

Curriculum Vitae

Dr Manzoor Ahmad Mir

(M. Sc, CSIR-JRF-NET Ph. D, PGDHE)

Senior Assistant Professor (15600-39100+ GP-8000)

Department of Bioresources

School of Biological Sciences

University Of Kashmir



Positions Held

Nodal Officer Kupwara Campus of Kashmir University (2011-2012)

Coordinator Kupwara Satellite Campus of Kashmir University (2012-2019)

DIQA Nodal Officer of Bioresources Department KU (2017-2019)

Grievance Redressal Nodal Officer Bioresources Department KU (2018-2019)

Personal Information

Name : Dr. Manzoor Ahmad Mir
 Qualification : Ph. D From Jawaharlal Nehru University (JNU) New Delhi
 Awards : CSIR-JRF-NET (Three times)
 Mobile : 9622901319/ Resi-9596172817
 E mail : mirmanzoor110@gmail.com
drmanzoor@kashmiruniversity.ac.in

Objectives: To be a dedicated Teacher and Researcher in the field of Biosciences
 (Immunology of Tuberculosis, Cancer and Stroke)

Teaching Experience:

Twelve years of teaching experience in the field of Life Sciences (Immunology, Cell and Molecular biology, Animal Cell and Tissue Technology, Cancer biology, Stroke Immunology, Immunopathology, Physiology, Microbiology, Biodiversity, Environmental Sciences, Pathophysiology and Biochemistry.

Research Experience:

Ten years of research experience in the field of Immunology in addition to the doctoral (Ph. D) research experience at Council of Scientific and Industrial Research, Institute of Microbial Technology (CSIR-IMTECH) Chandigarh and Jawaharlal Nehru University New Delhi India.

Specialization:

Applied Immunology especially Cancer biology, Tuberculosis Immunology, Stroke Biology, Reverse Co-stimulation and signaling in Antigen Presenting Cells.

Technology Transfer:

Worked as a member of the team who developed immunosuppressive drug Cerulomycin-A. The technology of this drug was finally transferred to American Pharmaceutical Company Nostrom-Pharmaceuticals for 5 million dollars by IMTECH-CSIR Govt. of India in the year 2009.

Academic Background				
Degree/Certificate	Institute/University	Duration	Major Subjects	Marks/ Grades
Post-Doctorial Research Experience	SATCAS-MU (KSA)	2013-2015	Stroke Immunology	-
Post Graduate Diploma in Higher Education (PGDHE)	IGNOU New Delhi	2009-2011	Higher Education Management	A
Doctor of Philosophy (Ph. D)	Jawaharlal Nehru University (JNU-IMTECH) New Delhi	2005-2009	Immunology	A
Pre-Ph. D	Jawaharlal Nehru University New Delhi	2004-2005	Costimulation and Molecular Immunology	A ⁺
Post Graduate Diploma in Ecology and Environmental Engineering (PGDEEE)	Indian Institute of Ecology and Environment New Delhi	2002-2004	Ecology Environmental Conservation	76%
Master of Science (M. Sc.)	HNBG University Srinagar, Uttaranchal	2000-2002	Advanced Zoology	68%
Bachelor of Science (B. Sc.)	University of Kashmir Srinagar	1996-2000	Zoology Botany Chemistry	60%

Scholastic achievement:

- 1 Awarded **CSIR-JRF-NET Fellowship Three Times** Council of Scientific & Industrial Research (CSIR) MHRD held in December-2003 (**Roll. No 313837**), December-2004 (**Roll. No 322899**) and June-2005 (**Roll. No 328164**) Organized by MHRD Govt. of India)
- 2 Received **Teacher Research Associate Excellence Fellowship** by Science and Engineering Research Board Department of Science and Technology **SERB-DST Govt. of India** in the year 2018 Vide No. TAR/2018/001213 dated: 05-11-2018
- 3 Awarded **International Travel Grant** by University Grants Commission (UGC) under 12th five year plan to attend the 14th Annual Congress of **International Drug Discovery Science and Technology Nanjing, China** from 16th-19th November 2016 Vide No. F (Deputation MAK)Res/KU/16, Dated: Oct -1st 2016.
- 4 Awarded **First Prize** in Chandigarh Science Congress (**CHASCON-2008**) held at Post Graduate Institute of Medical Education and Research (PGIMER) and **Punjab University Chandigarh** in the year 2008.
- 5 Awarded **First Prize** in National Level Competition on **'Role of Media In National Integration'** at Academic Staff College, **Aligarh Muslim University Aligarh** in the year 2011.

EDUCATIONAL QUALIFICATION IN DETAIL

Degree Passed	University/ Board	College/ Institution	Year of Passing	Subjects	Marks/ Grade Obtained	Class/ Grade/ Division	Position/ Distinction
Ph. D	JNU New Delhi	IMTECH- CSIR Chandigarh.	2009	Immunopathology	Grade A	Grade A	First to receive the Ph. D Degree among the Batch
Pre-Ph. D	JNU New Delhi	IMTECH-CSIR Chandigarh.	2005	Molecular and Cellular Immunology	8.3/9.0 CPGA Grade	Grade A	Second topper in 2004 Batch
M. Sc.	HNBG Central University Srinagar UA	DAV PG College Dehradun UA	2003	Life Sciences (CSIR-JRF-NET)	798/1200	First	Topper in DAV PG College HNBGU
B. Sc.	University of Kashmir Hazratbal Srinagar	Govt. Degree College Bemina Srinagar	2000	Biosciences (Zoology, Botany, Chemistry, English)	1061/1800	First	—
PGDHE	IGNOU	Govt. College of Education Srinagar	2011	Higher Education Management 1-4	Grade A	Grade A	Topper in Batch Of 2010

Refresher and Orientation Courses completed

S. No	Name of training course	Year, month and time period	Place of training course University/Institute	Grade obtained
1	Orientation Course	01-02-2011 to 01-03-2011	UGC-HRDC ASC Aligarh Muslim University	A
2	Refresher Course in Research Methodologies	16-01-2012 to 08-02-2012	UGC-HRDC ASC University of Kashmir	A
3	Refresher Course in Bioscience	15-05-2017 to 03-06-2017	UGC-HRDC University of Kashmir	A
4	Refresher Course in Molecular Biology of Cell	23-10-2017 to 06-11-2017	Indian National Science Academy New Delhi	A

List of Lab Members Presently Enrolled/Registered with Dr Manzoor Ahmad Mir (2017-2018)

S. No	Name of Research Scholar	Registered for Degree	Exam qualified	Granting agency
1	Mr. Umer Mehraj Sheikh	Integrated Ph. D	JRF-NET	UGC-CSIR
2	Mr. Syed Suhail Hamadani	Integrated Ph. D	GATE	CBSE
3	Mr. Bashir Ahmad Sheikh	Integrated Ph. D	NET, SET	UGC-CSIR
4	Miss. Mahek Majeed	Integrated Ph. D	JRF-NET	UGC-CSIR
5	Mr. Sajad Ahmad Khaki	Integrated Ph. D	Inservice	Salaried

List of Masters Student's Completed Projects with Dr Manzoor Ahmad Mir (2017-2018)

S. No	Name of the Student	Enrolment No	Registration No
1	Miss. Najwa Shabir	15060119009	61697-w-2012
2	Mr. Aadil Manzoor	15060119005	26243-sj-2012
3	Mr. Gazie Shaban	15060119018	28238-IC-2010
4	Miss Snober Ali	16060119011	64343-W-2013
5	Miss Aqiba Jan	16060119012	61171-W-2012
6	Miss Durdana Bano	16060119014	47109-S-2012

Research Projects Completed/ongoing

S. No	S. No/ File No. of Project	Title of the project	Funding Agency
1	TAR/2018/001213 Dated: 05-11-2018	Elucidation of Molecular Basis ofTuberculosis Resistance of mycobacterium tuberculosis in Kashmir Valley	SERB-DST-India
2	P-3 SATCAS-03/2013/MU Dated: 06-10-2013	TNF receptor modulation and its impact on the cellular survivalin OGD model of stroke	SATCAS-MU-KSA
3	P-18 BHSRC-18/2014/MU Dated: 21-08-2014	Neuroprotective effect of E. densain cellular survival after cerebral ischemia in oxidative/inflammatory in vitro model of Stroke	BHSRC-MU-KSA

List of Five Representative International Books Published

1. **Manzoor A Mir and Raid S Albaradie (2015) Natural Herbs in the Prevention and treatment of Stroke** Nova Science Publishers USA. ISBN: 978-1-63483-555-8. 2015 Pp; 250. https://www.novapublishers.com/catalog/productinfo.php?products_id=55796&osCsid=f566022b445eb0546de60be510a3666b
2. **Manzoor A Mir (2015) Developing Costimulatory Molecules for Immunotherapy of Diseases** Elsevier Publishers USA ISBN (Print) ISBN (ebook) 9780128026755: 978-0-12-80-2585-7 26th May 2015, Pp 322 Publication URL:<http://store.elsevier.com/Developing-Costimulatory-Molecules-forImmunotherapy-ofDiseases/Manzoor-Ahmad-Mir/isbn-9780128026755/>
3. **Manzoor A. Mir, Raid S Albaradie and Malik D Alhusainwi (2014) Recent Advances in Stroke Therapeutics.** ISBN: 978-1-62808-521-4 (P), e-book ISBN: 978-1-63117-754-5 April 2014 Nova Biomed. Science Inc. Publishers USA. April, 2014. Pp 1-252. Publication URL: https://www.novapublishers.com/catalog/product_info.php?products_id=49332&osCsid=4c7e974c9cae59f2482a5ede69ff5af5
4. **Manzoor A Mir, Raid S Albaradie and Abdul R Alharbi Costimulation Immunotherapy for Autoimmunity, Transplantation and Lymphomas: 2013** ISBN:978-1-62808-519-8 Nova Science Publishers USA Publication URL: https://www.novapublishers.com/catalog/product_info.php?products_id=46107&osCsid=4c7e974c9cae59f2482a5ede69ff5af5
5. **Manzoor A. Mir, Raid S Albaradie and Javed N. Agrewala. (2013) Cancer and Infectious Diseases: Modern Approaches of Treatment** ISBN No. 978-3-659-39067-8 Lam. Pub. Germany. Publication URL: <http://www.amazon.com/Cancer-Infectious-Diseases-approaches-treatment/dp/3659390674>

List of 15 Representative Scientific Research Publications

1. Samara Hafeez, Mehwish Urooj, Shamlala Saleem,, Mohd Asif, **Manzoor A Mir** Ashraf Ali, Peter N Pushparaj, Mohammad Sarwar Jamal and Mahmood Rasool. (2016) BAD, a Proapoptotic Protein, Escapes ERK/RSK Phosphorylation in Deguelin and siRNA-Treated HeLa Cells. PLoS ONE 11(1): e0145780. doi:10.1371/journal.pone.0145780 Publication URL <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0145780>
2. Marta Mila, Marina Garriga, **Manzoor A Mir**, Raid Al-Baradie,, Mark Slevin and Jerzy Krupinski (2015) ¹²³I-FP-CIT SPECT imaging, clinical diagnosis of common types of dementia and contribution of ischemia to brain damage *Frontiers in Systems Neuroscience* July 2015: Vol 9 Article 99 PP 1-11 Publication URL: <http://journal.frontiersin.org/article/10.3389/fnsys.2015.00099/full>
3. **Manzoor A Mir** and Raid S Albaradie (2015) Immunomodulation of Inflammatory Markers in Activated Macrophages by Leaf Extracts of Ginkgo Biloba. *Advances in Neuroimmune Biology* 6(1) 9–17 ISSN No. 1878-948X (P) 1878-9498 (O). Publication URL: <https://content.iospress.com/articles/advances-in-neuroimmune-biology/nib150103>.
4. **Manzoor A Mir** and Raid S Albaradie (2015) Inflammatory Mechanisms as Potential Therapeutic Targets in Stroke *Advances in Neuroimmune Biology* 5 (2014) 199–216 ISSN No. 1878-948X (P) 1878-9498 (O) Publication URL: <http://iospress.metapress.com/content/c80h12i517r68097/?p=a770de5e3ec3426580f36714f0c799da&pi=0>
5. **Manzoor A Mir** (2014) TNF Receptor Modulation by Gentiana Extracts Acts as Neuroprotective Mechanism in Stroke by Enhancing Cellular Survival. *Stroke* 2014; 45(12) e26(e259-e298) Publication URL: <http://stroke.ahajournals.org/content/early/2014/11/04/01str.0000455918.04147.bf.full.pdf>
6. **Manzoor A Mir** Immunotherapy by reverse signaling inhibits the growth of Intracellular pathogens and cancer cells Proceedings of International Research Conference on Engineering, Science and Management, At Trident International Convention Centre Dubai UAE 2014 4th-5th June vol. 1(1) 55-60.
7. **Manzoor A Mir**, Raid S Albaradie and Agrewala JN. (2013) Innate-effector immune response elicitation against tuberculosis through Anti-B7-1 (CD80) and Anti-B7-2 (CD86) signaling in macrophages. *IJBPAS*, May, 2013, 2(5): 1024-1043 ISSN No. 2277–4998. Publication URL: <http://ijbpas.com/pdf/1366970831MS%20IJBPAS%202013%201450.pdf>

8. **Manzoor A Mir** and Raid S Albaradie. Tuberculosis time bomb a global emergency: urgent need for alternative vaccines. *Majmaah J. Health Sciences* 2013. Vol. 1 No. 1 Pp 87-93. ISSN: 1658-645X Publication URL: <http://www.mu.edu.sa/sites/default/files/11.%20Manzoor%20%2884-89%29.pdf>
9. **Manzoor A Mir** Raid S Albaradie Amal A Otaibi, and Jehan Y Elrazkey (2015) Effect of Supine Versus Semi-Fowler's Position on Hemodynamic stability of patients with Head injury. *World J of Phar Res.* Vol 4 Issue 4 pp 1559-1569 ISSN No. 2277-7105. Publication URL: <http://www.wjpr.net/download/article/1427890784.pdf>
10. **Manzoor A Mir**, Raid S Albaradie (2013) Hypersensitive allergic reactions are caused by Pollen abundantly found in air during the spring and autumn seasons *Int. J. Pure App. Biosci.* 1 (3): 68-80 (2013) ISSN: 23207051. Publication URL: <http://www.ijpab.com/form/2013%20Volume%201.%20issue%203/IJPAB-2013-1-3-68-80.pdf>
11. **Manzoor A. Mir** and Javed N. Agrewala. (2007) *Influence of CD80 and CD86 costimulation in the modulation of the activation of APCs.* *Curr. Immunol. Rev.* vol.3 No.3: Pp 160-169. ISSN No. 1875-631X (O) 1573-3955 (P) DOI: 10.2174/157339507781483487 Publication URL: <http://eurekaselect.com/78686>
12. **Manzoor A. Mir** and Javed N. Agrewala. (2008) *Signaling through CD80: an approach for treating lymphomas.* *Expert Opin. Ther. Targets* 12(8):Pp 1-11. (doi: 10.1517/14728222.12.8.969) Publication URL: <http://www.ncbi.nlm.nih.gov/pubmed/18620519>
13. **Manzoor A Mir** and Agrewala JN Influence of immunomodulation of CD80 and CD86 costimulatory molecules in the infectious diseases. "Proceedings of the International Conference on Biotechnological Approaches to Neuroimmunomodulation and Infectious Diseases", Dec.11-13, 2008, NIPER, S. A. S. Nagar Page Vol 2 No. 1 413-425.
14. **Manzoor A Mir**, Raid S Albaradie and Agrewala JN Reverse costimulation through anti-B7-1 and anti-B7-2 in the survival of Mycobacterium tuberculosis in antigen presenting cells. Proceedings of 5th International Conference of Microbiology and Biotechnology 2013 dated: 5th March 2013.
15. **Manzoor A. Mir** (2018) Impact of co-signaling on the survival of intracellular pathogens in antigen presenting cells. 2018 7(4): 360: Pp 3166-3183. ISSN; 23198354 Publication URL: http://www.ijarse.com/images/fullpdf/1545066735_2164_ijarse.pdf

Book Chapters Published in International Books

1. **Manzoor A Mir (2015) Concept of Reverse Costimulation and Its Role in Diseases**, ISBN No. 978-0-12-802585-7, DOI: [10.1016/B978-0-12-802585-7.00002-9](https://doi.org/10.1016/B978-0-12-802585-7.00002-9), Book Title : Developing Costimulatory Molecules for Immunotherapy of Diseases, Edition: First, Chapter: 2, Publisher: Elsevier Publishers USA, pp.45-81
URL: <https://www.sciencedirect.com/science/article/pii/B9780128025857000029>
2. **Manzoor A Mir (2015) T-Cell Costimulation and Its Applications in Diseases**, ISBN No. 978-0-12-802585-7, DOI: [10.1016/B978-0-12-802585-7.00006-6](https://doi.org/10.1016/B978-0-12-802585-7.00006-6), Book Title : Developing Costimulatory Molecules for Immunotherapy of Diseases, Edition: First Edition, Chapter: 6, Publisher: Elsevier Publishers USA, pp.255-292
URL: <https://www.sciencedirect.com/science/article/pii/B9780128025857000054>
3. **Manzoor A Mir (2015) Costimulation Immunotherapy in Allergies and Asthma**, ISBN No. 978-0-12-802585-7, DOI: [10.1016/B978-0-12-802585-7.00004-2](https://doi.org/10.1016/B978-0-12-802585-7.00004-2), Book Title: Developing Costimulatory Molecules for Immunotherapy of Diseases, Edition: First Edition, Chapter: 4, Publisher: Elsevier Publishers USA, pp.131-184
URL: <https://www.sciencedirect.com/science/article/pii/B9780128025857000042>
4. **Manzoor A Mir (2015) Introduction to Costimulation and Costimulatory Molecules**, ISBN No. 978-0-12-802585-7, DOI: [10.1016/B978-0-12-802585-7.00001-7](https://doi.org/10.1016/B978-0-12-802585-7.00001-7), Book Title: Developing Costimulatory Molecules for Immunotherapy of Diseases, Edition: First, Chapter: 1, Publisher: Elsevier Publishers USA, pp.1-43
URL: <https://www.sciencedirect.com/science/article/pii/B9780128025857000017>
5. **Manzoor A Mir (2015) Costimulation Immunotherapy in Infectious Diseases**, ISBN No. 978-0-12-802585-7, DOI: [10.1016/B978-0-12-802585-7.00003-0](https://doi.org/10.1016/B978-0-12-802585-7.00003-0), Book Title: Developing Costimulatory Molecules for Immunotherapy of Diseases, Edition: First, Chapter: 3, Publisher: Elsevier Publishers USA, pp.83-129
URL: <https://www.sciencedirect.com/science/article/pii/B9780128025857000030>
6. **Manzoor A Mir (2015) Introduction to Costimulation and Costimulatory Molecules**, ISBN No. 978-0-12-802585-7, DOI: [10.1016/B978-0-12-802585-7.00005-4](https://doi.org/10.1016/B978-0-12-802585-7.00005-4), Book Title: Developing Costimulatory Molecules for Immunotherapy of Diseases, Edition: First, Chapter: 5, Publisher: Elsevier Publishers USA, pp.185-254
URL: <https://www.sciencedirect.com/science/article/pii/B9780128025857000054>
7. **Manzoor A Mir (2015) An Introduction to Cerebrovascular Diseases** ISBN: 978-1-63483-555-8, Book Title: Role of Natural Herbs in Stroke Prevention and Treatment Chapter-1 Publisher: NOVA Science Publishers USA. pp. 1-36. URL: http://www.novapublishers.org/catalog/product_info.php?products_id=55796
8. **Manzoor A Mir (2015) Immunobiology of Stroke** ISBN: 978-1-63483-555-8, Book Title: Role of Natural Herbs in Stroke Prevention and Treatment Chapter-2 Publisher:

- NOVA Science Publishers USA. pp. 37-106. URL: http://www.novapublishers.org/catalog/product_info.php?products_id=55796
9. **Manzoor A Mir** (2015) **Natural Herbs, Human Brain and Neuroprotection** ISBN: 978-1-63483-555-8, Book Title: Role of Natural Herbs in Stroke Prevention and Treatment Chapter-3 Publisher: NOVA Science Publishers USA. pp. 107-168. URL: http://www.novapublishers.org/catalog/product_info.php?products_id=55796
 10. **Manzoor A Mir** (2015) **Natural Herbs in Stroke prevention and Treatment** ISBN: 978-1-63483-555-8, Book Title: Role of Natural Herbs in Stroke Prevention and Treatment Chapter-4 Publisher: NOVA Science Publishers USA. pp. 169-204. URL: http://www.novapublishers.org/catalog/product_info.php?products_id=55796
 11. **Manzoor A Mir** (2015) **Polyphenols from Natural Herbs in Neuroprotection** ISBN: 978-1-63483-555-8, Book Title: Role of Natural Herbs in Stroke Prevention and Treatment Chapter-5 Publisher: NOVA Science Publishers USA. pp. 205-238. URL: http://www.novapublishers.org/catalog/product_info.php?products_id=55796
 12. **Manzoor A Mir** Raid S Albaradie and Malik Alhasanavi (2014) **Immune System and Strokes** ISBN: 978-1-63117-754-5 Book Title: Recent Advances in Stroke Therapeutics Chapter-1 Publisher: NOVA Biomedical Science Publishers USA. pp. 1-24 URL: https://www.researchgate.net/publication/273061704_The_Immune_System_and_Strokes
 13. **Manzoor A Mir**, Raid S Albaradie and Malik Alhasanavi (2014) **Pathophysiology of strokes**, ISBN: 978-1-63117-754-5 Book Title: Recent Advances in Stroke Therapeutics Chapter-2 Publisher: NOVA Biomedical Science Publishers USA. pp. 25-80 https://www.researchgate.net/publication/273061843_Pathophysiology_of_Strokes
 14. **Manzoor A Mir**, Raid S Albaradie and Malik Alhasanavi (2014) **Stem cells and treatment of strokes**, ISBN: 978-1-63117-754-5 Book Title: Recent Advances in Stroke Therapeutics Chapter-5 Publisher: NOVA Biomedical Science Publishers USA. pp. 177-204. URL: https://www.researchgate.net/publication/273061933_Stem_Cells_and_Treatment_of_Strokes
 15. **Manzoor A Mir**, Raid S Albaradie and Malik Alhasanavi (2014) **Inflammation and Anti-Inflammatory Agents in Strokes**, ISBN: 978-1-63117-754-5 Book Title: Recent Advances in Stroke Therapeutics Chapter-3 Publisher: NOVA Biomedical Science Publishers USA. pp. 81-110. URL: https://www.researchgate.net/publication/273061916_Inflammation_and_Anti-Inflammatory_Agents_in_Strokes
 16. **Manzoor A Mir**, Raid S Albaradie and Malik Alhasanavi (2014) **Major Advances in the Treatment of Strokes**, ISBN: 978-1-63117-754-5 Book Title: Recent Advances in Stroke Therapeutics Chapter-4 Publisher: NOVA Biomedical Science Publishers USA. pp. 111-177. URL: https://www.researchgate.net/publication/273061926_Major_Advances_in_the_Treatment_of_Strokes

17. **Manzoor A Mir**, Abdul Rahman Obaid and Raid S Albaradie (2013) **Costimulation in the Treatment of Lymphomas**, ISBN: 978-1628085198, Book Title: Costimulation Immunotherapy for Autoimmunity, Transplantation and Lymphomas, Chapter-4, Publisher: Nova Science Publishers Inc. New York USA. pp. 150-172. URL: https://www.researchgate.net/publication/273061665_Costimulation_in_the_Treatment_of_Lymphomas
18. **Manzoor A Mir**, Abdul Rahman Obaid and Raid S Albaradie (2013) **Costimulation in the Treatment of Lymphomas**, ISBN: 978-1628085198, Book Title: Costimulation Immunotherapy for Autoimmunity, Transplantation and Lymphomas, Chapter-5, Publisher: Nova Science Publishers Inc. New York USA. pp. 173-197. URL: https://www.researchgate.net/publication/273061721_Costimulation_and_Infectious_Diseases
19. **Manzoor A Mir**, Abdul Rahman Obaid and Raid S Albaradie (2013) **Costimulation in the Autoimmune Diseases**, ISBN: 978-1628085198, Book Title: Costimulation Immunotherapy for Autoimmunity, Transplantation and Lymphomas, Chapter-3, Publisher: Nova Science Publishers Inc. New York USA. pp. 85-149. URL: https://www.researchgate.net/publication/273061607_Costimulation_in_the_Autoimmune_Diseases
20. **Manzoor A Mir**, Abdul Rahman Obaid and Raid S Albaradie (2013) **Regulation of Immune system by costimulatory molecules**, ISBN: 978-1628085198, Book Title: Costimulation Immunotherapy for Autoimmunity, Transplantation and Lymphomas, Chapter-1, Publisher: Nova Science Publishers Inc. New York USA. pp. 1-37. URL: https://www.researchgate.net/publication/273061636_Regulation_of_Immune_system_by_costimulatory_molecules
21. **Manzoor A Mir**, Abdul Rahman Obaid and Raid S Albaradie (2013) **Costimulatory Pathways in Transplantation Therapeutics**, ISBN: 978-1628085198, Book Title: Costimulation Immunotherapy for Autoimmunity, Transplantation and Lymphomas, Chapter-2, Publisher: Nova Science Publishers Inc. New York USA. pp. 37-84. URL: https://www.researchgate.net/publication/273061651_Costimulatory_Pathways_in_Transplantation_Therapeutics
22. **Manzoor A Mir** and Javed N Agrewala (2008) **Dietary Polyphenols in Modulation of the Immune System**, ISBN No. 978-1604563498, DOI: 10.13140/RG.2.1.4980.9449, Book Title : Polyphenols and Health: New and Recent Advances, Edition: First, Chapter: 10, Publisher: NOVA Science Publisher New York USA, pp.245-272 URL: https://www.researchgate.net/publication/273060751_Dietary_Polyphenols_in_Modulation_of_the_Immune_System

Awards, Fellowships & Scholarships at International/National Level

1. Awarded **Teacher Associate Research Excellence Fellowship** by Science and Engineering Research Board Department of Science and Technology SERB-DST Govt. of India in the year 2018 Vide No. TAR/2018/001213 dated: 05-11-2018
2. Awarded **Faculty Position** (Assistant Professor) in Immunology by **College of Medicine, Department of Immunopathology, University of Shaqra, KSA** for the year 2017 (1437) Vide No. 35114/53 Dated: 06-11-1437 (10th August 2016)
3. Awarded **International Travel Grant** by University Grants Commission (UGC) under 12th five year plan to attend the **14th Annual Congress of International Drug Discovery Science and Technology Nanjing, China** from 16th-19th November 2016 Vide No. F (Deputation MAK)Res/KU/16, Dated: Oct -1st 2016.
4. Received **International Travel Award** from Majmaah University KSA to attend the **European Stroke Research Organization Conference** at International Convention Centre Glasgow UK 2015.
5. Awarded **International Travel Award** to attend **Keystone Symposia at Silverthorne, Colorado Springs USA** by Deanship of Research Majmaah University KSA from 9th to 14th February 2014 Vide No. ITA/US/14/MU Dated: 03-01-2014.
6. Awarded **International Travel Grant** by University of Basra to attend the **5th International Conference on Microbiology and Biotechnology at Basrah University** from 2nd to 3rd April 2013 Vide No. F (Deputation/Int.Conf.)Res/KU/2059 Dated: March 30th, 2013.
7. Won **First Prize** in National Level Competition on '**Role of Media in National Integration**' at Academic Staff College, Aligarh Muslim University Aligarh in the year 2011.
8. Won **First Prize** in UGC sponsored **National Seminar on Sustenance of quality in Higher Education Some Initiatives** at Govt. College of Education Srinagar in the year 2011.
9. **Topped the Assistant Professor Selection List in Zoology** published by **Jammu and Kashmir Public Service Commission** on 30-10-2009.
10. Won the **FIRST PRIZE** in **Chandigarh Science Congress CHASCON-2008** at **Post Graduate Institute of Medical Education and Research (PGIMER)** and Punjab University Chandigarh in the year 2008.
11. Awarded Prestigious Senior **Research Fellowship SRF** by **CSIR Govt of India** in year 2006-2007.

12. **Qualified Junior Research Fellow-National Educational Test (JRF-NET)** conducted by UGC-CSIR Govt. of India in year 2005 under **Roll 328164**.
13. **Qualified Junior Research Fellow-National Educational Test (JRF-NET)** conducted by U.G.C-CSIR Govt. of India in year 2004 under **Roll 322899**.
14. **Qualified Junior Research Fellow-National Eligibility Test (JRF-NET)** conducted by UGC-CSIR Govt of India in year 2003 under **Roll 313837**.

Presentation of Research papers at International Conferences

1. Presented a papers entitled **“Immunomodulation of inflammatory markers in activated by macrophages by Leaf extracts of *Gingko biloba*”** at the 14th Annual Congress of International Drug Discovery Science and Technology Nanjing, China from 16th-19th November 2016
2. Presented a Paper entitled **“¹²³I-FP-CIT SPECT Imaging, clinical diagnosis of common types of Dementia and contribution of ischemia to brain damage”** Abstract No. ESOC-1339 at the **European Stroke Organization conference 2015** held in Glasgow Scotland UK on 17th -19th April 2015.
3. Presented a paper entitled **“Angiogenesis activation in hypoxia by targeting p35/Cdk5 signaling via CIP-Peptide.”** at the **Keystone Symposia International conference on Cellular and Molecular Biology** at Key Stone Resort Colorado USA from 9th to 14th February 2014.
4. Presented a Paper entitled **“ Impact of co-signaling on the survival of intracellular pathogens in macrophages”** at 1st International conference on recent developments in sciences, humanities and management-2018 held at **Cluster University Srinagar** on 17th -18th April 2018.
5. Presented a paper entitled **Reverse Costimulation regulates the growth of lymphomas** at the **International Keystone Symposia Prophylactic and Therapeutic antibodies** at Key Stone Resort Colorado USA from 9th to 14th February 2014.
6. Presented an invited Talk at the **First Kuwait International Conference on Life Sciences** on 7th of April 2014 entitled **“B cell Cancers and the concept of reverse signaling”** at Kuwait University.
7. Presented a paper entitled **“Assessment of Rising Man Bear Conflict in the Highly Militarized Zone of North Kashmir”** at the **21st International Conference on Bear Research and Management** organized by Wild life Institute of India, Wild life trust of India, IFAW, WSPA, BSG and International Bear Association from 26th -30th November 2012 at Indian Habitat Centre New Delhi India.

8. Presented a paper entitled **“Influence of immunomodulation of CD80 and CD86 Costimulatory Molecules in Infectious Diseases”** in **International Conference on Biotechnological Approaches to Neuroimmunomodulation to Infectious Diseases** at National Institute of Pharmaceutical Education and Research (NIPER) Mohali-Punjab in the Year 2009.

Presentation of Research papers at National Level

1. Presented a paper entitled **“Therapeutic implications of a plant derived retinoid: Degulin, against various cancer cell lines”** at DST sponsored National Conference on Recent advances in understanding the role of Phytochemicals in Human Health (**RAURPHH-2018**) held at Department of Food Science and Technology University of Kashmir on 25th-25th July 2018.
2. Presented a paper entitled **“ Exogenous supply of nitric oxide (NO) provides Reno-protection against a Diabetic rat model”** at SERB-DST sponsored **Animal Science Congress: Horizons in Zoological** studies held at Department of Zoology School of Biological Sciences University of Kashmir on 4th-6th August 2018.
3. Presented a paper entitled **“Applications of Nanobodies in therapeutic and diagnostic: New insights and recent advances”** at AFSTI sponsored two day National conference on Advances in Biopolymers held at Department of Food Science and Technology University of Kashmir on 30th-31st October 2018.
4. Presented a Paper entitled **“Macrophage activation by co-stimulation distinctly influences their antigen uptake and phagocytic potential”** at the **13th J&K Science congress** held at University of Kashmir on 2nd-4th April 2018.
5. Presented a Paper entitled **“Assessment of biochemical structural and functional parameters in diagnosed patients of Asthma and Chronic Obstructive Pulmonary Diseases”** at One Day National Seminar on **Biodiversity and climate change: challenges and prospects** on 26th of October 2017.
6. Presented a paper entitled **“Reverse Costimulation in the Survival of Intracellular Pathogens”** at **4th Jammu and Kashmir Science Congress at University of Kashmir Srinagar** in the Year 2008.
7. Presented a Paper entitled **“Contribution of Stroke towards vascular dementia: in search of new molecular and neuroimaging biomarkers”** at the National Seminar of **Indian Science Congress Association** themed National Development through Science and Technology on 25th and 26th September 2017.

8. Presented a paper entitled **“A Novel Bipyridyl Compound Showing Immunosuppressive Activity”** abstract No. Med/oral/12 at the 8th J&K Science Congress Science Technology & Regional Development: Opportunities & Challenges organized by J&K state council for science and technology and DST Govt. of India from 17th -19th September 2012.
9. Presented a paper entitled **“Role of Teacher in Science Education: Challenges Ahead”** at **UGC-Sponsored** One-day National Conference on Science Education: Challenges, Present status and future at Govt. Degree College Bemina Srinagar in the Year 2012.
10. Presented a paper entitled **“Role of Teachers in Quality Sustenance in Higher Education”** at UGC sponsored National Level Seminar on Sustenance of quality in Higher Education Some Initiatives at Govt. College of Education Srinagar in the year 2011.
11. Presented a paper entitled **“A Novel strategy to develop Immunotherapy against Intracellular Pathogens”** at 6th **Jammu and Kashmir Science Congress at University of Kashmir Srinagar** in the Year 2010.
12. Presented a paper entitled **“Application of Genome Informatics to understand pathogenicity in bacteria”** at a National Level seminar sponsored by DBT on Applications of Bioinformatics in Genome Research at **Pondicherry University** (February 2008).
13. Presented a paper entitled **“Role of CD80 and CD86 in the activation of Macrophages”** in the 33rd Indian Immunology Society Conference conducted by Immunology Society of India at Prestigious **All India Institute of Medical Sciences (AIIMS)** New Delhi in year 2007.
14. Presented a paper entitled **“bidirectional Costimulation a Two way street to activation”** at Department of Biochemistry Punjab **University Chandigarh**- 160036 India 2006
15. Presented a paper entitled **“Costimulation in the activation of macrophages and influence on Tuberculosis”** at **Chandigarh Science Congress Chandigarh** in the Year 2006 (First Prize).
16. Presented a paper entitled **“Costimulation in the activation of Antigen Presenting Cells”** in the 32rd Indian Immunology Society Annual Conference (**IMMCON**) at Postgraduate Institute of Medical Education and Research (**PGIMER**) Chandigarh in year 2005.
17. Presented a paper entitled **“HIV-TB Co-infection emerging trends”** at **Indo US CME at Post Graduate Institute of Medical Education and Research Chandigarh** (India) in the year 2004.

Invited Talks Delivered:

1. Delivered an invited talk on the topic entitled “Strokes in Saudi Arabia: The present and future” in the Stroke Awareness Seminar at King Khalid General Hospital, Almajmaah KSA on 16th January 2015.
2. Delivered an invited talk on the topic “Tuberculosis: A challenge to Humanity” in a three day Workshop on Anthropogenic Environmental Perturbations and Role of Environmental stewards in sustainable Environment on 24th to 26th April 2018 held at GDC Women Anantnag Higher Education Govt. of J&K.
3. Delivered an invited talk on the topic “HIV-AIDS Prevalence in J&K” in a week long Interdisciplinary Workshop entitled Relevance of Information Technology in Teaching Learning process from 20th to 26th March 2018 held at Islamia College of Science and Commerce Higher Education Govt. of J&K.
4. Delivered an invited talk on the topic entitled “Is stroke a preventable disease? TIA stratification/stroke prevention” at the Scientific Day for stroke Awareness at Majmaah University Almajmaah KSA on 10th April 2014.
5. Delivered an invited talk on the topic “Costimulation of Antigen Presenting Cells” to the participants of the 62nd General Orientation Course on 29-06-2013 at HRD-UGC Academic Staff College University of Kashmir
6. Delivered an invited talk on the topic “TB-HIV Co-infection a global emergence” to the participants of the 61st General Orientation Course on 11-03-2013 at HRD-UGC Academic Staff College University of Kashmir Hazratbal Srinagar-190006
7. Delivered an invited talk on the topic “Tuberculosis: A global emergency” to the participants of the 59th General Orientation Course on 22nd September 2012 at UGC Academic Staff College University of Kashmir Hazratbal Srinagar-190006
8. Delivered an invited talk on the topic “Reverse Signaling and Tuberculosis” to the participants of the 62nd General Orientation Course on 29th June 2013 at HRD-UGC Academic Staff College University of Kashmir Hazratbal Srinagar-190006
9. Delivered an invited talk on the topic “Tuberculosis-HIV Infection” to the participants of the 59th General Orientation Course on 22-09-2012 at UGC Academic Staff College University of Kashmir Hazratbal Srinagar-190006

10. Delivered an invited talk on the topic “HIV-AIDS the biggest challenge to humanity” to the participants of the 58th General Orientation Course on 17th May 2012 at HRD-UGC Academic Staff College University of Kashmir Hazratbal Srinagar-190006.
11. Delivered an invited talk on the topic “HIV-AIDS Tuberculosis Co-infection” to the participants of the 58th General Orientation Course on 17-05-2012 at HRD-UGC Academic Staff College University of Kashmir Hazratbal Srinagar-190006

Participations in Schools/Workshops/Conferences/Symposia

1. Participated in the **7th Annual Conference of Indian Academy of Biomedical Sciences an International Conference** organized by Indian Academy of Biomedical Sciences and SKIMS Srinagar at SKICC from 20th -22nd April 2018 and earned 12 CME Credit Hours as per the circular No. SMC/CME/Prog/18/229 dated: 09-01-2018.
2. Attended three weeks long **Refresher Course in Biosciences at UGC-HRDC Academic Staff College** University of Kashmir Srinagar from 15-05-2017 to 03-06-2017.
3. Attended **Indian National Science Academy New Delhi Refresher Course in Molecular Biology of Cell** at Department of Biochemistry School of Biological Sciences University of Kashmir Srinagar from 23-10-2017 to 06-11-2017.
4. Participated and presented a paper in **two day workshop on Advances in cell and molecular biology** organized by Cluster University Srinagar Kashmir on 27th-28th September 2017.
5. Participated in the Workshop on “**Scholarly Writing and Plagiarism**” jointly organized by **Springer nature** and Kashmir University on 14th December 2017.
6. Participated and delivered a talk at the **National Training Workshop on Plant Taxonomy: Principles and Practices** organized by **Centre for Biodiversity and Taxonomy (CBT)** at Department of Botany University of Kashmir from 27th to 29th March 2017.
7. Participated in the four day **2nd J&K Medical Science Congress 2017** organized by SKIMS/Directorate of Health Services Kashmir and jointly sponsored by **DST, DBT, ICMR and CSIR** from 10th to 13th 2017 held at SKICC Srinagar.
8. Attended the one day **National workshop on Stokes in Saudi Arabia: the common challenges** at King Khalid General Hospital Almajmaah Riyadh KSA on 18-01-2015 and earned 6 CME/CPD credit hours.
9. Participated in the **Stroke Workshop at Neuroscience Centre King Fahad Specialist Hospital Dammam KSA** organized by Stroke Research Chair (SATCAS) Majmaah University Almajmaah Riyadh KSA on 25th March 2015.

10. Participated and presented a paper in the **11th J&K Science Congress Scientific, Social and economic dimensions of climate change organized by DST Govt. of India and J&K state Science. Technology and Innovation Council** held at University of Kashmir Srinagar from 12-14th October 2015.
11. Participated in the **European Stroke Organization Conference (ESO-2015) at Glasgow Scotland UK** from 17th to 19th April 2015 and earned 10 CME/CPD credits.
12. Participated on the **Stroke awareness workshop of Sheikh Abdullah Tuwaijiri Chair for Applied Research Chair in Stroke (SATCAS)** held at Majmaah University KSA on 20-11-2014.
13. Participated in the Workshop entitled **“Future trends in Medical laboratories: Sub Programmes”** organized by Department of Medical Laboratories College of Applied Medical Sciences Majmaah University KSA held on 19th May 2014.
14. Participated in the **Scientific Day for Stroke Awareness** at Majmaah University Almajmaah Riyadh KSA on 10th April 2014 and earned 10 CME/PD credit hours vide accreditation No. (41777/2014) dated: 16-03-2014.
15. Participated in the **1st International Conference on Clinical Teaching/Learning in Nursing and Health Sciences CTN-HS** at King Saud Bin Abdulaziz University for Health Sciences Jeddah, Saudi Arabia in February 10- 12, 2014.
16. Participated in the **10 day long Earth Day-2013** organized by Department of Earth Sciences and Dean Students welfare at University of Kashmir from 22nd April to 2nd of May 2013.
17. Attended the **Elsevier Clinical Key Training Session at Majmaah University** Riyadh KSA on 11th September 2013.
18. Participated in the **National Workshop on Nanotechnology, Nano-sensors, Biophysics and its applications in Biomedicine** held at Majmaah University Riyadh KSA on 13-11-2013.
19. Attended **three weeks long Refresher Course in Research Methodologies at UGC-HRDC Academic Staff College** University of Kashmir Srinagar from 16-01-2012 to 08-02-2012.
20. Participated and presented a paper in the **National Seminar on science for shaping the future of India faunal diversity challenges and opportunities** held at University of Kashmir from 19th-21st November 2012.
21. Participated in the **World Environment day June 5th 2012** organized by Centre of Research and Development and Department of Environmental Sciences University of Kashmir on 5th of June 2012.
22. Participated in the **Wild Life Week organized by Department of Wildlife Protection Govt of J&K** from 2nd-8th October 2012 at Dachigam National Park Srinagar J&K.

23. Participated in the **two day National seminar on Catalyzing the growth of Aroma Industry in J&K** held on 2nd and 3rd July 2012 at CSIR-IIIM Jammu/Srinagar
24. Attended **four weeks long General Orientation Programme (OP-114) at UGC-HRDC Academic Staff College (ASC) Aligarh Muslim University** Aligarh UP from 01-02-2011 to 01-03-2011.
25. Participated in two day **SFRR Satellite India-2008 Conference** organized by the Department of Biochemistry **All India Institute of Medical Sciences (AIIMS)** New Delhi in 2008.
26. Participated as a delegate in the scientific session **Pharmaceutical Science and Medical Sciences at the 2nd Chandigarh Science Congress (CHASCON-2008)** organized by Punjab University in association with PGIMER, IMTECH, NIPER, CSIO, CFSL and PEC on 14th -15th March 2008.
27. Participated in a **CSIR workshop on Biosafety and Biosecurity in collaboration with Sandia National Laboratories Albuquerque, USA** at Institute of Microbial Technology Chandigarh in the year 2007.
28. Attended workshop on “**Computer Orientation Programme**” organized by the **Bioinformatics Division of** Institute of Microbial Technology Chandigarh.-160036 in 2007.
29. Participated in **INDO-US CME on HIV/AIDS** and Symposium on **Recent Advances in AIDS Research** organized by **New York University School of Medicine and PGIMER** Chandigarh-160036 in the year 2004

Reviewer/Member of Editorial Boards of Journals

1. **Clinical Epidemiology** Dove Medical Press New Zealand (ISSN 1179-1349)
2. **Springer Plus** by Springer (ISSN 2193-1801)
3. **Therapeutics & Clinical Risk Management** Dove Medical Press New Zealand (ISSN 1176-6336)
4. **CNS & Neurological Disorders** formerly Current Drug Targets Bentham Science (ISSN 1871-5273)
5. **Majmaah Journal of Health Sciences** Almajmaah KSA (ISSN 1658-645X)
6. **International Journal of Health rehabilitation Sciences** JPTS Jordan (ISSN 2278-9030)
7. **Global Journal of Engineering, Science & Social Science Studies** (ISSN- 2394-3084).
8. **Weber Agricultural Research & Management Journal** (ISSN:2449-1640)

Memberships of Societies

1. Member of **Indian Science Congress Association** Kolkata India
2. Member **Jammu and Kashmir Academy of Sciences**
3. Member of **Immunology Society of India** New Delhi India.
4. Member of **Zoological Society of India** Bodh Gaya India.
5. Member of the **Molecular Immunology Forum** India.

Techniques Acquainted with:

Microbiology:

Experience of working and handling virulent Mycobacteria (*M. tuberculosis* H37Rv) in BSL-3, culture and maintenance of *M. tuberculosis* H37Rv, *M. tuberculosis* H37Ra and *M. microti* in broth base (7H9 Broth), agar base (7H10 Agar with or without OADC or ADC) and on Lowenstein-Jensen slants.

Expertise in animal handling: (BSL-3 Laboratory)

Retro-orbital bleeding, bleeding from the ear lobe and immunization of animals (Mice, Rat, Guinea Pigs and Rabbit) for the generation of polyclonal antibodies etc. Infection of mice with *Mycobacterium tuberculosis*, *Mycobacterium. microti* etc

Tissue culture Related:

Maintenance of different mammalian cell lines (EL-4, WEHI-279, THP-1, HuT-78, JM-1, J774A.1, Jurkat, COS-7 etc.), experience of handling BALB/c, C57BL/6, C3He mice for isolation of peritoneal macrophages, splenocytes, Dendritic cells etc. Purification of naïve T cells and B cells by density gradient centrifugation, purification of dendritic cells from spleen and bone marrow, preparation of Baby rabbit complement, purification of monoclonal antibody from culture supernatant by using sepharose protein A and G columns and other cellular immunological techniques.

Instruments conversant with:

Flow-cytometer, Fluorescence microscope, Phosphor-Imager, Confocal microscope, Gel-doc, beta counter, Inverted microscope, Flourimeter and Luminometer, ELISA reader, Spectrophotometer, Sonicator, Centrifuges (RC5C, RC3C, table-top) etc.

Expertise in FACS

Acquisition and analysis: Immuno-fluorescence staining of cell surface molecules (Two colour as well as Multi-colour) and intracellular staining of cytokines, expertise in Cell Quest and FACS PRO-Software's of FACS acquisition and Analysis, Detection of apoptosis by PI staining.

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