

CURRICULUM VITAE

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Educational Qualifications :

- M.Sc., M.Phil., Ph.D. (Zoology)

Areas of Research:

- Genital chlamydiasis
- *Chlamydia trachomatis* induced reactive arthritis
- Animal model of chlamydial infection

Membership of Scientific Bodies:

- Indian Immunological Society (Life Member)
- Society of Toxicology, India (Life Member)

Awards & Achievements:

- Principal Investigator- Immune responses to *Chlamydia trachomatis* infection in spontaneous aborters: Funded by LSRB, DRDO (2004-07).
- Principal Co-Investigator- Cytokine regulation in the immunopathogenesis of salpingitis / infertility due to *Chlamydia trachomatis* infection in women: Funded by DST (2002-06).
- Co-Investigator- Role of chlamydial heat shock proteins in the pathogenesis of genital tract infection in women: Funded by LSRB, DRDO (2003-07).
- Awarded Research Associateship (Direct Award) by CSIR (1993).
- Awarded Senior Research Fellowship (Direct Award) by CSIR (1990).

- Received Young Scientists Gold Medal (Society of Biosciences) in Seminar on Environment and Biodegradation (1991).
- Awarded Grade 'A' on M.Phil. (Zoology) dissertation (1987).
- Awarded IInd Position in M.Sc. (Zoology) merit list of CCSU (1984).

Research Experience:

- a) *C. trachomatis* Infection & Pregnancy:
 - Immunology of *C. trachomatis* infection in spontaneous aborters.
 - Oxidative stress in recurrent aborters infected with chlamydial infection.
 - Cytokines/ cyclo-oxygenases/ prostaglandin receptors in *C. trachomatis* infected women during missed abortion.
 - Diagnosis of STD pathogens including *C. trachomatis* infection in women.
 - Adverse obstetric outcome: Effect of treatment for *C. trachomatis* infection during pregnancy.

- b) *C. trachomatis* Infection & Female Infertility:
 - *In vivo* studies on development of experimental model of *C. trachomatis*-induced salpingitis in mice.
 - Th1/ Th2 cytokines during *C. trachomatis*-induced infertility in women.

- c) *C. trachomatis*-induced Reactive Arthritis (ReA):
 - Intra-articular detection of *C. trachomatis* in ReA patients.
 - *In vivo* studies on *C. trachomatis*-induced ReA.

Research Guidance:

- M.D. (Gyn. & Obstet.) Thesis: one
- M.Sc. (Microbiology) Dissertation: one
- M.Sc. (Biochemistry) Dissertation: Three
- Ph.D. (Microbiology): one (student registered with Jiwaji University, Gwalior)
- Ph.D. (Biosciences): Two (students registered with BITS, Pilani)

Research Publications:

- Chapter in Book- 01
- International journals- 11
- National journals- 08

Chapter in Book:

- **Rastogi, S.,** Rana, S.V.S. (1995). Perspectives in endocrine influences on drugs/ chemical hepatotoxicity. In: '**Toxicity and Monitoring of Xenobiotics**' (Eds. Prakash, R. and Sood, P.P.), Venus Publishing House, New Delhi, India, pp. 149-162.

List of Publications in peer reviewed journals:

- Mittal A, **Rastogi S**, Reddy BS, Verma S, Salhan S, Gupta E (2004). Enhanced immunocompetent cells in chlamydial cervicitis. **J Reprod Med**, 49 (8): 671-677.
- Reddy BS, **Rastogi S**, Das B, Salhan S, Verma S, Mittal A (2004). Cytokine expression pattern in the genital tract of *Chlamydia trachomatis* positive infertile women— Implication for T-cell responses. **Clin Exp Immunol**, 137 (3): 552-558.
- Vats V, **Rastogi S**, Kumar A, Ahmed M, Singh V, Mittal A, Jain RK, Singh J (2004). Detection of *Chlamydia trachomatis* by polymerase chain reaction in non-gonococcal urethritis male patients attending STD clinic. **Sex Transm Infect**, 80: 327-328.
- **Rastogi S**, Das B, Salhan S, Mittal A (2003). Effect of treatment for *Chlamydia trachomatis* during pregnancy. **Int J Gynecol Obstet**, 80: 129-137.
- **Rastogi S**, Das B, Mittal A (2002). Serum immunoglobulin M to *Chlamydia trachomatis* in pregnancy: Its usefulness for screening. **Br J Biomed Sci**, 59 (1): 30-34.
- Singh V, **Rastogi S**, Garg S, Kapur S, Kumar A, Salhan S, Mittal A (2002). Polymerase chain reaction for detection of endocervical *Chlamydia trachomatis* infection in Indian women attending gynaecology outpatient department. **Acta Cytol**, 46 (3): 540 -544.
- **Rastogi S**, Salhan S, Mittal A (2000). Detection of *Chlamydia trachomatis* antigen in spontaneous abortions. Is this organism a primary or secondary indicator of risk? **Br J Biomed Sci**, 57:126-129.
- **Rastogi S**, Kapur S, Salhan S, Mittal A (1999). *Chlamydia trachomatis* infection in pregnancy: Risk factor for an adverse outcome. **Br J Biomed Sci**, 56(2): 94-98.
- **Rastogi, S.** (1997). Effect of carbon-tetrachloride on rat liver, following parathyroidectomy—Histopathological observations. **Ind J Exp Biol**, 35(5): 443-447.
- **Rastogi, S.**, Salhan, S., Mittal, A. (1996). Prevalence of *Chlamydia trachomatis* infection in pregnant women by Giemsa cytology. **Indian J Sex Transm Dis**, 17(2): 61-65.
- Rana, S.V.S., **Rastogi, S.**, Roy, S.(1993c). Comparative study on liver catalase (E.C.1.11.1.6.:H₂O₂-H₂O₂ oxido-reductase) in animals. **Adv Biosci**,12 (2):1- 4.

- Rana, S.V.S., **Rastogi, S.** (1993b). Liver function in rats treated with carbon-tetrachloride after parathyroidectomy. **Proc Ind Nat Sci Acad (B)**, 59(2): 129-134.
- Rana, S.V.S., **Rastogi, S.** (1993a). Anti-oxidant enzymes in the liver of rats treated with carbon-tetrachloride after parathyroidectomy. **Physiol Chem Phy Med NMR**, 25 (1): 41-47.
- Rana, S.V.S., Kumar, S., **Rastogi, S.**, Sharma, V. (1992). Male sex hormone influences hepatotoxicity caused by hexachlorobenzene in rats. **Adv Biosc**, 11 (1): 33-40.
- Rana, S.V.S., **Rastogi, S.**, Verma, R. (1991c). Biological monitoring of occupational exposure to lead in Indian painters, battery-makers, petrol-pump workers and pottery-makers. **J Ecotoxicol Environ Monit**, 1(4): 302-306.
- Rana, S.V.S., **Rastogi, S.** (1991b). Effect of carbon-tetrachloride on collagen in the liver of parathyroidectomized rats. **Zool Jb Anat**, 121: 259-265.
- Rana, S.V.S., **Rastogi, S.** (1991a). Effect of parathyroidectomy on calcium and phospholipase A₂ in the liver of carbon-tetrachloride treated rats. **Physiol Chem Phy Med NMR**, 23(3): 173-176.
- Rana, S.V.S., **Rastogi, S.** (1990b). Influence of parathyroidectomy on fatty liver. **J Zool Soc**, 41(1-2): 83-88.
- **Rastogi, S.**, Rana, S.V.S. (1990a). Influence of parathyroidectomy on liver glycogen in rats treated with carbon-tetrachloride. **Ind J Exp Biol**, 28(8): 794-795.