Data for updation of the Webpage

Dr. Monika Gandhi (Assistant Professor, USBT)

Research Interest

- Role of complement system in the patho-physiology of various autoimmune and inflammatory diseases.
- Molecular mechanisms involved in the etiology of recurrent spontaneous abortions.
- Development of potential plant based therapeutic agents for management of inflammatory responses of the immune system.
- Analysis of the genotypic distribution of the polymorphic forms of different genes of the complement system in relation to the inflammatory and autoimmune disorders.

Fellowships

- Department of Biotechnology fellowship during M. Sc (May 1997-April 1999)
- Department of Science and Technology fellowship (Research Assistant) (October 1999-May 2000)
- Lady Tata Memorial Scholarship (Junior Science) (June 2000-April 2001)
- Junior Research Fellowship funded by Council for Scientific and Industrial Research (CSIR), India (May 2001 till Mar 2003)
- Senior research Fellowship funded by CSIR (April 2003 till Nov 2003)

Membership

- Life member, Indian Immunology Society
- Member, Association of Clinical Biochemists of India

Publications

National

1. Singh Arpita and **Gandhi Monika**, 2010. Role of C3S and C3F Polymorphic Forms of Human Complement Component C3 in the Pathophysiology of Glomerulonephritis. The ICFAI Journal of Biotechnology. IV (4): 41-48.
2. Neha Zutshi, **Monika Gandhi** and Pushpa Kaul, 2010. CD46 polymorphism: A probable risk factor for recurrent spontaneous abortion in a northern Indian population. The National Medical Journal of India. 23 (2): 85-87.
3. Aruna Chatterjee and **Monika Gandhi**, 2009. Increased levels of complement receptor 1 on the surface of erythrocytes during normal pregnancy. The ICFAI Journal of Biotechnology III (4): 14-17.
4. **Gandhi, M**., Tiwari, S. C., Kumar, A., Dinda, A. K. and Das N., 2007.. Plasma C3d: Potential marker for disease activity in glomerulonephritis patients. The ICFAI Journal of Biotechnology 1(2):7-14.
5. **Gandhi, M.,** 2007. Complement receptor 1 (CR1) and the molecular pathogenesis of malaria (Review article). Indian Journal of Human Genetics 13(2):1-9.

International

1. Raj Shree and **Monika Gandhi,** 2016. Immuno-modulatory effect of Turmeric (Curcuma longa) and Aloe Vera on cultured Polymorphonuclear cells (PMN) and adherent mononuclear cells. WebmedCentral Obstetrics and Gynaecology, June.: WMC005113,
2. Riyaz Alam Mansoori , **Monika Gandh**i, 2012. Distribution of Complement Component 4 (C4) isotype - A null phenotype (C4AQ0) in normal healthy North Indian subjects. Asian JPOurnal of Biological and Life Sciences. Sep-Dec: 178-180.
3. **Neha Singh, Monika Gandhi**, 2011.. Altered levels of Fibrinogen in relation to the pathophysiology of recurrent spontaneous abortions. WebmedCentral Obstetrics and Gynaecology. 2(6):WMC001964

4. **Monika Gandhi**, Arpita Singh, Vas Dev, T. Adak, A.P. Dash & Hema Joshi, 2010. Role of CR1 Knops polymorphism in the pathophysiology of malaria: Indian scenario. J Vector Borne Dis. 46(9): 288–294.
5. **Monika Katyal**, S. C. Tiwari, Ashok Kumar, A. K. Dinda and Nibhriti Das, 2004. Association of Complement receptor 1 (CR1, CD35, C3bC4b receptor) density polymorphism with glomerulonephritis in Indian subjects. Molecular Immunology. 40(18): 1325.
6. **Monika Katyal**, S. C. Tiwari, Ashok Kumar, A. K. Dinda and Nibhriti Das. Genetic and structural polymorphism of Complement receptor 1 in normal Indian subjects. Immunol Lett. 2003, 89(2-3): 93
7. **Monika Katyal**, S. C. Tiwari, Ashok Kumar, A. K. Dinda and Nibhriti Das, 2002. E-CR1 expression and polymorphism in Indian subjects. International Immunopharmacology. 2(9): 1384
8. **Monika Katyal**, B. Sivasankar and Nibhriti Das, 2001. Complement receptor 1 in autoimmune disorders. Current Science. 81 (8): 907.

Conferences:

International

1. **Monika Katyal**, S. C. Tiwari, Ashok Kumar, A. K. Dinda and Nibhriti Das. E-CR1 expression and polymorphism in Indian subjects. FIMSA conference. Ayuthayya, Thailand (Oct, 2002) (Poster presentation)
2. **Monika Katyal**, S. C. Tiwari, Ashok Kumar, A. K. Dinda and Nibhriti Das. E-CR1 expression and polymorphism in Indian subjects. International Complement Workshop, Italy (Sep, 2002) (accepted for poster presentation and abstract published in International Immunopharamcology)
3. **Monika Katyal** and Nibhriti Das. Distribution of CR1 polymorphism in Indian population. Aegean Conference, Greece (Oct, 2001) (accepted for poster presentation)

National

1. Zutshi N, **Gandhi M** and Kaul P. Systemic levels of IL-4 and IgE in recurrent spontaneous abortions. (National Conference on Research, FOGSI, Nagpur). July, 2010.

2. Arpita Singh and **Monika Gandhi**. Role of CR1 Knops polymorphism in the pathophysiology of malaria: Indian Scenario. IX International Symposium on Vectors and Vector Borne Diseases, Puri, Orrisa (Feb, 2008) (accepted for poster presentation and abstract published in conference proceedings)

3. Arpita Singh and **Monika Gandhi**. Frequency distribution of C3S and C3F in normal healthy Indian subjects and glomerulonephritis patients, Indian Immunology Society Conference, AIIMS, New Delhi, India (Jan 2007) (Poster Presentation)

4. **Monika Katyal**, S. C. Tiwari, Ashok Kumar, A. K. Dinda and Nibhriti Das. CR1: Structural and genomic polymorphism, numerical expression and their correlations in Indian subjects. 29th Annual Conference of Association of Clinical Biochemists of India, Jaipur, India (Feb, 2003) (Oral presentation).

5. **Monika Katyal** and Nibhriti Das. Distribution of CR1 polymorphism in normal Indian subjects. Indian Immunology Society Conference, AIIMS, New Delhi, India (Oct, 2001Poster presentation)

6. Sadia Ayub, Mukta Sharma, B. Sivasankar, **Monika Katyal** and Nibhriti Das. Modulation of serum complement by Insecticide (Endosulfan and Malathion). Agra, India (Oct, 1999).