Republic
Foundation for Science and Technology, Portugal
National Science Foundation, USA
International Science Foundation, Sweden
Applied Scientific Research Fund, Jordan
Applied Scientific Research Fund, Jordan
Applied Scientific Research Fund, Jordan
Arab Science and Technology Foundation, UAE
Nipissing University
Lund University, Sweden
Purdue University Calumet, USA
NSERC
Canadian Foundation of Innovation
North Carolina Biotechnology Center, USA

LIST OF PUBLICATIONS:

Chapters in Books

1. Role of nanotechnology in medicine: opportunities and challenges. I. P. Ejidike, O. Ogunleye, M. O. Bamigboye, O. M. Ejidike, **A. Ata**, M. O. Eze. In: Biogenic Nanomaterials for Environmental- Principles, Practices, and Opportunities Sustainability. Editors: H. S. Clayton, V. U. Nwankwo, J. O. Fatokun. M. P. Shah, N. Bharadvaja, L. Kumar. Springer, Cham., pp. 353-375, 2024.
2. Bioactive natural products from medicinal plants, **A. Ata**. In: Drug Discovery and Design Using Natural Products. Editor: Jorddy N. Cruz, Springer, Cham. https://doi.org/10.1007/978-3-031-35205-8_14, pp. 417-434, 2023.
3. Synthesis of bioactive heterocyclic compound, **A. Ata** and S. Naz. In: Organic Synthesis. Editor: Ahindra Nag, CRC Press, Boca Raton, FL, USA, pp. 137-150, 2022.
4. Exploring medicinal plants for the development of natural enzyme inhibitors, S. Naz, P. Holloway, **A. Ata**, B. Sener In Evidence-Based Validation of Herbal Medicine, Ed. P. K. Mukherjee, Elsevier Science Publishers, Amsterdam, pp. 671-690. 2022.

5. Antinutritional factors and biological constraints in the utilization of plant protein Foods, A Ali, S Devarajan, A Manickavasagan, **A. Ata**. In *Plant Protein Foods*, Eds. A. Manickavasagan, L.-T. Lim and A. Alai, Springer Nature, Switzerland, pp.407-438, 2022
6. Biosynthesis of Bioactive Natural products, **A. Ata** and K. Friesen In: *Organic Synthesis*. Editor: Ahindra Nag, CRC press, Boca Raton, FL, USA, pp. 305-317, 2022.
7. Health related enzyme inhibiting natural Products from medicinal plants, **A. Ata**, K. Friesen and B. Sener. In: *Frontiers in Natural Product Chemistry*. Editor; Atta-ur-Rahman, Bentham Science Publishers, Potomac, MD, Vol 5, pp 195-215. 2019.
8. Bioactive natural products and their structure-activity relationships studies, **A. Ata** and H. Alhazmi. In: *Asymmetric Synthesis of Drugs and Natural Products*. Editor: Ahindra Nag, CRC press, Boca Raton, FL, USA, pp. 191-204, 2018.
9. Novel Plant natural products and their biosynthetic origin, **A. Ata**, In “*Studies in Natural Product Chemistry*”, Ed. Atta-ur-Rahman, Elsevier Science Publishers, Amsterdam, Vol. 38, pp. 225-245, 2012.
10. Novel biomedical agents from plants, **A. Ata**, In “*Biotechnological Production of Plant Secondary Metabolites*”, Ed. I. Orhan, pp. 53-66, Bentham Publishers, Dubai, 2012.
11. Novel bioactive natural products from marine and terrestrial sources, **A. Ata**, *Innovations in Chemical Biology*, Ed. B. Sener Springer Publishers, pp. 51, 2009.
12. *Buxus* steroidal alkaloids-chemistry and biology, **A. Ata**, *The Alkaloids*, Ed. G. A. Cordell, Elsevier Science Publishers, Amsterdam, Vol. 66, pp. 191-213, 2008.
13. Microbial transformations of bioactive natural products, **A. Ata**, KACST-Japanese Lecture Series, KACST Press, Riyadh-11442, Saudi Arabia, pp. 111-131, 1997.
14. Xenobiotic microbial transformations of a natural cytotoxic sesquiterpene lactone, **A. Ata**, Atta-ur-Rahman and M. I. Choudhary, "*Recent Discoveries in Natural Products Chemistry*", Eds. Atta-ur-Rahman, M. I. Choudhary and M. S. Shekhani, Elite Publishers, Karachi, pp. 359-370, 1995.
15. Recent phytochemical studies and chemotaxonomy of genus *Buxus*, S. Naz, F. Noor-e-Ain, **A. Ata**, Atta-ur-Rahman, M. I. Choudhary, B. Sener, and E. Dagne, "*Recent Discoveries in Natural Products Chemistry*", Eds. Atta-ur-Rahman, M. I. Choudhary and M. S. Shekhani, Elite Publishers, Karachi, pp. 307-320, 1995.

Research Publications

95. An expedient route for the synthesis of 2,6'-biquinoline derivatives, T. Arasakumar, **A. Ata**, P. S. Mohan, *Molecular Diversity*, 2024 (submitted).
94. 4-Chlorobenzylamine containing maleic acid derivatives, synthesis, *in-silico* and anti-Alzheimer's activity, M. J. Tariq, M. Kanwal, **A. Ata**, H. Nadeem, M. Siddiqui, *Sci Rep.* 2024 (submitted).
93. Triterpenoidal alkaloids-A review: **A. Ata**, *Phytochemistry*, 2024 (Submitted).
92. Phytochemicals from Genus *Drypetes* and their bioactivities, **A. Ata** and M. S. Khan, *Current Bioactive Compounds*, 2024 (Submitted).
91. Triterpenoids from *Drypetes natalensis* with α -glucosidase inhibitory activity, E. Rodriguez, M. S. Khan, S. Noodrat, A. James, **A. Ata** and R. M. Gengan, *Fitoterapia*, 2024 (Submitted).
90. Selected aromatic secondary metabolites from medicinal plants with neurotherapeutic properties, **A. Ata**, S. Naz, B. Sener, L. H. Rakotondraibe, , *Current Bioactive Compounds* (submitted) 2024.
89. Spectroscopic characterization, DFT calculations, in vitro pharmacological potentials, and molecular docking studies of an N, N, O-Schiff base and its trivalent metal complexes, I. P. Ejidike, A. Direm, C. Parlak, A. A. Adeniyi, M. Azam, **A. Ata**, M. O. Eze, J. W. Hollett, H. S. Clayton, *Chemical Physics Impact*, **8**, 100549, 2024.

88. COVID-19: Impact, diagnosis, management and phytoremediation, **A. Ata**, S. Naz, S. Sandhu, B. Sener, *Current Traditional Medicine*, **9**, 16-24, 2023.
87. Building industry-inspired medical biotechnology investigative labs to enhance experiential capstone courses, Z. Amtul, M. Seifi, E. Asif and **A. Ata**, *J. Chem. Edu.*, **100**, 1486-1493, 2023.
86. S. Malik, G. A. Miana, **A. Ata**, M. Kanwal, S. Maqsood, I. Malik and Z. Kazmi, Synthesis, Characterization, In-Silico and pharmacological evaluation of New 2-Amino-6-Trifluoromethoxy benzothiazole derivatives, *Bioorganic Chemistry*, **130**, 106175, 2022.
85. S. E. El Feky, M. S. M. A. El Hafez, N. A. A. El Moneim, H. A. H. . Ibrahim, M. A. Okbah **A. Ata**, A. S. El Sedfy and A. Hussein, Cytotoxic and antimicrobial activities of two new sesquiterpenoids from red sea brittle star *Ophiocoma dentata*. *Sci. Rep.* **12**, 8209 (1-13), 2022.
84. First report of steroid derivatives isolated from a starfish *Acanthaster planci* with anti-bacterial, anti-cancer and anti-diabetic activities, M. S. M. Abd El Hafez, M. A. Okbah, H. A.H. Ibrahim, A. A. E. R. Hussein, N. A. A Moneim and **A. Ata**. *Natural Product Research*, **36**, 5545-5552, 2022.
83. Prosopis Plants Chemical Composition and Pharmacological Attributes: Targeting Clinical Studies from Preclinical Evidence, J. Sharifi-Rad , F. Kobarfard , **A. Ata**, S. A. Ayatollahi, N. Khosravi-Dehaghi, A. K. Jugran, M. Tomas, E. Capanoglu, K. R. Matthews, J. Popović-Djordjević, A. Kostić, S. Kamiloglu, F. Sharopov, M. I. Choudhary, N. A Martins, *Biomolecules*, **i**, 777:1-50, 2020.
82. Medicinal plants used in the treatment of tuberculosis - Ethnobotanical and ethnopharmacological approaches, J. Sharifi-Rad, B. Salehi, Z. Z. Stojanovic-Radic, P. V. T. Fokou, G. B. Mahady, M. Sharifi-Rad, M. R. Masjedi, T. O. Lawal, S. A. Ayatollahi, J. Masjedi, R. Sharifi-Rad, W. N. Setzer, F. Kobarfard, A. -U. Rahman, M. I Choudhary, **A. Ata**, M. Iriti, *Biotechnology Advances*, 107629, 2020.
81. Anti-diabetes potential of medicinal plants and their active components, B. Salehi, **A. Ata**, N. V. Anil Kumar, F. Sharopov, K. Ramírez-Alarcón, A. Ruíz-Ortega, S. A. Ayatollahi, P. V. T. Fokou, F. Kobarfard, Z. A. Zakaria, M. Iriti , Y. Taheri, M. Martorell , A. Sureda, W. N. Setzer, A. Durazzo, M. Lucarini, A. Santini , R. Capasso, E. A. Ostrander, Atta -ur-Rahman, M. I. Choudhary, W. C. Cho, J. Sharifi-Rad, *Biomolecules*, **9**, 551:1- 121, 2019.
80. A Yb(OTf)₃-catalyzed, convergent synthesis of new pyranyl and chromenyl substituted quinolines through eco-friendly approach, K. Chandraprakash, N. Vandana, M. Sankaran, C. Uvarani, **A. Ata**, P.S. Mohan, T. Suresh, *J. Heterocycl. Chem.*, **56**, 2986-2992, 2019.
79. *Athyrium* plants - Review on phytopharmacy properties, B. Salehi, S. M. Ezzatb,c, P. V. T.h Fokou, S. Albayrak, S. Vlasisavljevic, M. Sharifi-Rad, I. D. Bhatt, M. Sharifi-Rad,T. Belwal, S. A. Ayatollahi, F. Kobarfard, **A. Ata**, N. Baghalpour, M. Martorell, W.N. Setzer, J. Sharifi-Rad, *Journal of Traditional and Complementary Medicine*, **9**, 201-205, 2019.
78. Triterpenoid corosolic acid attenuates HIF-1 stabilization upon cobalt (II) chloride-induced hypoxia in A549 human lung epithelial cancer cells, M. B. Bahadori, M. Eskandani, S.Vandghanooni , L. Dinparast , S. A. Ayatollahi, **A. Ata**, H. Nazemiyeh, *Fitoterapia*, **134**, 493-500, 2019.
77. Viscosine: A new microbial flavonoid from marine-derived, *Streptomyces* sp. RMS518F , R. M. Selim, M. Shaaban, A. A. Hamdy, Abou Zeid, A. A., A. Ata, *Vietnam. J. Chem.* **57**, 288-295, 2019.

76. Tsc1/Tsc2 complex: A molecular target of capsaicin for protection against testicular torsion induced injury in rats, N. Javdan, A. Ayatollahi, M. I. Choudhary, S. Al-Hassani, F. Kobarfard, K. Mokhtarian, M. Khoshmirsafa, and **A. Ata**, *Chinese Herbal Medicines*, **11**, 216-221, 2019.
75. Synthesis and biological evaluation of novel fused Indolo [2,3-c] [1,8] naphthyridine derivatives as potential antibacterial agents, T. R. Makhanya, R. M. Gengan and **A. Ata**, *Synthetic Communications*, **49**, 823-835, 2019.
74. Thymus spp. plants - food applications and phytopharmacy properties, B. Salehi, M. Abu-darwish, A. H. Tarawneh, C. Cabral, A. V. Gadetskaya, L. Salgueiro, T. Hosseinabadi, S. Rajabi, W. Chanda, M. Sharifi-Rad, R. Mulaudzi, S. A. Ayatollahi, F. Kobarfard, D. Keriman Arserim-Ucar, **A. Ata**, Navid Baghalpour, M. D. M. Contreras, J. Sharifi-Rad, *Trends in Food Science & Technology*, **85**, 287-306, 2019.
73. One-pot approach to pyrido-4-phenanthridinones via Pd-catalyzed annulation of 4-quinolones with 2-bromobenzyl bromides, T. Arasakumar, S. Gopalan, S. Shyamsivappan, **A. Ata**, and P.S. Mohan, *Synlett*, **30**, 63-68, 2019.
72. Antibacterial activity of some Lamiaceae species against *Staphylococcus aureus* in yoghurt based drink (Doogh), A. Abdolshahi, S. Naybandi-Atashi, M. Heydari-Majd, B. Salehi, F. Kobarfard, S. A. Ayatollahi, J. Sharifi-Rad, **A. Ata**, G. Tabanelli, C. Montanari, M. Sharifi-Rad, M. Iriti, *Cellular and Molecular Biology*, **64**, 71-77, 2018.
71. Interleukin (IL)-8 polymorphisms contribute in suicide behavior, R. Noroozi, M. D. Omrani, S. A. Ayatollahi, A. Sayad, **A. Ata**, H. Fallah, M. Taheri, S. Ghafouri-Fard, *Cytokine*, **111**, 28-32, 2018.
70. Overcoming the hurdle from undergraduate lab to research lab: A guided-inquiry structural characterization of a complex mixture in the upper division undergraduate lab, D. Latimer, **A. Ata**, C. Forfar, M. Kadhim, A. McElrea and R. Sales, *J. Chem. Edu*, **95**, 2046-49, 2018.
69. Design, synthesis and evaluation of substituted aryl-2-nitrovinyl derivatives as small molecules proteasome inhibitors, A. M. Faghih, F. Kobarfard, M. Daeihamed, S. A. Ayatollahi and **A. Ata**, *IJPR*, **17**, 906-16, 2018.
68. Microwave- assisted Synthesis of dihydro-dibenzophenanthroline and its derivatives using a self-catalyzed Friedlander reaction, K. Chandraprakash, N. Vandana, M. Sankaran, C. Uvarani, **A. Ata**, P.S. Mohan, T. Suresh, *J. Heterocycl. Chem.* **55**, 2766-71, 2018.
67. Development and validation of a GC/MS method for simultaneous determination of 7 monoterpenes in two commercial pharmaceutical dosage forms, M. Esfahanizadeh, S. A. Ayatollahi, A. Goodarzi, M. Bayat, **A. Ata**, F. Kobarfard, *IJPR*, **17**, 24-32, 2018.
66. Medicinal plants used in the treatment of human immunodeficiency virus, B. Salehi, N. V. A. Kumar, B. Sener, M. Sharifi-Rad, M. Kilic, G. B. Mahady, S. Vlaisavljevic, M. Iriti, F. Kobarfard, W. N. Setzer, S. A. Ayatollahi, **A. Ata** and J. Sharifi-Rad, *Int. J. Mol. Sci.*, **19**, 1459/1-1459/60 2018.
65. Synthesis of novel Phenyl-8, 9-dihydrobenzo[b] [1, 8] naphthyridin-6(7H)-one derivatives and their biological evaluation against lung cancer cells, T.R. Makhanya, P. Pitchai, A. Ata and R. M. Gengan, *J. Heterocycl. Chem.* **55**, 1193-1204, 2018.
64. Capsaicin protects against testicular torsion injury through mTOR-dependent mechanism, S. Jaydan, S. A. Ayatollahi, M. I. Choudhary, S. Al-Hasani, F. Kobarfard, A. Ata, H. Pazoki-Toroudi, *Theriogenology*, **113**, 247-52, 2018.

63. Microwave-assisted synthesis, biological evaluation and docking studies of pyran, pyrazole ring fused 8-nitro quinolines as anticancer agents, T. Arasakumar, S. Mathusalini, S. Shyam, S. Gopalan, **A. Ata**, K. Lakshmi, P. S. Mohan, *Bioorg. and Med. Chem. Lett.* **27**, 1538-46, 2017.
62. Synthesis of first ever 4-quinolone-3-carboxylic acid-appended spirooxindole-pyrrolidine derivatives and their biological applications, T. Arasakumar, S. Mathusalini, **A. Ata**, R. Shankar, S. Gopalan, K. Lakshmi, P. Sakthivel, P. S. Mohan, *Molecular Diversity*, **21**, 37-52, 2017.
61. Antimicrobial compounds from *Drypetes staudtii*, D. Grace, M. S. Khan, K. Friesen and **A. Ata**, *Chemistry and Biodiversity*, **13**, 913-917, 2016.
60. Object-oriented synthetic approach toward angular and linear fused pyrazoloquinolines of biological importance with InCl₃ catalyst, T. Arasakumar, S. Mathusalini, K. Lakshmi, P. S. Mohan, **A. Ata**, C.-H. Lin, Chia-Her, *Synthetic Communications*, **46**, 232-41, 2016.
59. Novel steroidal alkaloids from *Buxus macowanni*, C. W. Lam, A. Wakeman, **A. Ata**, R. M. Gengan, *Steroids* **95**, 73-79, 2015.
58. New class of DNA intercalative cytotoxic allylic xanthone from *Swertia corymbosa*, U. Chokkalingam, J. Nanjundan, S. Mathan, C. Kumarasamy, **A. Ata**, P. S. Mohan, *Chemistry and Biodiversity*, **12**, 358-70, 2015.
57. Synthesis of novel indenoquinoxaline derivatives as potent α -glucosidase inhibitors, M. S. Khan, M. A. Munawar, M. Ashraf, **A. Ata**, A. M. Asiri, S. Kousar, M. A. Khan, *Bioorganic and Medicinal Chemistry*, **22**, 1196-1200, 2014.
56. Axially chiral bis-carbazoles and biological evaluation of the constituents From *Murraya koenigii*, U. Chokkalingam, J. Nanjundan, S. Mathan, C. Kumarasamy, **A. Ata**, P. S. Mohan, *Fitoterapia*, **94**, 10-20, 2014.
55. A strategic approach to the synthesis of novel class of dispiroheterocyclic derivatives through 1,3 dipolar cycloaddition of azomethine Ylide with (E)-3-arylidene-2,3-dihydro-8-nitro-4-quinolone, C. Kumarasamy, M. Sankaran, C. Uvarani, **A. Ata**, F. Dallemer, P. S. Mohan, *Tetrahedron Letters*, **54**, 3896-3901, 2103.
54. Novel dimeric carbazole alkaloids from *Murraya koenigii*, C. Uvarani, M. Sankaran, K. Chandraprakash, N. Jaivel, **A. Ata** and P. S. Mohan, *J. Nat. Prod.* **76**, 993-1000, 2013.
53. Novel indole alkaloids from *Nauclea latifolia* and their renin inhibitory activity, A. A. Agomouh, **A. Ata**, C. C. Udenigwe, R. E. Aluko, I. Irenus, *Chem. Biodiversity*, **10**, 401-10, 2013.
52. Phytochemical studies on *Beilschmiedia* species A. Mollataghi, E. Coudiere, A. H. A. Hadi, M. R. Mukhtar, K. Awang, M. Litaudon and A. Ata, *Fitoterapia*, **83**, 298-302, 2012.
51. Antioxidant Activity of Phenolic Xanthenes from *Swertia minor* (Griseb.) Knobl. C. Uvarani, K. Chandraprakash, M. Sankaran, **A. Ata** and P. S. Mohan, *Natural Product Research*, **26**, 1265-70, 2012.
50. Naturally occurring enzyme inhibitors and their pharmaceutical applications, **A. Ata**, S. Naz and E. Elias, *Pure and Applied Chemistry*, **83**, 1741-49, 2011.

49. Chemical constituents of *Drypetes gossweileri*, **A. Ata**, D. S. Tan, W. L. Matochko, J. K. Adesanwo, *Phytochemistry Letters*, **4**, 34-37, 2011.
48. Triterpenoidal alkaloids from *Buxus natalensis* and their acetylcholinesterase inhibitory activity, W. L. Matochko, A. James, D. J. Kozera, **A. Ata**, R. Gengan, *Journal of Natural Products*, **73**, 1858-62, 2010.
47. Glutathione S-transferase inhibitory, free radical scavenging, and anti-leishmanial Activities of chemical constituents of *Artocarpus nobilis* and *Matricaria chamomilla*, C. D. Iverson, S. Zahid, Y. Li, A.H. Shoqafi, **A. Ata**, and R.Samarasekera, *Phytochemistry Letters*, **3**, 207-11, 2010.
46. Triterpenoidal alkaloids from *Buxus hyrcana* and their enzyme inhibitory, anti-fungal and anti-leishmanial activities, **A. Ata**, C. D. Iverson, K.S. Kalhari, S.Akhter, J. Betteridge, M. H. Meshkatalasadat, I. Orhan and B. Sener, *Phytochemistry*, **71**, 1780-86, 2010.
45. Chemical constituents of *Nauclea latifolia* and their anti-GST and anti-Fungal activities, **A. Ata**, W. Matochko, C. C. Udenigwe, P. Holloway, M. O. Eze and P. N. Uzoegwu, *Natural Product Communications*, **4**, 1185-88, 2009.
44. Bioactive chemical constituents of *Caesalpinia bonduc*, **A. Ata**, E. Gale and R. Samarasekera, *Phytochemistry Letters*, **2**, 106-9, 2009.
43. Microbial reactions on 7 α -Hydroxyfrullanolide and evaluation of biotransformed products for antibacterial activity, **A. Ata**, J. Betteridge, E. Schaub D. J. Kozera, P. Holloway and R. Samarasekera, *Chemistry and Biodiversity*, **9**, 1453-62, 2009.
42. Chemical constituents of *Barleria prionitis* and their enzyme inhibitory and free radical scavenging Activities **A. Ata**, K. S. Kalhari and R. Samarasekera, *Phytochemistry Letters*, **2**, 37-40, 2009.
41. Minor chemical constituents of *Caesalpinia bonduc*, **A. Ata**, C. C. Udenigwe, E. M. Gale and R. Samarasekera, *Natural Product Communications*, **4**, 311, 2009.
40. Chemical constituents of *Vitex pinnata*, **A. Ata**, N. Mbong, C. D. Iverson and R. Samarasekera, *Natural Products Communications*, **4**, 1-4, 2009.
39. Oleanolic acid and related derivatives as medicinally important compounds, N. Sultana and **A. Ata**, *Journal of Enzyme Inhibition and Medicinal Chemistry*, **23**, 739-56, 2008.
38. The Discovery and application of inhibitors of glutathione S-transferase as therapeutic agents-a review, **A. Ata** and C. C. Udenigwe, *Current Bioactive Compounds*, **4**, 41-50, 2008.
37. Glutathione S-transferase and acetylcholinesterase inhibiting natural products from medicinally important plants, **A. Ata**, S. A. Van Den Bosch, D. J. Harwanik and G. E. Pidwinski, *Pure and Applied Chem.* **79**, 2269-76, 2007.
36. New chemical constituents of *Ambrosia psilostachya*, **A. Ata**, C. Diduck, C. C. Udenigwe, *ARKIVOC*, 195-203, 2007.
35. Synthesis of novel coumarin, benzocoumarin derivatives and their biological and photophysical studies, A. S. Abd-El-Aziz, H. M. Mohamed, S. Mohammed, S. Zahid and **A. Ata**, *Journal of Heterocyclic Chemistry*, **44**, 1287-1301, 2007.

34. Novel microbial transformations of sclareolide, **A. Ata**, L. J. Conci, J. Bettridge, I. Orhan and B. Sener, *Chemical and Pharmaceutical Bulletin*, **55**, 118-23, 2007.
33. Glutathione S-transferase, acetylcholinesterase inhibitory and antibacterial activities of chemical constituents of *Barleria Prionitis*, K. S. Kosmulalage, S. Zahid, C. C. Udenigwe, S. Akhtar, **A. Ata** and R. Samarasekera, *Zeitschrift für Naturforschung B*, **62b**, 580-86, 2007.
32. New triterpenoids from *Artocarpus nobilis*, S. Zahid, **A. Ata** and R. Samarasekera, *Zeitschrift für Naturforschung B*, **62b**, 280-84, 2007.
31. Glutathione S-tTransferase inhibiting chemical constituents of *Caesalpinia bonduc*, C.C. Udenigwe, **A. Ata** and R. Samarasekera, *Chemical and Pharmaceutical Bulletin*, **55**, 442-45, 2007.
30. New bioactive chemical constituents of *Coprnus micaceus*, S. Zahid, C. C. Udenigwe, **A. Ata**, M. O. Eze, E. P. Segstro and P. Holloway, *Natural Product Research*, **20**, 1283-89, 2006.
29. Mucaralactone A: a novel sSteroid from the liquid culture of *Mucor plumbeus*, **A. Ata**, L. J. Conci and I. Orhans, *Heterocycles*, **68**, 2097-2106, 2006.
28. New bioactive steroidal Alkaloids from *Buxus hyrcana*. Z. U. Babar, **A. Ata** and M. H. Meshkatsadat, *Steroids*, **71**, 1045-51, 2006.
27. New triterpenoidal alkaloids from *Buxus hyrcana*, M. H. Meshkatsadat, A. Mollataghi and **A. Ata**, *Zeitschrift für Naturforschung B*, **61b**, 201-6, 2006.
26. Synthesis and biological evaluation of benzothiazole derivatives of pyrimidines, acrylnitriles and coumarins, A. M. Youssef, H. M. Mohamed, C. Czezowski, **A. Ata**, and A. S. Abd-El-Aziz, *Heterocycles*, **68**, 347-55, 2006.
25. Synthesis of hydroxyquinoline Derivatives, aminohydroxychromene, aminocoumarin and their anti-bacterial activities, A. S. Abd-El-Aziz, A. M. El-Agrody, A. H. Bedair, T. C. Corkery, and **A. Ata**, *Heterocycles*, **63**, 1793-1812, 2004.
24. New bioactive diterpenes from *Pseudopterogorgia elisabethae*, **A. Ata**, H. Y. Win, D. Holt, P. Holloway, *Helvetica Chimica. Acta*, **87**, 1090-98, 2004.
23. Bioactive chemical constituents of *Cladiella* Sp., **A. Ata**, J. Ackerman and P. Radhika, *Helvetica Chimica Acta*, **87**, 592-97, 2004.
22. Microbial transformations of α -santonin, **A. Ata** and J. A. Nachtigall, *Zeitschrift für Naturforschung C*, **59c**, 209-14, 2004.
21. Pseudopterosin biosynthesis-pathway elucidate, enzymology and a proposed production method for anti-inflammatory metabolites from *Pseudopterogorgia elisabethae*, A. C. Kohl, **A. Ata** and R. G. Kerr, *Journal of Industrial Microbial. Biotechnology*, **30**, 495-99, 2003.
20. Cladioxazole: a novel sesquiterpene from a marine soft coral of genus *Cladiella*, **A. Ata**, J. Ackerman and P. Radhika, *Tetrahedron Letters*, **44**, 6951-53, 2003.
19. Identification of anti-Inflammatory diterpenes from the marine gorgonian, *Pseudopterogorgia elisabethae*, **A. Ata**, R. G. Kerr, C.E. Moya and R. S. Jacobs, *Tetrahedron*, **59**, 4215-22, 2003

18. New triterpenoidal alkaloids from *Buxus sempervirens*, **A. Ata**, S. Naz, M. I. Choudhary, Atta-ur-Rahman, B. Sener and S. Turkoz, *Zeitschrift für Naturforschung C*, **57C**, 21-28, 2002.
17. Elisabethamine: a new diterpene alkaloid from *Pseudopterogorgia elisabethae*, **A. Ata** and R. G. Kerr, *Tetrahedron Letters*, **41**, 5821-25, 2000.
16. 12-Acetoxy-pseudopterolide-a new diterpene from *Pseudopterogorgia elisabethae*, **A. Ata** and R. G. Kerr, *Heterocycles*, **53**, 717-22, 2000.
15. New steroidal alkaloids from the roots of *Buxus sempervirens*, Atta-ur-Rahman, **A. Ata**, S. Naz, M. I. Choudhary, B. Sener and S. Turkoz, *Journal of Natural Products*, **62**, 664-69, 1999.
14. New Triterpenoidal Alkaloids from the Leaves of *Buxus papillosa*, Atta-ur-Rahman, S. Naz, **A. Ata**, and M. I. Choudhary, *Heterocycles*, **48**, 519-28, 1998.
13. Novel triterpenoidal alkaloids from the roots of *Buxus sempervirens*, Atta-ur-Rahman, S. Naz, **A. Ata**, M. I. Choudhary, B. Sener and S. Turkoz, *Natural Product Letters*, **12**, 299-306, 1998.
12. New triterpenoidal alkaloids from the leaves of *Buxus papillosa*, Atta-ur-Rahman, M. I. Choudhary, S. Naz, **A. Ata**, S. Perveen and M. Pervaz, *Natural Product Letters*, **11**, 111-18, 1998.
11. New steroidal alkaloids from the roots of *Buxus sempervirens*, Atta-ur-Rahman, M. I. Choudhary, S. Naz, **A. Ata**, B. Sener and S. Turkoz, *Journal of Natural Products*, **60**, 770-74, 1997.
10. Identification of essential oil constituents of *Ocimum basilicum*, *Myrtus communis* and *Mentha arvensis*, M. Qasir, M. Khan, M. N. Ahmad, Atta-ur-Rahman, M. I. Choudhary and **A. Ata**, *Journal of Chemical Society of Pakistan*, **18**, 331-35, 1996.
9. Microbial transformations of 7 α -hydroxyfrullanolide, Atta-ur-Rahman, M.I. Choudhary, **A. Ata**, M. Alam, A. Farooq, S. Perveen, M. S. Shekhani, N. Ahmad, *Journal of Natural Products*, **57**, 1251-55, 1994.
8. Use of two-dimensional NMR spectroscopy in structure elucidation of complex steroidal alkaloids, Atta-ur-Rahman, M. I. Choudhary and **A. Ata**, *Journal of Ceylon Chemistry* 1994.
7. Novel steroidal alkaloids from the leaves of *Buxus hildebrandtii*, **A. Ata**, Atta-ur-Rahman, M. I. Choudhary and E. Dagne, *Proceedings of 5th National Chemistry Conference*, p.242-250 1993.
6. New steroidal alkaloids from the roots of *Buxus papillosa*, Atta-ur-Rahman, E. Asif, S. S. Ali, H. Nasir, S. A. Jamal, **A. Ata**, A. Farooq, M. I. Choudhary, B. Sener and S. Turkoz, *Journal of Natural Products*, **52**, 1063-66, 1992.
5. Multi-dimensional NMR spectroscopy-theory and applications, Atta-ur-Rahman, M. I. Choudhary and **A. Ata**, "*Proceedings of the First International Symposium on Contemporary Biology*", F. J. Medical College, Lahore, Pakistan 1992, p. 143-170.
4. New tetrahydrofuranoid steroidal alkaloids from the leaves of *Buxus hildebrandtii*, Atta-ur-Rahman, M. I. Choudhary, **A. Ata** and E. Dagne, *Heterocycles*, **34**, 157-71, 1992.
3. Two-dimensional NMR spectroscopy-application in structure elucidation of complex natural products, Atta-ur-Rahman, M. I. Choudhary and **A. Ata**, "*Medicinal Products from Tropical Rain Forest, Proceedings of the Conference*", Forest Research Institute, Malaysia, May 13-15, 1991, Eds. K. Shaari, A. Abd. Kadir and Abd. R.M. Ali., P.196-225, 1992.

2. Studies on saponins from indigenous medicinal plants, R. Ahmad, **A. Ata**, B. Islam and M. Ashfaq, *Pakistan Veterinary Journal*, **10**, 146-150, 1990.
1. New steroidal alkaloids from the leaves of *Buxus hildebrandtii*, **A. Ata**, Atta-ur-Rahman, M. I. Choudhary, and E. Dagne, *Proceedings of 2nd National Chemistry Conference*, Eds. R. Ronaq, Atta-ur-Rahman and Z. H. Zaidi, p.212-235, 1990.

Conference Presentations (Presenter name is boldface)

145. α -Glucosidase Inhabiting Natural Products from Edible Herbs, **S. Sandhu** and A. Ata, Canadian Chemistry Conference and Exhibition, June 4-8, 2023, Vancouver, BC.
144. α -Glucosidase Inhabiting Natural Products from *Zingiber officinale*, **M. Amonyi** and A. Ata, 35th Western Canadian Undergraduate Chemistry Conference, May 2-5, 2023 Edmonton, AB.
143. Synthesis of Bioactive Compounds, **S. E. Thomson** and A. Ata, 35th Western Canadian Undergraduate Chemistry Conference, May 2-5, 2023 Edmonton, AB
142. α -Glucosidase Inhabiting Natural Products from Edible Herbs, S. Sandhu and **A. Ata**, Recent Advances in Photonics and Physical Sciences, March 7-9, 2023, Govt. College for Women University, Faisalabad, Pakistan.
141. Isolation of Bioactive Compounds from *Carissa apaca*, **S. Irshad**, S. Izhar, D. Ahmad and A. Ata, 102nd Canadian Chemistry Conference and Exhibition, June 03-07, 2019, Quebec City, QC.
140. Effects of *Gongronema latofolium* Methanolic Leaf Extract on Viability and Pro-/Anti-Inflammatory Properties of Macrophage, **A. Goel**, J. Uzonna, A. Ata and M. Eze, 102nd Canadian Chemistry Conference and Exhibition, Quebec City, QC June 03-07, 2019.
139. α -Glucosidase Inhibiting Natural Products from *Chromolaena odorata*, **C. Onyema** and A. Ata, 102nd Canadian Chemistry Conference and Exhibition, June 03-07, 2019, Quebec City, QC.
138. Phytochemicals of *Carissa* Sp. **G. Cheema**, S. Izhar, D. Ahmad, A. Ata, 102nd Canadian Chemistry Conference and Exhibition, June 03-07, 2019, Quebec City, QC.
137. Phytochemical Studies on *Anacardium Occidentale*, **U. Wolf**, C. T. Onyema, V. I. E. Ajiwe and A. Ata, 33rd Western Canadian Undergraduate Chemistry Conference, June 14-15, Kelowna, BC
136. Isolation of Compounds from *Carissa apaca*, **S. Irshad**, S. Izhar, D. Ahmad and A. Ata, 2nd Manitoba Chemistry Symposium, May 03-04, 2019, Brandon, Manitoba
135. Phytochemical Studies on *Anacardium Occidentale*, **U. Wolf**, C. T. Onyema, V. I. E. Ajiwe and A. Ata, 2nd Manitoba Chemistry Symposium, May 03-04, 2019, Brandon, Manitoba
134. Phytochemical studies on *Sapium integerrimum*, **A. Majeed** and A. Ata, 2nd Manitoba Chemistry Symposium, May 03-04, 2019, Brandon, Manitoba
133. α -Glucosidase Inhibiting Natural Products from *Chromolaena odorata*, **C. T. Onyema**, B. Nargash, V. I. E. Ajiwe and A. Ata, 2nd Manitoba Chemistry Symposium, May 03-04, 2019, Brandon, Manitoba

132. Phytochemical Studies on the Methanolic Extract of Roots of plant *Carissa opaca*, **G. Cheema**, S. Izhar, D. Ahmad and A. Ata, 2nd Manitoba Chemistry Symposium, May 03-04, 2019, Brandon, Manitoba
131. Phytochemical studies on *Carissa opaca* **S. Izhar**, D. Ahmad, A. Ata, 6th Western Canadian Medicinal Chemistry Workshop, September 21-23, 2018, University of Saskatchewan, Saskatoon, SK.
130. α -Glucosidase Inhibiting Natural Products from *Chromolaena odorata*, **C. T. Onyema**, V. I.E. Ajiwe and A. Ata, 6th Western Canadian Medicinal Chemistry Workshop, September 21-23, 2018, University of Saskatchewan, Saskatoon, SK.
129. Phytochemical studies on *Curcuma longa*, **H. Alhazmi** and Athar Ata, 6th Western Canadian Medicinal Chemistry Workshop, September 21-23, 2018, University of Saskatchewan, Saskatoon, SK.
128. Prospects for Novel Antibiotics from the Environment, **F. A. F. Deuna**, P. Hollowa and A. Ata, 6th Western Canadian Medicinal Chemistry Workshop, September 21-23, 2018, University of Saskatchewan, Saskatoon, SK.
127. Effects of *Gongronema latifolium* Methanolic Leaf Extracts on Viability and Pro-/Anti- Inflammatory Properties of Macrophages, **A. Goel**, P. Jia, C. Onyema, J. Uzonna, A. Ata, M. Eze, 6th Western Canadian Medicinal Chemistry Workshop, September 21-23, 2018, University of Saskatchewan, Saskatoon, SK.
126. Phytochemical Investigation of *Macaranga capensis*, **A. Majeed** and A. Ata, First Manitoba Chemistry Symposium, May 03-04, 2018, The University of Winnipeg, Winnipeg, Manitoba.
125. Synthesis of Coumarin Analogues and their Anti- α -Glucosidase Activity, **N. Kaur** and A. Ata, First Manitoba Chemistry Symposium, May 03-04, 2018, The University of Winnipeg, Winnipeg, Manitoba.
- *124. Phytochemical Studies on *Calopogonium muconoides*, **C.T. Onyema** and A. Ata, First Manitoba Chemistry Symposium, May 03-04, 2018, The University of Winnipeg, Winnipeg, Manitoba.
123. Phytochemical Studies on *Sapium* sp., **A. Yangirov** and A. Ata, 31st Western Canadian Undergraduate Chemistry Conference May 3 - 5, 2017, University of Alberta, Edmonton, Alberta
122. Phytochemical Investigation of *Matricaria chamomilla*, **L. L. Wang**, P. Holloway and A. Ata, 31st Western Canadian Undergraduate Chemistry Conference, May 3 - 5, 2017, University of Alberta, Edmonton, Alberta.
121. De-Replication of Steroidal Alkaloids from *Buxus* sp. using NMR Based Metabolomics Approach, **J. Blackner** and A. Ata, 29th International Symposium on the Chemistry of Natural Products (ISCNP-29) and the 9th International Conference on Biodiversity (ICOB-9), September 24-27, 2016, Izmir, Turkey
- *120. Coumarins and Their anti- α -Glucosidase Activity, **M. Wiebe** and A. Ata, 29th International Symposium on the Chemistry of Natural Products (ISCNP-29) and the 9th International Conference on Biodiversity (ICOB-9), September 24-27, 2016, Izmir, Turkey
119. Novel Steroidal Alkaloids from *Buxus natalensis*, **S. Bhatl**, A. Ata, 30th Western Canada Undergraduate Chemistry Conference, May 6-7, 2016 Winnipeg, Canada
- *118. Buxatetrahydrooxazadiene: A new steroidal alkaloid from *Buxus macowanii*, **F. Esposito**, A. Ata, 30th Western Canada Undergraduate Chemistry Conference, May 6-7, 2016 Winnipeg, Canada
- *117 Coumarin Analogues and their Anti- α -glucosidase Activity, **R. Ayana**, A. McElrea, J. Hollett and A. Ata,

99th Canadian Chemistry Conference and Exhibition, June 05-09, 2016, Halifax, NS

116. Novel Bioactive Natural Products from Medicinally Important Plants, **M. Khan**, E. Rodriguez and A. Ata, 99th Canadian Chemistry Conference and Exhibition, June 05-09, 2016, Halifax, NS
115. New Coumarin Analogues and their Antimicrobial Activity, **A. McElrea** and A. Ata, The International Chemical Congress of Pacific Basin Societies 2015, December 15-20, 2015, Honolulu, HI
114. Novel Bioactive Natural Products from Medicinally Important Plants, **A. Ata**, The International Chemical Congress of Pacific Basin Societies 2015, December 15-20, 2015, Honolulu, HI
113. Novel Bioactive Compounds from Endophytic Fungi of Aboriginal Medicinal Plants, **A. Ata**, American Society of Pharmacognosy Annual Meeting, July 25-29, 2015, Copper Mountain, CO.
112. Novel Biomedical Agents from Medicinally Important Plants, **A. Ata**, 98th Canadian Chemistry Conference and Exhibition, June 13-17, 2015, Ottawa, ON
111. Synthesis of Highly Functionalized Novel Mono, Dispiropyrrrolidine and Thiapyrrrolizidine Hybrids and their Antibacterial Activities, **T. Arasakumar**, A. Ata, P. S. Mohan, 98th Canadian Chemistry Conference and Exhibition, June 13-17, 2015, Ottawa, ON
110. Synthesis of Coumarin Analogues and Their Antimicrobial Activities, **A. McElrea** and A. Ata, 98th Canadian Chemistry Conference and Exhibition, June 13-17, 2015, Ottawa, ON
109. Biochemical Activities of Macroalgae, **M. N. Moawad**, H. R. Zaki, M. G. N. Ghobrial, A. R. Bassiouny, K. M. Kandeel and A. Ata, 98th Canadian Chemistry Conference and Exhibition, June 13-17, 2015, Ottawa, ON
108. Bioactive Steroidal Alkaloids From *Buxus natalensis*, **M. N. Moawad**, H. R. Zaki, M. G. N. Ghobrial, R. M. Gengan, A. Ata, 98th Canadian Chemistry Conference and Exhibition, June 13-17, 2015, Ottawa, ON
107. Anti-Diabetic Lead Compounds from Medicinally Important Plants, **A. Ata** International Conference of Biochemical and Chemical Sciences, Feb 24-26, 2014, Faisalabad, Pakistan.
106. Steroidal Alkaloids from *Buxus macowanii*, **M. Myschyshyn**, M. Almalki, A. Ata and R. Gengan, 97th Canadian Chemistry Conference and Exhibition, June 1-5, 2014, Vancouver, BC
105. Synthesis of Quinoline Bi-pyrazole Analogues, **J. Bao**, T. Makhanya, A. Ata and R. Gengan, 97th Canadian Chemistry Conference and Exhibition, June 1-5, 2014, Vancouver, BC
104. Phytochemical Studies on *Buxus macowanii*, **A. Pryyma**, M. AlMalki, A. Ata and R. Gengan, 8th Annual Randy Kobes Undergraduate Poster Competition, September 2013, University of Winnipeg, Winnipeg, MB .
103. Bioactivity of Conifer Fungal Endophytes towards *Choristoneura fumiferana* **L. Bowman**, A. Ata, R. Westwood, and P. Holloway, 114th General Meeting of American Society for Microbiology, May 2014, Boston, USA
102. Antimicrobial Compounds from Endophytic Fungi, **O. K. Nwakpu**, L. Bowman, P. Holloway, M. Eze, A. Ata, 55th Annual Meeting of the American Society of Pharmacognosy, August 02-6, 2014, Oxford, MS, USA.

101. Bioactive Natural Products from Medicinally Important Plants, **A. Ata**, 55th Annual Meeting of the American Society of Pharmacognosy, August 02-6, 2014, Oxford, MS, USA
101. New Enzyme Inhibiting Phytochemicals and their Pharmaceutical Applications, **A. Ata**, 53rd Annual Meeting of the Phytochemical Society of North America, August 09-13, 2014, North Carolina, USA
99. Exploring the Antimicrobial Activity of Kalonji and Fenugreek in Comparison to Standard Antibiotics, **I. Tariq**, A. Ata and P. Holloway, Manitoba School Science Symposium, April 24, 2014, Manitoba
99. Antidiabetic Activity of Hulled Hemp Seed through the Inhibition of α -Glucosidase, **D. El-Sayed** and A. Ata, Manitoba School Science Symposium, April 24, 2014, Manitoba.
107. Plants: A Source of New Lead Drug Candidate Molecules, **A. Ata**, 14th Asian Symposium on Medicinal Plants, Spices and Other Natural Products, Dec. 9-13, 2013, Karachi, Pakistan.
96. Plant Natural Products and Their Anti-Renin Activity, **A. A. Agomuoh**, A. Ata. and R.E. Aluko, 96th Canadian Chemistry Conference and Exhibition, Quebec, May 26-30, 2013
95. Bioactive Triterpenoidal Alkaloids from *Buxus macowanii*, **R. Emes**, A. Pryma, M. AlMalki, A. Ata and R. Gengan, 96th Canadian Chemistry Conference and Exhibition, Quebec, May 26-30, 2013
94. Phytochemical Studies on *Buxus Macowanii*. **A. Prymma**, R. M. Gengan and A. Ata, The 27th Annual Western Canadian Undergraduate Chemistry Conference, May 9-11, 2013, Saskatoon, SK.
93. Isolation and Characterization of β -ethyl-3-pentanol-A New Source from Actinomycetes, **K. K. Singh**, P. Holloway and A. Ata, The 27th Annual Western Canadian Undergraduate Chemistry Conference, May 9-11, 2013, Saskatoon, SK.
92. Bioactive Triterpenoidal Alkaloids from *Buxus macowanii*, M. Al-Malki, C. L. Lam, **A. Ata** and R. M. Gengan, , 95th Canadian Chemistry Conference and Exhibition, Calgary, May 26-30, 2012
91. Anti-Renin Alkaloid from *Nauclea latifolia*, **A. A. Agomuoh**, A. Ata, C.C. Udenigwe, R. E. Aluko, I. Irenus, , 95th Canadian Chemistry Conference and Exhibition, Calgary, May 26-30, 2012
90. Natural Products with Enzyme Inhibitory Activities, **A. Ata**, 95th Canadian Chemistry Conference and Exhibition, Calgary, May 26-30, 2012
89. Naturally Occurring Enzyme Inhibitors and Their Pharmaceutical Applications, **A. Ata**, 50th Anniversary Meeting, Phytochemical Society of North America. Fairmont Orchid, Hawaii, December 10-15, 2011 **(Invited Talk)**.
88. Triterpenoids from *Drypetes natalensis* and Their anti- α -glucosidase activity, **M. S. Khan** and A. Ata, 10th International and 22nd National Chemistry Conference, University of Agriculture, Faisalabad, Pakistan, Nov. 21-23, 2011
87. Small Natural Enzyme Inhibiting Molecules and their Pharmaceutical Applications, **A. Ata**, 10th International and 22nd National Chemistry Conference, University of Agriculture, Faisalabad, Pakistan, Nov. 21-23, 2011.
86. Exploring Sri Lankan Medicinal Plants: A Rich Source of Bioactive Phytochemicals, **R. R. Samarasekera**, P. H. Kirihettilyanage and **A. Ata**, 241st ACS National Meeting and Exposition, Anaheim, CA, March 27-31, 2011.

85. Bioactive Natural Products from *Matricaria chamomilla*, **A. H. Shoqafi** and A. Ata, 94th Canadian Chemistry Conference and Exhibition, June 5-9, 2011, Montreal.
84. Phytochemical Studies on *Buxus macowanii*, **C. W. Lam** and A. Ata, 94th Canadian Chemistry Conference and Exhibition, Montreal, June 5-9, 2011.
83. Identification of Bioactive Natural Products from Medicinally Important Plants, **A. Ata**, 94th Canadian Chemistry Conference and Exhibition, Montreal, June 5-9, 2011.
82. Triterpenic Acid Derivatives and Their Biological Activities, **T. Atchinson**, A. Ata and A. McCubbin, 25th Annual Western Canadian Undergraduate Chemistry Conference, University of Manitoba, Winnipeg, MB, May 1-3, 2011.
- *81. Anti-Microbial Compounds from Medicinally Important Plants, **S. Nadeem**, and A. Ata, Manitoba School Science Symposium, University of Manitoba, Winnipeg, MB, April 28-May 01, 2011.
- *80. Antibiotic Activity in Rosemary against *E. faecalis*, *S. typhimurium* and *S. aureus*. **D. El-Sayed** and A. Ata, Manitoba School Science Symposium, University of Manitoba, Winnipeg, MB, April 28-May 01, 2011.
79. Natural Products and their Biomedical Applications, **A. Ata**, 12th International Symposium of Natural Product Chemistry, Karachi, Pakistan, November 22-25, 2010.
78. Naturally Occurring Enzyme Inhibitors and Their Pharmaceutical Applications, **A. Ata**, 11th Eurasia Conference on Chemical Sciences, Dead Sea, Jordan, October 6-10, 2010.
77. Novel Microbial Transformations of Bioactive Natural Products, **W. Ring** and A. Ata, Western Canadian Medicinal Chemistry Workshop, Saskatchewan, SK, September 24-26, 2010.
- *76. Cholinesterase Inhibiting Triterpenoidal Alkaloids From *Buxus natalensis* and their Proposed Biosynthesis, **W. Matochko**, A. James, A. Ata and R. Gengan, Joint Meeting between the ASP and PSNA, St. Petersburg Beach, Florida, July 10-14, 2010.
75. Plant Natural Products and Their Enzyme Inhibitory Activities, **A. Ata**, 93rd Canadian Chemistry Conference and Exhibition, Toronto, May 29-June 2, 2010.
74. Natural Products from *Matricaria chamomilla* and their Biological Activities, **C. D. Iverson**, Y. Li and A. Ata, 93rd Canadian Chemistry Conference and Exhibition, Toronto, May 29-June 2, 2010.
73. Novel Triterpenoidal Alkaloids from *Buxus natalensis* and their Enzyme Inhibitory Activities, **W. Matochko**, A. James, A. Ata and R. Gengan, 93rd Canadian Chemistry Conference and Exhibition, Toronto, May 29-June 2, 2010.
72. Novel GST Inhibiting Natural Products From Medicinally Important Plants, **A. Ata**, 6th Conference on Medicinal and Aromatic Plants of Southeast European Countries, Antalya, Turkey, April 18-22, 2010.

71. Phytochemical Studies on *Drypetes gossweileri*, **D. Tan**, W. Matochko and A. Ata, Canadian Undergraduate Chemistry Conference, Lethbridge, May 6 - 8, 2010.
70. Phytochemical Studies on *Buxus natalensis*, **X. Y. Liang**, W. Matochko, A. James and A. Ata, Canadian Undergraduate Chemistry Conference, Lethbridge, May 6 - 8, 2010
69. Chemical Constituents of *Matricaria chamomilla*, **Y. Li**, C. D. Iverson, A. Ata, Canadian Undergraduate Chemistry Conference, Lethbridge, May 6 - 8, 2010.
68. Fungal Catalysis of Oxymatrine into Matrine, **U. Hrysió**, C. D. Iverson and A. Ata, Canadian Undergraduate Chemistry Conference, Lethbridge, May 6 - 8, 2010.
67. Flavonoids from *Matricaria chamomilla*, **C. Iverson** and A. Ata, American Society of Pharmacognosy Meeting, Honolulu, HI, June 27-July 01, 2009.
66. Identification of Bioactive Natural Products From Medicinally Important Plants of Manitoba, **A. Ata**, American Society of Pharmacognosy meeting, Honolulu, HI, June 27-July 01, 2009.
65. Non-Terpenoidal Constituents of *Buxus natalensis*, **C. Vickell** and A. Ata, 92nd Canadian Chemistry Conference and Exhibition, Hamilton, May 30-June 03, 2009.
64. Terpenoidal Alkaloids from *Buxus natalensis* and their Acetylcholinesterase Inhibitory Activity, **D. Kozerá** and A. Ata, 92nd Canadian Chemistry Conference and Exhibition, Hamilton, May 30-June 03, 2009.
63. Phytochemical and Biological Studies on *Combretum bracteosum*, **N. Sultana**, A. James, A. Ata and R. Gengan 92nd Canadian Chemistry Conference and Exhibition, Hamilton, May 30-June 03, 2009.
62. Chemical and Biological Studies on *Matricaria chamomilla*, **C. Iverson** and A. Ata, 92nd Canadian Chemistry Conference and Exhibition, Hamilton, May 30-June 03, 2009.
61. Phytochemical Studies on *Macaranga capensis*, **A. James**, C. W. Lam, A. Ata and R. Gengan 92nd Canadian Chemistry Conference and Exhibition, Hamilton, May 30-June 03, 2009.
60. Chemical Constituents of *Buxus natalensis* and their Biological Activities, **W. Matochko**, A. James, A. Ata and R. Gengan, 92nd Canadian Chemistry Conference and Exhibition, Hamilton, May 30-June 03, 2009.
59. GST and AChE Inhibiting Natural Products From Medicinally Important Plants, **A. Ata**, 92nd Canadian Chemistry Conference and Exhibition, Hamilton, May 30-June 03, 2009.
- *58. Novel Acetylcholinesterase-Inhibiting Steroidal Alkaloids from *Buxus natalensis*, **D. J. Kozerá**, A. Ata and S. Zahid, Western Canadian Medicinal Chemistry Workshop, Saskatoon, September 26-28, 2008.
- *57. Novel Natural Products Isolated From *Buxus natalensis*, **D. Kozerá**, A. Ata, S. Zahid, Rising Stars of Research Conference, University of British Columbia, Vancouver, August 22-24, 2008.
56. GST and AChE Inhibiting Natural Products from Medicinally Important Plants, **A. Ata**, International Conference on Biodiversity and Natural Products (ICOB-6 & ISCNP-26), Charlottetown, July 13-18, 2008.

55. Iridoids Glycosides from *Barleria prionitis* and *Vitex pinnata*, **S. Zahid**, K. S. Kalhari, N. Mbong, A. Ata and R. Samarasekera, 91st Canadian Chemistry Conference and Exhibition, Winnipeg, May 24-28, 2008.
54. Phytochemical Studies on *Macaranga capensis*, **A. James**, M. Qaisar, A. Ata and R. Gengan, 91st Canadian Chemistry Conference and Exhibition, Winnipeg, May 24-28, 2008.
53. Novel Natural Products with Enzyme Inhibitory Activities, **A. Ata**, 10th Eurasia Conference on Chemical Sciences, Manila, Philippines, Jan. 7-11, 2008.
52. Chemical and Biological Studies on *Buxus natalensis*, **D. Hawranik**, S. Zahid, A. James, A. Ata and R. Gengan, 91st Canadian Chemistry Conference and Exhibition, Winnipeg, May 24-28, 2008.
51. Applications of One- and Two-Dimensional NMR Spectroscopic Methods in the Structure Elucidation of Iridoids and Phenylpropanoid Glycosides, **K. S. Kalhari** and A. Ata, 18th Annual Mid-Canada AOAC, Winnipeg, June 14, 2007.
50. Applications of Modern NMR Spectroscopic Methods in the Structure Elucidation of Triterpenoids, **S. Zahid** and A. Ata, 18th Annual Mid-Canada AOAC, Winnipeg, June 14, 2007.
49. Phytochemical and Structural Studies on the Chemical Constituents of the Bark of *Vitex pinnata*, **Y. Y. Negasi**, C. C. Udenigwe, A. Ata and R. Samarasekera, 90th Canadian Chemistry Conference and Exhibition, Winnipeg, May 26-30, 2007.
- *48. New Bioactive Steroidal Alkaloids from *Buxus hyrcana*, **C. Iverson**, A. Ata and M. H. Meshkatsadat, 90th Canadian Chemistry Conference and Exhibition, Winnipeg, May 26-30, 2007.
- *47. Phytochemical Studies on *Pagiantha dichotoma*, **D. Hawranik** and A. Ata, 90th Canadian Chemistry Conference and Exhibition, Winnipeg, May 26-30, 2007.
- *46. Chemical Studies on *Agaricus bisporus*, **E. Coudiere** and A. Ata, 90th Canadian Chemistry Conference and Exhibition, Winnipeg, May 26-30, 2007.
45. Biologically-Active Terpenoidal Glycosides from *Nauclea latifolia*, **C. C. Udenigwe** and A. Ata, 90th Canadian Chemistry Conference and Exhibition, Winnipeg, May 26-30, 2007.
44. Bioactive Chemical Constituents of *Artocarpus nobilis*, **S. Zahid**, A. Ata and R. Samarasekera, 90th Canadian Chemistry Conference and Exhibition, Winnipeg, May 26-30, 2007.
- *43. Anti-Bacterial Activity Exhibiting Natural Products from *Sphaeranthus indicus*, **J. Betteridge**, E. Schaub, A. Ata and R. Samarasekera, 90th Canadian Chemistry Conference and Exhibition, Winnipeg, May 26-30, 2007.
42. New Glutathione S-Transferase Inhibitors from *Barleria prionitis*, K.S. Kalhari, H. Nawaz, A. Ata and R. Samarasekera, 90th Canadian Chemistry Conference and Exhibition, Winnipeg, May 26-30, 2007.
41. Isolation of Bioactive Natural Products from *Pagiantha dichotoma*, **D. Hawranik** and A. Ata, 21st Annual Western Canadian Undergraduate Chemistry Conference 2006, Saskatchewan, SK, May 04-06, 2007
40. Chemical Constituents of *Agaricus bisporus*, **E. Coudiere** and A. Ata, 21st Annual Western Canadian Undergraduate Chemistry Conference 2006, Saskatchewan, SK, May 04-06, 2007

39. Novel Bioactive Natural Products from Marine and Terrestrial Sources, **A. Ata**, 9th Eurasia Conference on Chemical Sciences, Antalya, Turkey, September 09-13, 2006.
- *38. Phytochemical Studies on *Vitex pinnata*, **Y. Y. Negasi**, C. C. Udenigwe and A. Ata, NSERC-sponsored Science Poster Session competition, University of Winnipeg, Winnipeg, September 09, 2006.
- *37. New GST Inhibiting Natural Products From Medicinally Important Plants, **C. C. Udenigwe** and A. Ata, Research Days, Canadian, Students Health Research Forum (CSHRF), Winnipeg, June 6-8, 2006.
36. Novel Bioactive Natural Products form the Medicinally Important Plants of Manitoba, **A. Ata**, 10th International Symposium on Natural Products Chemistry, H.E.J. Research Institute of Chemistry at International Center for Chemical Sciences, Karachi, Jan 06-10, 2006.
- *35. Novel Microbial Transformations of Terpenes, **C. Sasaki**, J. Bettridge and A. Ata, ICOB-5 & ISCNP-25, IUPAC International Conference on Biodiversity and Natural Products, Kyoto, Japan, July 23-28, 2006.
34. Terpenoid-Type Compounds From Red Tetrasporic Alga *Pterocladia capillacea*, **E. H. El-Ashry**, A. E. Nemr, A. Shobier, B. Sener, I Orhan and A. Ata, 10th International Symposium on Natural Products Chemistry, Karachi, January 06-09, 2006.
- 33.* Isolation and Chracterization of Bioactive Natural Products From the Marine Soft Coral *Sinularia* sp., **R. Vendramelli** and A. Ata, 19^h Annual Western Canadian Undergraduate Chemistry Conference, Edmonton, AB, May 04-06, 2006.
32. Phytochemical and Structural Studies on the Chemical Constituents of *Pagiantha dischtoma*, **Y. Zhang** and A. Ata, 19th Annual Western Canadian Undergraduate Chemistry Conference, Edmonton, AB, May 04-06, 2006.
31. Latifolian: A New Gluthione S-Transferase Inhibiting Triterpenoid from *Nauclea latifolia*, **C. C. Udenigwe**, A. Ata, M. O .Eze and P. N. Uzoegwu 89th Canadian Chemistry Conference and Exhibition, Halifax May 27-31, 2006.
30. Phytochemical Studies on *Pagiantha dischtoma*, **Y. Zhang** , K. S. Kalhari and A. Ata, 89th Canadian Chemistry Conference and Exhibition, Halifax May 27-31, 2006
29. New bioactive chemical constituents of *Coprinus micaceus*, **S. Zahid** and A. Ata, 89th Canadian Chemistry Conference and Exhibition, Halifax, May 27-31, 2006.
28. New Bioactive Natural Products from *Barleria priontis*, **K.S. Kalhari**, A. Ata and R. Samamrasakara, 89th Canadian Chemistry Conference and Exhibition, Halifax May 27-31, 2006.
27. Phytochemical Studies on *Ambrosia psiloslachia*, **C. Diduck** and A. Ata, 88th Canadian Chemistry Conference and Exhibition, Saskatoon, May 28-June 01, 2005.
26. Anti-Microbial Natural Products from Mushroom of Manitoban Origin, **S. Zahid** and A. Ata, 88th Canadian Chemistry Conference and Exhibition, Saskatoon, May 28-June 01, 2005.
25. New Steroidal Alkaloids from *Buxus* Species, **Z. Babar** and A. Ata, 88th Canadian Chemistry Conference and Exhibition, Saskatoon, May 28-June 01, 2005.
24. New Bioactive Natural Products from Marine Soft Corals, **A. Ata**, 88th Canadian Chemistry Conference and Exhibition, Saskatoon, May 28-June 01, 2005.

23. Chemical Constituents of *Sinularia crassa*, **O. Zaporozan** and A. Ata, 88th Canadian Chemistry Conference and Exhibition, Saskatoon, May 28-June 01, 2005.
22. Bioassay-Guided Isolation of Bioactive Natural Products from an Unidentified Sponge, **L. Larson**, A. Ata and P. Holloway, 88th Canadian Chemistry Conference and Exhibition, Saskatoon, May 28-June 01, 2005.
21. Fungal Transformations of Sclerolide, **J. Bettridge** and A. Ata, 88th Canadian Chemistry Conference and Exhibition, Saskatoon, May 28-June 01, 2005.
20. Synthesis of Anti-Inflammatory Agents, **T. M. McDowell** and A. Ata, 88th Canadian Chemistry Conference and Exhibition, Saskatoon, May 28-June 01, 2005.
19. Synthesis of Anti-Inflammatory Natural Products, **T.M. McDowell** and A. Ata, Pfizer Undergraduate Symposium, Groton, CT, October 2004.
18. Marine Biodiversity of Indian Ocean-An Effort to Discover New Pharmaceuticals, **P. Radhika**, A. S. Dmiternok and A. Ata, IUPAC International Conference on Biodiversity and Natural Products: Chemistry and Medical Applications (ICOB-4 & ISCNP-24), New Delhi, India, January 26-31, 2004.
17. Discovery of New Bioactive Natural Products, **A. Ata**, 87th Canadian Chemistry Conference and Exhibition, London, Ontario May 29-June 01, 2004.
16. Microbial Transformations of Bioactive Natural Products, **L. J. Conci** and A. Ata, 18th Annual Western Canadian Undergraduate Chemistry Conference, University of Manitoba, Winnipeg, May 9-10, 2004.
15. Chemical Constituents of *Sinularia crassa*, **O. Zaporozan** and A. Ata, 18th Annual Western Canadian Undergraduate Chemistry Conference, University of Manitoba, Winnipeg, May 9-10, 2004.
14. Microbial Transformation of Bioactive Natural Products, **A. Ata**, 35th Great Lakes Regional Meeting of the American Chemical Society, Chicago, IL, United States, May 31-June 02, 2003.
13. Microbial Transformation of Bioactive Natural Products, **D. Holt**, A. Bayoud, J. A. Nachtigall and A. Ata, 44th American Society of Pharmacognosy Meeting, Chapel Hill, NC, USA, July 12-17, 2003.
12. Microbial Transformations of Bioactive Natural Products, **J. A. Nachtigall** and A. Ata, Pfizer Undergraduate Research Symposium, Groton, CT, USA, October 02, 2002.
11. Structural and Anti-Microbial Studies on the Chemical Constituents of a Marine Soft Coral, *Pseudopterogorgia elisabethae*, **H. Y. Win** and A. Ata, 16th annual Western Canadian Undergraduate Chemistry Conference, Calgary, May 9-12, 2002.
10. Chemical Constituents of *Pseudopterogorgia elisabethae*, **A. Ata** and R. G. Kerr, FAME-2001, FLACS Meeting, Orlando, May 12, 2001.
9. Structural Studies on Bioactive Natural Products from *Pseudopterogorgia elisabethae*, **A. Ata** and R. G. Kerr, Gordon Research Conference, California, USA, Feb. 27-Mar.03, 2000.
8. Biosynthetic Studies of the Pseudopterogorgia: In-Vitro and In-Vivo Experiments and Radio-Activity Guided Isolation and Characterization of Bicyclic Intermediate of Pseudopterogorgia, **A. Ata**, A. C. Coleman, and R. G. Kerr, Gordon Research Conference, California, USA, Feb. 27-Mar.03, 2000.

7. Biosynthesis of Pseudopterosins, A. C. Coleman, **A. Ata** and R. G. Kerr, FAME-2000, FLACS Meeting, Orlando, May 12, 2000.
6. Novel Bioactive Natural Products from *Pseudopteroorgia elisabethae*, **A. Ata** and R. G. Kerr, FAME-2000, FLACS Meeting, Orlando, May 12, 2000, P. 27.
5. Development of Biotechnological Methods for the Production of Pseudopterosins and Seco-Pseudopterosins-Marine Derived Anti-Inflammatory Agents, A. C. Coleman, R. S. Thornton, **A. Ata**, T. A. Fern and R. G. Kerr, Florida Sea Grant Summit, Tempa, Oct. 16-17, 2000.
4. Isolation and Structural Studies on Pseudopterosins, **A. Ata** and R.G. Kerr, FAME-99, FLACS Meeting, Orlando, May 07, 1999.
3. Chemical Studies on *Pseudopetroorgia* Sp., **A. Ata** and R. G. Kerr, South Florida American Chemical Society Annual Symposium, University of Miami, Florida, Jan 30, 1999.
2. Phytochemical Studies on *Buxus sempervirens*, **A. Ata**, Atta-ur-Rahman and M. I. Choudhary, 6th International Synposium-H.E.J. Research Institute of Chemistry, University of Karachi, Karachi-75270 , Jan 01-05, 1996.
1. Use of 2D-NMR Spectroscopic Studies on Structure Elucidation of *Buxus* Alkaloids, **A. Ata**, M. I. Choudhary, B. Sener and S. Turkoz, 19th IUPAC Symposium on Natural Products Chemistry, H.E.J. Research Institute of Chemistry, University of Karachi, Karachi, Jan 14-18, 1994

* *Students won prizes for these presentations.*