

PATENT

PCT (U.S.) Patent application number: 20080255043, published 16-10-2008.: Mahajan Lakshna, Sarma P Usha, Kishore Uday, Madan Taruna. "Human Lung Surfactant Protein, SP-D, Modulates Eosinophil Activation And Survival And Enhances Phagocytosis Of Apoptotic Eosinophils" (Indian patent Ref 153NF2006) [**Citations: 8**].

PUBLICATIONS IN NATIONAL AND INTERNATIONAL JOURNALS

1. **Mahajan, L.**, Saxena, S., Sarma, P. U. Phosphorus Compounds: Their Discovery in Biological World. **Indian J Clin Biochem.** **2018.** 33(3):243-245. [ISSN: 0970-1915].
2. Singh, M*, **Mahajan, L.***, Chaudhary, N., Kaur, S., Madan, T., Sarma, P. U. Murine models of Aspergillosis: Role of collectins in host defense. **Indian Journal of Experimental Biology (IJEB).** **2015.** Vol. 53(11):691-700. *(Both authors contributed equally). [**Impact factor: 0.934**, ISSN:0019-5189].
3. **Mahajan L**, Gautam P, Dodagatta-Marri E, Madan T, Kishore U. Surfactant protein SP-D modulates activity of immune cells: proteomic profiling of its interaction with eosinophilic cells. **Expert Rev Proteomics.** **2014** Jun;11(3):355-69. [**Impact factor: 2.973**, ISSN: 1744-8387, (**Citations: 18**)].
4. **Mahajan L**, Pandit H, Madan T, Gautam P, Yadav AK, Warke H, Sundaram CS, Sirdeshmukh R, Sarma PU, Kishore U, Surolia A. Human surfactant protein D alters oxidative stress and HMGAl expression to induce p53 apoptotic pathway in eosinophil leukemic cell line. **PLoS One.** **2013** Dec 31;8(12):e85046. [**Impact factor: 4.24**, ISSN · 1932-6203, (**Citations: 26**)].
5. Qaseem A. F., Sonar S., **Mahajan L.**, Madan T., Sorensen G. L., Shamji M. H., Kishore, U. **2013.** Linking surfactant protein SP-D and IL-13: Implications in asthma and allergy. **Mol Immunol.** **54**(1):98-107. [**Impact factor: 3.064**, ISSN: 0161-5890, (**Citations: 44**)].
6. Chaudhary N., **Mahajan L.**, Madan T., Kumar A., Raghava G. P., Katti S. B., Haq W., Sarma P.U.. **2009.** Prophylactic and Therapeutic Potential of Asp f1 Epitopes in Naïve and Sensitized BALB/c Mice. **Immune Netw.** 9(5):179-91. [**Impact factor: 3.111**, ISSN: 1598-2629, (**Citations: 3**)].
7. Upadhyay S. K., **Mahajan L.**, Ramjee S., Singh Y., Basir S.F., Madan T. **2009.** Identification and characterization of a laminin-binding protein of *Aspergillus fumigatus*: extracellular thaumatin domain protein (AfCalAp). **J Med Microbiol.** 58(Pt 6):714-22. [**Impact factor: 2.297**, ISSN: 1473-5644, (**Citations: 25**)].
8. **Mahajan L.**, Madan T., Kamal N., Singh V. K., Sim R. B., Telang S. D., Ramchand C. N., Waters P., Kishore U. and Sarma P. U. **2008.** Recombinant surfactant protein-D selectively increases apoptosis in eosinophils of allergic asthmatics and enhances uptake of apoptotic eosinophils by macrophages. **International Immunology.** 20(8):993-1007. [**Impact factor: 3.234**, ISSN 1460-2377, (**Citations: 41**)].

9. Beg Q. K., Kapoor M., **Mahajan L.** and Hoondal G.S.. **2001**. Microbial xylanases and their industrial applications: a review. **Appl Microbiol Biotechnol.** 56(3-4): 326-38. [**Impact factor: 3.689, ISSN: 1432-0614 (Citations: 1616)**].

CHAPTERS IN EDITED BOOKS

1. **Mahajan L.**, Thakur G., Kaur A., Bulla R., Kishore U., and Madan T. (2021). Chapter “Surfactant Protein D in Immune Surveillance Against Cancer” for book “The Collectin Protein Family and Its Multiple Biological Activities”, **Springer Nature Switzerland AG**, pp.147-163 (ISBN:978-3-030-67047-4), Edition Number:1
2. A. Archana, **Lakshna Mahajan**, Safikur Rahman, R. Minakshi (2019). Invited Chapter “Post Translational Modifications In Human Therapeutics Produced In Plant-Expression Systems” for book “Dar - Protein Modificomics” **Elesvier Publications**, pp. 145-169 (ISBN: 978-0128119136).
3. **Lakshna Mahajan** and Ram Singh. **2017**. Chapter on “Nutritional Deficiencies and Diseases associated with Alcoholism”, accepted for book “Alcoholism: Causes, Symptoms, Effects and Treatments”. **Manakin Press Private Limited**, New Delhi, India. ISBN 9789386677488
4. **Lakshna Mahajan**, Santosh K. Upadhyay, A. Archana, Poonam Gautam. **2016**. Chapter on “Gut microbiota and human health” (Chapter.ID_36581), accepted for book “Industrial Microbiology: Microbes in Action” (Book ID: 5599) **Nova Publishers, USA**. ISBN: 978-1-63484-491-8
5. Tapish Dogra, **Lakshna Mahajan**, Santosh K. Upadhyay and Poonam Gautam. **2016**. Chapter on “Human Pathogenic Fungi and their Survival Mechanisms in the Host” Chapter ID (Chapter ID: _36585), accepted for book “Industrial Microbiology: Microbes in Action” (Book ID: 5599) **Nova Publishers, USA**. ISBN: 978-1-63484-520-5
6. Rini Joshi, Tara Singh Bisht, **Lakshna Mahajan**, Poonam Gautam, Santosh Kumar Upadhyay. **2016**. Chapter on “Use of microbes in production of vaccines”, accepted for book “Industrial Microbiology: Microbes in Action” (Book ID: 5599) **Nova Publishers, USA**. ISBN: 978-1-63484-520-5.

PRESENTATION IN CONFERENCES

International Conferences:

1. Poster Presentation. **Mahajan L**, Pandit H, Gautam P, Surolia A, Kishore U and Madan T. Innate immune molecule Surfactant protein-D unraveled for its anti-leukemic activity. Feb **2014**. “5th International Conference on Translational Cancer Research- Multi- Targeted Approach to Treatment of Cancer, New Delhi”.
2. Oral presentation at “International Conference on Molecular Medicine”, to be held on 18th -20th January **2009**. **Lakshna Mahajan**, Taruna Madan, Neel Kamal, Vijay K. Singh, Robert B. Sim, Shaila D. Telang, Chaniyilparmapu N. Ramchand, Patrick Waters, Uday Kishore and P. Usha Sarma. “Recombinant surfactant protein-D selectively increases apoptosis in eosinophils of allergic asthmatics and enhances uptake of apoptotic eosinophils by macrophages” (at Indian Institute of Technology Madras, India).
3. Oral presentation at “Immunochemistry 1967-2008 meeting”, 18th July **2008**. **Lakshna Mahajan**, Taruna Madan*, Curam Sreenivasacharlu Sundaram, Chaniyilparmapu N. Ramchand, Shaila D. Telang, Ravi Sirdeshmukh, Uday Kishore, P. Usha Sarma. “Proteomic analysis provides molecular insight into eosinophil - SP-D interaction” (at Medical Research Centre, Immunochemistry Unit, University of Oxford, U.K. * presenter).
4. Poster presentation at an International Conference “**2006** AAAAI Annual Conference”, Florida, United States, 3rd -7th March 2006. **Lakshna Mahajan**, S. D. Telang, U. Kishore, V. K. Singh, C. N. Ramchand, P. U. Sarma, Taruna Madan. “Direct Interaction of Recombinant Human Surfactant Protein-D (rhSP-D) Modulates Human Eosinophil Activation, Their Rate of Apoptosis and Clearance by Macrophages”.
5. Poster presentation at “International conference on Chemistry Biology Interface: Synergistic New frontiers”, 21st-26th November, **2004**. **Lakshna Mahajan** , Sheila D. Telang , P.Usha Sarma and Taruna Madan. “Effect of Surfactant Protein A And D Binding To Human Neutrophils On Induced NADPH Oxidase Activity”.

National Conferences:

1. Oral presentation at “35th Indian Immunology Society Conference”, **2012**. **Lakshna Mahajan**, Taruna Madan, delivered by Dr. Madan on “Human lung Surfactant protein-D induces G2/M cycle arrest and apoptosis in human acute myeloid leukemia 14.3D10 eosinophilic cell line”.

2. Poster presentation at “34th Indian Immunology Society Conference”, 17th January **2008**. **Lakshna Mahajan**, Taruna Madan. “SP-D mediated specific induction of apoptosis in activated eosinophils is independent of SP-D mediated intracellular oxidative burst inhibitable by NAC”.
3. Poster presentation at “33 Indian Immunology Society Conference”, 28th –31st January **2007**. **Lakshna Mahajan**, V. K. Singh, S. D. Telang, C. N. Ramchand, U. Kishore, P. U. Sarma, Taruna Madan. “Recombinant Surfactant protein-D (rhSP-D) induces apoptosis in activated eosinophils”.
4. Poster presentation at “2nd National Conference of Biotechnology Society of India, BioTech 2004, Challenges & Opportunities”, 13th-15th October **2004**. **Lakshna Mahajan**, Sheila D. Telang, P.Usha Sarma and Taruna Madan. “Enhanced Release of Eosinophil Peroxidase and Reactive Oxygen Species from Human Eosinophils By Human Lung Surfactant Protein-A”.
5. Poster presentation at “National Conference of Electron Microscopic Society of India”, **2001**. Qasim Khalil Beg, **Lakshna Mahajan**, Gurinder Singh Hoondal. Electron Microscopic Study Of Bio-Bleaching Of Eucalyptus Pulp Using B-1,4-Endoxylanase From Streptomyces Sp. QG-11-3.

INVITED LECTURES

1. “Lung Surfactant Protein D - The Innate Immune Protector Molecule” at ‘National Seminar on Reaching The Unreached Through Science and Technology’, jointly organized by Indian Science Congress Association, Bhubaneshwar Chapter and Kalinga Institute of Industrial Technology (KIIT), Bhubaneshwar {17th -18th December, 2017}.
2. “Gutmicrobiota and human health” in a series of “Seminar on Top trends in Science, Technology and Business” held on 22nd Dec 2018 organized by Saskin Lifesciences Pvt. Ltd., Chennai.
3. Taught a short intensive course titled “Microbial Quality Control in Pharmaceutical Industries” at R.K. Electro Biotechnologies Research Centre, Perungudi, Chennai, from December 20-21, 2018, organized by SciGenom Research Foundation (SGRF) under Biotechnology & Bio Pharma Skill Enhancement **Program (B2SEP)**.

Currently, also Serving as a Coordinator of Delhi State in the Microbiologists Society, India 2021-22.