

List of ten Best Research Articles:

*Nominee as corresponding author

1. Maroof, A., Zubair, S., Farazuddin, M., Ejaj, A., Arbab, K., Qamar, Z., Abida, M., Owais, M* (2013). Development, characterization and efficacy of niosomal diallyl disulphide in treatment of disseminated murine candidiasis. *Nanomedicine (Elsevier)* 9(2): 247-256. (Impact factor 6.70)

High lights: This is a first report describing development of essential oil and phytochemical based niosome formulation. Recently, we have developed curcumin, perillyl alcohol, eugenol and clove oil-based liposome/microcell formulations as well. The niosome based formulation addressed stability issues and enhanced the efficacy of allyl sulphides against treatment of candidiasis and other fungal infections.

2. Saba Tufail, Owais M*, Shadab Kazmi, Renu Balyan, Jasneet Kaur Khalsa, Syed Mohd. Faisal, Mohd. Asif Sherwani, Manzoor Ahmad Gattoo, Mohd Saad Umar and Swaleha Zubair (2014), Amyloid form of Ovalbumin evokes native antigen specific immune response in the host: prospective immunoprophylactic potential. *Journal of Biological Chemistry*. (Impact Factor: 4.65)

High lights: In the present study, amyloids assembled from the model protein ovalbumin (OVA) were found to release the precursor protein in a slow and steady manner over an extended time period. The study suggests that amyloids may act as depots for the native form of the protein and therefore can be exploited as vaccine candidates, where slow antigen release over extended time periods is a pre-requisite for development of desired immune response.

3. Tan, D., Zia, Q., Zubair, S., Stapleton, P., Singh, R., Owais, M*, Somavarapu, S. (2017) B Novel biodegradable poly (gamma-glutamic acid)-amphotericin B complexes show promise as improved amphotericin B formulations. *Nanomedicine: Nanotechnology, Biology, and Medicine (Elsevier)* pii: S1549-9634(17)30021-7. doi: 10.1016/j.nano.2017.02.003. (Impact Factor: 6.70)

High lights: The present study explores usage of γ -PGA based nano-particles as carrier of gold standard antifungal agent Amphotericin B. The novel PGA based formulation was found to be extremely efficacious and showed better efficacy as compared to liposome based commercially available AmpB nanoformulations in treatment of fungal infections in model animals.

4. Singha, H., Mallick, A. I., Fatima, N., Jana, C., Isore, B. P., Goswami, T. K., Srivastava, S. K., Azevedo V. A., Chaudhary, P., Owais, M*. (2008) Escheriosome entrapped DNA vaccine co-expressing Zn super oxide dismutase and IL-18 confers protection against Brucella abortus. *Microbes & Infection*: 10 (10-11): 1089-1096 [Impact Factor: 3.20]

Highlights: The DNA based nano-vaccine engineered in this study was found to be very effective in imparting protection against brucellosis, a very important zoonotic disease. The vaccine was superior to L7/L12 or Zn SOD protein-based vaccine in terms of prophylaxis as well as long lasting memory responses.

5. Ahmad F, Zubair, S, Gupta P, Gupta UD, Patel R, **Owais M.** (2017) Evaluation of Aggregated Ag85B Antigen for Its Biophysical Properties, Immunogenicity, and Vaccination Potential in a Murine Model of Tuberculosis Infection. **Front Immunol.** 8:1608. doi: 10.3389/fimmu.2017.01608. **[IF 6.70]**

Highlights: In the present study, amyloids assembled from Aggregated Ag85B Antigen were found to release the precursor protein in a slow and steady manner over an extended time period. The amyloids not only acted as depots, however, executed slow antigen release over extended time period, a pre-requisite for development of desired immune response. In addition, the amyloid bodies have been shown to fuse with the plasma membrane, and thereby successfully deliver encapsulated substances to the cytosol of the target cells. Finally, the in vivo administration of the Aggregated Ag85B was demonstrated to induce strong antigen-specific CTL response in the host.

6. Ansari MA, Zubair S, Mahmood A, Gupta P, Khan AA, Gupta UD, Arora A, Owais M*. (2011) RD Antigen Based Nano-vaccine Imparts Long Term Protection by Inducing Memory Response against Experimental Murine Tuberculosis. *PLoS One.* 6(8): e22889. Epub 2011 Aug 11. [Impact Factor 4.40]

Highlights: In this study we exploited strong immunopotentiating properties of archaebacteria lipids. Considering the non-effectiveness of BCG vaccine against tuberculosis we focused on RD gene products as potential prophylactic antigen. The nano-vaccine imparts long lasting protection against tuberculosis and paves the way for usage of archaeosome based vaccines against prophylaxis of tuberculosis.

7. Ejaj Ahmad, Munazza T Fatima, M Saleemuddin, M., Owais, M*. (2012) Plasma beads loaded with *Candida albicans* cytosolic proteins impart protection against the fungal infection in BALB/c mice *Vaccine* 30(48): 6851-6858. [Impact factor 3.80]

Highlights: We have recently reported a procedure for the preparation of plasma beads (PB) from autologous plasma, necessitating no addition of foreign enzymes/proteins, with remarkable potential for sustained drug/antigens delivery. In this paper we describe the use of the plasma beads for the delivery of *C. albicans* cytosolic proteins (Cp) for effective immunization of BALB/c mice. We propose that immunization with plasma beads, in view of induction of both humoral and cell-mediated immunity, may be highly effective in combating virulence of the *C. albicans*. Considering remarkable biocompatibility, biodegradability simple procedure required for the preparation from autologous plasma, the plasma bead may emerge as a useful vaccine delivery system.

8. Khan, A., Aijaz, A. K., Varun, D., Ahmad, M. G, Hakim, S., Owais, M* (2007) Tuftsin augments anti-tumor efficacy of liposomised etoposide against fibrosarcoma in swiss albino mice. *Molecular Medicine* 13 (5-6): 266-276. [Impact Factor: 6.02]

Highlights: In our earlier efforts we used tuftsin, a tetrapeptide with strong immune-potentiating properties, for treatment of range of infectious diseases. This is the first report highlighting potential of tuftsin bearing liposome in treatment of experimental fibrosarcoma.

9. Sharma, S. K., Deba, F., Bhattacharya, S., Bajpai, P., Agarwal, A., Owais, M*. (2006) Escheriosome entrapped soluble blood stage antigens impart protective immunity against a multi-drug resistant isolate of *Plasmodium yoelii nigeriensis* in BALB/c mice. *Vaccine* 24(7): 948-956. [Impact Factor: 3.60]

Highlights: In the present study we exploited fusogenic potential of lower microbe's plasma membrane lipids in development of novel liposomes. The liposomes were shown to deliver their contents in to cytosol of target cells and successfully activate both humoral as well as cell mediated immune response in the host. The subunit vaccine was shown to obliterate a multi-drug resistant isolate of *Plasmodium yoelii nigeriensis* in BALB/c mice.

10. Atif SM, Salam N, Ahmad N, Hasan IM, Jamal HS, Sudhanshu A, Azevedo V, Owais, M* (2009) Sperm membrane lipid liposomes can evoke memory immune response against encapsulated antigen in Balb/c mice. *Vaccine* 26(46): 5874-5882). [Impact Factor: 3.60].

Highlights: The sperm-ova fusion seems to be a nature's strategy of targeted gene delivery. We isolated lipids from sperm plasma membrane and developed sub-unit vaccine against experimental murine candidiasis.

11. Arun, C., Swaleha, Z., Saba, T., Asif, S., Sajid, M., Suri C. R., Amir, A., Owais, M* (2011) Fungus-mediated biological synthesis of gold nanoparticles: potential in detection of liver cancer. *International journal of Nanomedicine* 6: 2305-19. [Impact Factor: 4.97]

Highlights: This is a first report of exploiting *Candida albicans* cell extract for biomimetic synthesis of gold nano-particles. The antibody conjugated gold nano-particles were developed as bio-sensor for detection of liver cancer.

12. Chauhan, A., Swaleha Z., Ahmad N., Sajid AA, Ansari, MY, Owais, M*. (2014) Escheriosome mediated cytosolic delivery of Plk1 specific siRNA: Potential in treatment of liver cancer in Balb/c mice. *Nanomedicine (Future Medicine, London)* 9(4): 407-420. [Impact factor 5.40]

Highlights: Despite the considerable potential of RNAi in the treatment of cancer and various other disorders, several impediments demand appropriate attention before exogenous siRNA can be widely used as an effective therapeutic agent. The data of the present study clearly set up a foundation for the usage of EC-based formulations of siRNA against treatment of liver cancer in model animals. With in-depth understanding about the biological compatibility and behavior of new biomaterials in the tumor microenvironment, we will be able to design and develop more effective and sophisticated approaches for diagnostics and therapeutics.

13. Owais, M., (bench contributor) Varshney, G. C., Choudhury, A., Chandra, S., and Gupta, C.M. (1995). Chloroquine encapsulated in malaria-infected erythrocyte specific antibody bearing liposomes effectively controls Chloroquine resistant *Plasmodium berghei* infections in mice. *Antimicrobial Agent & Chemotherapy* 39: 180-184. [Impact Factor: 4.80]



Owais Mohammad

Professor of Molecular Immunology

nano vaccine

nanomedicine

liposome

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TITLE	CITED BY	YEAR
Synergistic combination of natural bioadhesive bael fruit gum and chitosan/nano-hydroxyapatite: A ternary bioactive nanohybrid for bone tissue engineering S Mirza, I Zia, R Jolly, S Kazmi, M Owais, M Shakir International journal of biological macromolecules		2018
Thermal unfolding of human lysozyme induces aggregation: Recognition of the aggregates by antisera against the native protein MT Alam, A Rizvi, MA Rauf, M Owais, A Naeem International journal of biological macromolecules 113, 976-982		2018
Facile one-pot multicomponent synthesis and molecular docking studies of steroidal oxazole/thiazole derivatives with effective antimicrobial, antibiofilm and hemolytic properties A Ansari, A Ali, M Asif, MA Rauf, M Owais Steroids 134, 22-36	1	2018
Ovalbumin self-assembles into amyloid nanosheets that elicit immune responses and facilitate sustained drug release S Tufail, MA Sherwani, S Shoaib, S Azmi, M Owais, N Islam Journal of Biological Chemistry, jbc. RA118. 002550		2018
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Synergistic Effect of Diallyl Sulfide With Zinc Oxide Nanorods: A Novel and Effective Approach for Treatment of Acute Dermatitis in Model Animals MA Rauf, S Zubair, H Ateeq, K Dabeer, S Pachauri, M Ajmal, M Owais Frontiers in microbiology 9		2018
Relationship between CNS and immunology, in relation to psychology. GM Ashraf, A Azhar, A Ali, M Rehan, Q Zia, M Owais, A Alexiou, A Rauf, ... Current drug metabolism		2018
Synthesis, characterization and in vitro screening of a nano-hydroxyapatite/chitosan/Euryale ferox nanoensemble—an inimitable approach for bone tissue engineering M Shakir, S Mirza, R Jolly, A Rauf, M Owais New Journal of Chemistry 42 (1), 363-371	1	2018
Resol based chitosan/nano-hydroxyapatite nanoensemble for effective bone tissue engineering M Shakir, R Jolly, AA Khan, SS Ahmed, S Alam, MA Rauf, M Owais, ... Carbohydrate polymers 179, 317-327	2	2018

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Pharmacologically significant tetraaza macrocyclic metal complexes derived from isatin and 3, 4-diaminobenzophenone: Synthesis, spectral studies and comparative in vitro ... M Shakir, N Bano, MA Rauf, M Owais Journal of Chemical Sciences 129 (12), 1905-1920	1	2017
Emerging role of Interleukins IL-23/IL-17 axis and biochemical markers in the pathogenesis of Type 2 Diabetes: Association with age and gender in human subjects N Fatima, SM Faisal, S Zubair, SS Siddiqui, S Moin, M Owais International journal of biological macromolecules 105, 1279-1288	1	2017
evaluation of aggregated ag85B antigen for its Biophysical Properties, immunogenicity, and Vaccination Potential in a Murine Model of Tuberculosis infection F Ahmad, S Zubair, P Gupta, UD Gupta, R Patel, M Owais Frontiers in immunology 8, 1608		2017
Biomimetically engineered Amphotericin B nano-aggregates circumvent toxicity constraints and treat systemic fungal infection in experimental animals Q Zia, O Mohammad, MA Rauf, W Khan, S Zubair Scientific reports 7 (1), 11873		2017
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PeMtb: A Database of MHC Antigenic Peptide of Mycobacterium tuberculosis Q Zia, A Azhar, S Ahmad, M Afsar, Z Hasan, M Owais, M Alam, S Akbar, ... Current pharmaceutical biotechnology 18 (8), 648-652	2	2017
Novel biodegradable poly (gamma-glutamic acid)–amphotericin B complexes show promise as improved amphotericin B formulations T Dinh, Q Zia, S Zubair, P Stapleton, R Singh, M Owais, S Somavarapu Nanomedicine: Nanotechnology, Biology and Medicine 13 (5), 1773-1783	2	2017
Design and Synthesis of Novel Nonsteroidal Phytoestrogen-based Probes as Potential Biomarker: Evaluation of Anticancer Activity and Docking Studies S Kumar, N Verma, S Zubair, SM Faisal, S Kazmi, S Chakraborty, ... Journal of Heterocyclic Chemistry 54 (4), 2242-2257		2017
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TITLE	CITED BY	YEAR
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TITLE	CITED BY	YEAR
Self-assembled amphotericin B-loaded polyglutamic acid nanoparticles: preparation, characterization and in vitro potential against Candida albicans Q Zia, AA Khan, Z Swaleha, M Owais International journal of nanomedicine 10, 1769	18	2015
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Development, characterization and efficacy of niosomal diallyl disulfide in treatment of disseminated murine candidiasis M Alam, S Zubair, M Farazuddin, E Ahmad, A Khan, Q Zia, A Malik, ... Nanomedicine: Nanotechnology, Biology and Medicine 9 (2), 247-256	27	2013
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Novel Vaccine Adjuvants A Agrawal, M Owais, UP Singh BioMed research international 2013		2013
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Antimicrobial Activity of Syzygium Aromaticum Oil and its Potential in the Treatment of Urogenital Infections A Ahmad, A Shaheen, M Owais, SS Gaurav Microbial Pathogens and Strategies for Combating them: Science, Technology ...	1	2013
Synthesis and antibacterial and antifungal evaluation of some chalcone based sulfones and bisulfones NK Konduru, S Dey, M Sajid, M Owais, N Ahmed European journal of medicinal chemistry 59, 23-30	44	2013

TITLE	CITED BY	YEAR
Plasma beads loaded with <i>Candida albicans</i> cytosolic proteins impart protection against the fungal infection in BALB/c mice E Ahmad, MT Fatima, M Saleemuddin, M Owais Vaccine 30 (48), 6851-6858	14	2012
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Synthesis and Characterization of Novel n-9 Fatty Acid Conjugates Possessing Antineoplastic Properties AA Khan, A Husain, M Jabeen, J Mustafa, M Owais Lipids 47 (10), 973-986	17	2012
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TITLE	CITED BY	YEAR
Toll Like Receptors in Dual Role: Good Cop and Bad Cop S Tufail, R Rajpoot, M Owais Recent Advances in Immunology to Target Cancer, Inflammation and Infections		2012
Ether lipid vesicle-based antigens impart protection against experimental listeriosis MA Ansari, S Zubair, S Tufail, E Ahmad, MR Khan, Z Quadri, M Owais International journal of nanomedicine 7, 2433	12	2012
Anticancer efficacy of perillyl alcohol-bearing PLGA microparticles M Farazuddin, B Sharma, AA Khan, B Joshi, M Owais International journal of nanomedicine 7, 35	22	2012
Synthesis and characterization of novel PUFA esters exhibiting potential anticancer activities: an in vitro study AA Khan, M Alam, S Tufail, J Mustafa, M Owais European journal of medicinal chemistry 46 (10), 4878-4886	19	2011
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