

Biodata

Personal Particulars

- Name : Poonam Salotra
- Designation : Director-in-charge & Scientist G
- Place of work : National Institute of Pathology (ICMR), Safdarjung Hospital Campus, New Delhi – 110029, India

- Tel. No : 26198402, 26166124
- Fellow of the Indian National Science Academy, India (**FNA**)
- Fellow of the National Academy of Sciences, India (**FNASc**)
- Fellow of the National Academy of Medical Sciences, India (**FNAMS**).
- Fellow of The World Academy of Sciences (**FTWAS**).

Academic Qualifications

- B.Sc. Hons (Chemistry) from Delhi University in 1974.
- M.Sc. (Biochemistry) from P.G.I., Chandigarh in 1976.
- Ph.D. from V.P. Chest Institute, Delhi University in 1980.

Professional Appointments:

- Postdoctoral Fellow at Roche Institute of Molecular Biology, Nutley, New Jersey, U.S.A. (1980).
- Research Officer at Tuberculosis Research Centre, Madras (1982).
- Principal Investigator under Young Scientists scheme of Department of Science & Technology at Centre for Biotechnology, Jawaharlal Nehru University, New Delhi (1991).
- Pool Research Officer (CSIR) at Centre for Biotechnology, Jawaharlal Nehru University, New Delhi (1993).
- Senior Research Officer at Institute of Pathology (ICMR), New Delhi (1996).
- Assistant Director at Institute of Pathology (ICMR), New Delhi (2000).
- Deputy Director at National Institute of Pathology (ICMR), New Delhi (2005).
- Sr. Deputy Director (Scientist F) at National Institute of Pathology, New Delhi (2011-2015).
- Scientist G, at National Institute of Pathology, New Delhi (2015-till date).

Research & Teaching Experience:

- 30 years of total research experience.
- 18 years of teaching experience- M.Sc. (Biotech) at Jawaharlal Nehru University, New Delhi and PhD course work at National Institute of Pathology, New Delhi.
- Chief of Molecular Biology Lab at Institute of Pathology (ICMR), since 1996.
- Chief Supervisor for 18 PhD, 2 M.Phil. students; Co-supervisor for 1 M.D. (AIIMS).

Research Interests:

Worked on the molecular basis of pathogenesis of infectious diseases including Visceral Leishmaniasis (VL), Anthrax, Tuberculosis and Cholera. Currently working on development of diagnostic tests and attenuated vaccines, mechanism of drug resistance and characterization of immune responses in patients of VL, PKDL (post kala-azar dermal leishmaniasis) and cutaneous leishmaniasis.

Awards/Honours

Fellowship of Academies

1. Fellow of the National Academy of Medical Sciences, India (FNAMS), 2014.
2. Fellow of The World Academy of Sciences (FTWAS), 2014.
3. Fellow of the Indian National Science Academy, New Delhi, India, 2012.
4. Fellow of the National Academy of Sciences, India, 2008.

National Awards

5. Basanti Devi Amir Chand Award conferred by ICMR in the year 2006.
6. Prof. BK Aikat Award conferred by ICMR in 2004.
7. Kshanika Oration Award for Eminent Woman Scientist, conferred by ICMR in 2002.
8. National Science Talent Scholarship awarded by NCERT, New Delhi from 1971 to 1980.

Professional Recognition

9. Appointed member of Medical and Health Sciences Advisory Committee of the World Academy of Sciences (TWAS), 2016-2018.
10. Appointed member of the WHO Advisory Panel on Parasitic Diseases, 2013 to 2017.
11. Member of RTAG (Regional Technical Advisory Group), SEARO, WHO, 2012-2015.
12. Member, International Consortium for PKDL, since 2012.
13. Lab recognized as a **WHO Referral Centre** for confirmatory diagnosis and species identification in cases of KA and PKDL.
14. Member of WHO Expert Committee meeting on Leishmaniasis, Geneva, Switzerland, 2010.
15. Awarded ORISE Fellowship by Centre for Biologics Evaluation and Research (CBER), FDA, USA in 2010.
16. Awarded Global Health Travel award by Bill and Melinda Gates Foundation for presenting work at Keystone Symposium in Tahoe City, California, USA, 2007.
17. ICMR International Fellowship for Senior Biomedical Scientists for the year 2006.
18. Awarded Courtesy Fellowship by CBER, FDA, USA in 2005.
19. Awarded fellowship by National Foundation of Infectious Diseases, USA in 2005.
20. Granted ICMR Award for Excellent Research output in 2004.
21. Silver Jubilee award by Indian Association of Medical Microbiology in 2003.
22. Awarded Courtesy Fellowship by CBER, FDA, USA in 2003.

Patents

1. US Patent No. 6,855,522, entitled “Species-specific PCR assay for detection of *Leishmania donovani* in clinical samples of kala-azar and post kala-azar dermal leishmaniasis”(2002).
2. Indian patent no. 243725 for “Live attenuated *Leishmania* vaccines” (2006).
3. US patent no. 7887812 for “Live attenuated *Leishmania* vaccines” (2011).
4. Indian patent filed (application no. 349/DEL/2014) for “Loop mediated isothermal amplification (LAMP) assay for a reliable and rapid diagnosis of *Leishmania* infection” (2014). Published on 31/08/2016.

Membership of Professional Associations

1. Indian Society for Parasitology (Life member)
2. Society of Biological Chemists, India (Life member).
3. Association of Clinical Biochemists of India (Life member)
4. Indian Association of Medical Microbiologists (Life member)
5. Indian Immunology Society (Life member).
6. Member of Molecular Immunology Forum, India.

Membership of Advisory Boards

1. Member of TWAS Advisory Committee in Medical and Health Sciences (2016-2018).
2. Member, Advisory Committee of Shanti Swarup Bhatnagar Prize for Science and Technology in Biological Sciences, CSIR, New Delhi, 2016.
3. Member of the WHO Advisory Panel on Parasitic Diseases (Leishmaniasis) from 2013 to 2017.
4. Member of Scientific Advisory Committee (SAC) of RMRI Patna, 2016
5. Member of Project Review Committee at BIRAC, DBT, India, from 2015.
6. Member of RTAG (Regional Technical Advisory Group), SEARO, WHO, 2012- 2015.
7. Member of WHO advisory Panel on Parasitic Diseases during 2009-2013.
8. Member of Peer review committee (PRC) at ICMR, from 2008 till date.
9. Member of Scientific Advisory Committee at National Institute of Communicable Diseases (NICD), Delhi, from 2003 to 2006.

Editor to Journals: Associate Editor, BMC Infectious Diseases

Invited reviewer for

1. PLoS Neglected Tropical Diseases 2. Journal of Immunology 3. Molecular and Biochemical Parasitology 4. Journal of Antimicrobial Chemotherapy 5. Antimicrobial Agents & Chemotherapy 6. Parasitology Research 7. Journal of Clinical Microbiology 8. British Journal of Dermatology 9. FEMS Microbiol Letters 11. Indian J Medical Research 12. PLoS One 13. Vaccine 14. Scientific Reports. etc.

Conferences /Meetings attended (from 2003)

International (from 2003)

1. Invited participant at the 13th General Conference and 26th General Meeting of The World Academy of Sciences (TWAS) at Vienna, Austria, in Nov 2015.
2. Participated and presented work on drug resistance at 5th Central European Symposium on Antimicrobials and Antimicrobial Resistance (CESAR) 2015, at Sibenik, Croatia in Sep, 2015.
3. Invited delegate and chairperson of the session on "Case detection and Surveillance" at "Kala-azar Elimination Program" partners' consultative meeting held at WHO, Geneva, Switzerland in Feb, 2015.
4. Invited speaker at the 4th PKDL Consortium meeting held at Istanbul, Turkey in Dec, 2014.
5. Invited speaker at the 3rd International Conference on Clinical Microbiology and Microbial Genomics, held at Valencia, Spain in Sep, 2014.
6. Member of 5th Regional Technical Advisory Group, WHO meeting held at Paro, Bhutan, Sep, 2013.
7. Member of Indian delegation for promoting Indo-Africa collaboration to Pasteur Institute, Tunis, Tunisia, May, 2013.
8. Invited speaker at 5th World Leishmania Congress held at Brazil, May, 2013.
9. Invited speaker at 61st Annual Meeting of American Society of Tropical Medicine and Hygiene (ASTMH), Atlanta, USA in Nov, 2012.
10. Chaired the session on Open dissemination meeting of Kaladug-R project workshop held at Kathmandu, Nepal, Sep, 2012
11. Participated in Gordon Research Conference on Drug resistance held at USA, July, 2012.
12. Invited participant at the Workshop and Steering Committee meeting under a vaccine development project funded by European Commission held at Toulon, France in Feb, 2012.
13. Invited participant at International Symposium on Vaccines: From Discovery to Translation held at Surajkund, New Delhi, India on Nov, 2011.
14. Invited speaker at the "Advanced WHO-IRTC/UNIL course on Immunology, Vaccinology and Biotechnology applied to Leishmaniasis" at Lausanne, Switzerland in Oct, 2011.

15. Invited participant at the Workshop under a European Commission funded project on drug resistance, held at Berlin, Germany in Sep, 2011.
16. Invited participant at the Workshop at Strathclyde University, Glasgow, UK, June, 2011.
17. Presented work at 15th Annual Conference on Woods Hole Immuno-Parasitology (WHIP) conference held at MA, USA, in Apr, 2011.
18. Invited participant at the Workshop and Steering Committee meeting under a vaccine development project funded by European Commission held at Lima, Peru in Feb, 2011.
19. Participated in symposium on “Prevention, Treatment and Control of Leishmaniasis, Trypanosomiasis and Chagas disease” held at Pasteur Institute, Paris under organization by European Commission in Sept, 2010.
20. Attended the Workshop and Steering Committee meeting under a vaccine development project funded by European Commission held at Lyon, France in June, 2010.
21. Invited participant at WHO Expert committee meeting on Leishmaniasis held at Geneva in March, 2010.
22. Chaired the session on “Drug resistance and mechanism” at World *Leishmania* Congress IV held at Lucknow in Feb,2009.
23. Invited speaker in symposium on “Diagnostics and test of cure for Visceral leishmaniasis” organized by Infectious Disease Research Institute, Seattle, USA at World Leishmania Congress IV held at Lucknow in Feb,2009.
24. Gave a seminar at the Institute for Microbiology & Hygiene, Charite University, Berlin, Germany in June, 2008.
25. Invited speaker in a conference of Interdisciplinary Forum on Leishmaniasis at Heidelberg, Germany in Apr, 2008.
26. Chairperson in a conference on "Integrated functional genomics on the road to Leishmaniasis control" at Dormy House, Worcestershire, UK in Sep, 2007.
27. Presented work at meeting of Parasitology Interest Group at CBER, FDA, Bethesda, MD, USA in June, 2007.
28. Selected as ICMR International Fellow for Research at Royal Melbourne Hospital, Melbourne, Australia in Mar, 2007.
29. Participated in Keystone symposium in California, USA in Jan, 2007.
30. Invited participant at Scientists forum on “How to enhance Indo German Research Cooperation?” At German House, New Delhi in Mar, 2006.
31. Invited participant in Indo-Swedish Parasitology Meet at Goa in Dec, 2005.
32. Participated in The Eighth Annual conference on vaccine at Baltimore, USA, May, 2005.
33. Invited speaker for a round table on advances in diagnostics of Leishmaniasis at World *Leishmania* Congress at Sicily, Italy, Apr, 2005.
34. Presented paper in the 15th European Congress of Clinical Microbiology and Infectious Diseases, held at Copenhagen, Denmark, Apr, 2005.
35. Invited speaker at workshop on Intracellular pathogens sponsored by Fogarty International centre of NIH, US at India Habitat Centre, Delhi, Mar, 2005.

36. Invited participant in an Indo-German workshop on Leishmaniasis at Humboldt University, Berlin, Germany, July, 2004.
37. Presented work in Indo-German Seminar at IICB, Kolkata, Dec, 2003.
38. Participated in “The Genomic Policy Executive Course” conducted as an Indo-Canadian initiative by ICMR and the Canadian Program on Genomic and Global Health, University of Toronto, Canada, at Kochi, Kerala, Jan, 2003.

National (from 2003)

1. Invited participant for " Science Promotion Committee Meeting " held at Indian National Science Academy (INSA), New Delhi, Sep 2016.
2. Attended meeting on " India Africa Health Sciences meet" at Vigyan Bhawan, New Delhi in Sep, 2016.
3. Member, Advisory committee of Shanti Swarup Bhatnagar Prize for Science and Technology 2016 in Biological Sciences, CSIR, New Delhi in Sep, 2016.
4. Invited Consultant for DNDi-RMRI collaborative project on PKDL, at RMRI, Patna in June, 2016.
5. Attended and Presented work on "Diagnostics for VL and PKDL" at "Brainstorming meeting of Vector Borne Diseases Science Forum" held at ICMR, Delhi in Feb, 2016.
6. Member of Scientific Advisory Committee (SAC) of RMRI Patna in Jan, 2016
7. Invited participant at Consultative meeting of ICMR and DNDi, PHD house, Delhi Dec 2015.
8. Member of Technical Advisory Committee Meeting at Hyderabad for BIRAC project Dec, 2015.
9. Conference on "New R&D Pathways to Address Neglected Diseases' Needs in the Indian Sub-continent" organized by DNDi, New Delhi at India International Centre, New Delhi in Oct 2015.
10. Member of technical Advisory Committee Meeting at Chennai for BIRAC project June, 2015.
11. Invited member of Technical Specification Committee meeting regarding Kala-azar elimination program held at Nirman Bhawan, New Delhi, April 2015.
12. Participated in Informal Expert Consultation on Kala-azar, WHO-SEARO, Delhi, March, 2015.
13. Attended a meeting at National Institute of Immunology as a committee member for discussion of a new potential vaccine against leishmaniasis organized by DBT, New Delhi, Feb 2014.
14. Invited participant in the DBT-BCIL Mentorship Workshop for Women Scientist on "Writing Effective Scientific Proposals" at INSA, July, 2013.
15. Appointed on board of selection committee for award of INSPIRE faculty fellowship interviews held at DIPSAR, New Delhi, May 2013.
16. Invited Speaker at the Work-shop “Indo-US Vaccine Action Programme Twenty Five Year Celebration (1987-2012)” held at National Institute of Immunology, New Delhi, Sep, 2012.
17. Attended WHO Informal Consultative Meeting in preparation for PKDL case management and control guidelines held at Kolkata, India, July, 2012.
18. Invited speaker at International meeting on “Post Kala Azar Dermal Leishmaniasis” held at New Delhi, June, 2012.
19. Participated in “Molecular Diagnostics Challenges Vis-à-vis Growth Potential” meeting held at Indian Habitat Centre, New Delhi, June, 2012.

20. Invited participant in 1st Annual meeting on Kala Azar Alleviation Initiative held at Mapples Hotel, New Delhi, Mar, 2012.
21. Participant in Brain storming meeting of Vector science forum on Japanese Encephalitis and Visceral and Cutaneous Leishmaniasis held at NIP, Delhi in Feb, 2012.
22. Invited speaker in workshop on Monitoring of Clinical outcomes of Kala-Azar in the Health system & surveillance of drug resistance, held at Surajkund, Jan, 2012.
23. Invited participant Kala-azar Alleviation Initiative meeting held at Mapples Hotel, New Delhi, Mar, 2012.
24. Invited as a member of the PRC meeting on Malaria Leishmania and Filariasis held at ICMR HQ, New Delhi in 2010 and 2011.
25. Invited to attend a joint ICMR-DNDi consultation meeting on treatment options for VL in April 2010 at ICMR Hqrs. Office, New Delhi, India.
26. Participated in WHO sponsored meeting on “ An Indian innovation networking meeting to review the mapping results and discuss strategic plans for part of the proposed Asian Network for drugs and diagnostics innovation held at NII, New Delhi in Apr,2010.
27. Invited speaker at National CME Dermatology held at AIIMS, New Delhi in Apr, 2010.
28. Delivered a talk on Drug resistance in Visceral Leishmaniasis in India at 97th session of Indian Science Congress held at University of Kerala, Thiruvananthapuram in Jan, 2010.
29. Invited participant at workshop on Policy issues in Kala azar held in New Delhi in Nov, 2009.
30. Participated in Molecular Immunology Forum meeting at Alibagh, Mumbai, Mar, 2009.
31. Delivered a talk at CDRI, Lucknow in Dec, 2008.
32. Invited speaker at ACBICON held at New Delhi in Dec, 2007.
33. Invited speaker at WHO-GTZ sponsored workshop at Taj Ganges, Varanasi in Apr, 2007.
34. Invited speaker in Annual meeting of Biomedical Scientists at Kerala University, Nov, 2006.
35. Invited speaker in Medical Development Congress at Assocham House, Delhi in Sep, 2006. Participated in a Workshop on “Ethical Review for Protection of Human Participants involved in Research” organized by ICMR and sponsored by Fogarty, NIH, USA, held at Assocham House, New Delhi in Apr, 2006.
36. Invited participant in technical consultation on National Vector borne Disease Control program at National Agriculture Science Complex in Mar, 06.
37. Invited speaker at Molecular Immunology Forum organized by Regional Medical Research Centre(ICMR) Bhubaneswar, in Jan, 2006.
38. Participated in 32nd annual conference of Assoc Clin Biochem India, Patna, in Dec, 2005.
39. Invited speaker in 32nd Meet of Indian Immunology Society at PGI, Chandigarh, Nov, 2005.
40. Presented work at Saha Institute of Nuclear Physics, Kolkata in Jan, 2005.
41. Invited speaker at meeting organized by Bill and Melinda Gates foundation to discuss Visceral Leishmaniasis elimination program in South Asia at Hotel Taj, New Delhi in Jan, 2005.
42. Presented paper in Sir Dorabji Tata Symposium at Bangalore, Mar, 2004.
43. Presented work at Annual meet of Indian Association of Medical Microbiologists at Mumbai, Nov,2003.
44. Presented paper in 29th Annual Conference of Association of Clinical Biochemists of India at Jaipur, in Feb, 2003.

Extramural funded projects:

1. Project funded by **ICMR** entitled "Investigations on paromomycin resistance in *Leishmania donovani* using molecular and biochemical tools" (2015-2018). **PI**
2. Project funded by **ICMR** entitled "Identification and characterization of artemisinin resistance associated genes in *Leishmania*". (2015-2018). **Co-I**
3. Project funded by **ICMR** entitled "Evaluation of immune status and parasite load in patients of post kala azar dermal leishmaniasis (PKDL) in response to treatment with miltefosine and amphotericin B" (2015-2018). Approved July 2015. **PI**
4. Project funded by **DBT** entitled "Development of new live attenuated vaccine candidates for kala-azar" (2011-2015). **PI**
5. Project funded by **DBT** entitled "Protective immunogenicity of Centrin KO live attenuated *Leishmania* parasite in the animal models and in the human cells" (2011-2014). **PI**
6. Principal investigator in the Project funded by **European Commission** entitled "New tools for monitoring drug resistance and treatment response in Visceral Leishmaniasis in the Indian subcontinent" (2009-2013). **PI**
7. Principal investigator (India) in the Project funded by **European Commission** entitled "Pre-clinical studies of a PSA based human vaccine candidate targeting visceral, cutaneous and mucocutaneous Leishmaniasis and Development of the associated procedures for further clinical trials" (2009-2012).
8. Principal Investigator in project funded by **ICMR** entitled "Transcriptome Profiling for identification and characterization of Miltefosine resistance associated genes of *Leishmania donovani*". (2009-2012). **PI**
9. Principal Investigator in project entitled "Parasite surface antigen-2 (PSA-2) of *Leishmania donovani*: studies on its role in parasite virulence, drug resistance and modulation of host macrophage function" funded by **Department of Science and Technology** (2008-2011). **PI**
10. Principal Investigator in project funded by **ICMR** entitled "Analysis of host immuno-determinants involved in the pathogenesis of Indian Cutaneous Leishmaniasis exploiting cDNA microarray" (2007-2010). **PI**
11. Principal Investigator in project funded by **Ministry of Defence** entitled "Evaluation of Host immunodeterminants involved in the pathogenesis of kala azar and Post Kala azar Dermal Leishmaniasis using cDNA array" (2006-2009). **PI**
12. **Indo-German** project entitled "Molecular Characterization of *Leishmania* Parasites Isolated from Dermal Lesions of PKDL patients in India" funded by Department of Science and Technology. (2005-2008). **PI**
13. Principal Investigator in project funded by **Indo-US Vaccine Action Program** on "Discovery of virulence-related genes in *Leishmania donovani* using a genomic microarray" (2004 to 2007). **PI**
14. Principal Investigator in project funded by **Department of Science and Technology** on "Molecular cloning of differentially expressed genes in *Leishmania donovani* isolated from patients of post kala-azar dermal leishmaniasis" (2003-2006). **PI**
15. Principal Investigator in project on "Evaluation of cellular immune responses in kala-azar and PKDL" funded by **DRDO**, Ministry of Defence (2002-2005). **PI**
16. Principal Investigator in **ICMR** Task-force approved project on Application of DNA microarray technology for identification of differentially expressed genes in parasite isolates from Kala-azar and PKDL patients (2002-2005). **PI**
17. Principal Investigator in project funded by **Indo-US Vaccine Action Program** on "Identification and characterization of genes with stage specific expression in *Leishmania donovani* isolated from kala-azar patients" (1999 to 2003). **PI**
18. Co-investigator in project funded by **Department of Biotechnology** on "Cloning and expression of a mutagenized variant of protective antigen" (1995 to 1998). **Co-I**

19. Co-investigator in project entitled “Production of a recombinant vaccine against anthrax” funded by **Ministry of Defence** (1995 to 1998). **Co-I**
20. Co-investigator in **DAE** (Department of Atomic Energy) project entitled “Development of an immunotoxin against filariasis” (1994 to 1996). **Co-I**
21. Principal investigator in **DST** (Department of Science & Technology) project entitled “Role of stress proteins in *Leishmania*” (1991 to 1993). **PI**

List of Publications

In Journals included on Medlar

1. Avishek K, Kaushal H, Gannavaram S, Dey R, Selvapandiyani A, Ramesh V, Negi NS, Dubey US, Nakhasi HL, **Salotra P**. Gene deleted live attenuated *Leishmania* vaccine candidates against visceral leishmaniasis elicit pro-inflammatory cytokines response in human PBMCs. **Sci. Rep.** 6, 33059; doi: 10.1038/srep33059 (2016).
2. Gannavaram S, Bhattacharya P, Dey R, Ismail N, Avishek K, **Salotra P**, Selvapandiyani A, Satoskar A, Nakhasi HL. Methods to Evaluate the Preclinical Safety and Immunogenicity of Genetically Modified Live-Attenuated *Leishmania* Parasite Vaccines. **Methods Mol Biol.** 1403:623-638 (2016).
3. Kaushal H, Bras-Gonçalves R, Avishek K, Deep DK, Petitdidier E, Lemesre JL, Papierok G, Kumar S, Ramesh V, **Salotra P**. Evaluation of cellular immunological responses in mono- and polymorphic clinical forms of Post Kala-Azar Dermal Leishmaniasis in India. **Clin Exp Immunol.** 185(1):50-60 (2016).
4. Sharma V, Sharma P, Selvapandiyani A, **Salotra P**. Ubiquitin related modifier-1 (LdUrm1): an early endosome associated ubiquitin like conjugation in *Leishmania donovani*. **Mol Microbiol.** 99(3):597-610 (2016).
5. Ramesh V, R. Singh, Kumar A, Verma A, Deep DK, Verma S and **Salotra P**. Decline in clinical efficacy of oral miltefosine in treatment of post kala-azar dermal leishmaniasis (PKDL) in India. **PLoS Negl Trop Dis** 22; 9(10):e0004093 (2015).
6. Ramesh V, Kaushal H, Mishra AK, Singh R and **Salotra P**. Clinico-epidemiological analysis of Post kala-azar dermal leishmaniasis (PKDL) cases in India over last two decades: a hospital based retrospective study. **BMC Public Health** 15:1092 (2015).
7. Ramesh V, Avishek K, **Salotra P**. Post-kala-azar dermal leishmaniasis in HIV-coinfected individuals: problems in diagnosis and treatment. **Int J Dermatol.** 54:116-120 (2015).
8. Kaushal H, Bras-Gonçalves R, Negi NS, Lemesre JL, Papierok G, **Salotra P**. Role of CD8+ T cells in protection against *Leishmania donovani* infection in healed Visceral Leishmaniasis individuals. **BMC Infect Dis.** 14:653 (2014).
9. Agrawal S, Khandelwal K, Bumb RA, Oghumu S, **Salotra P**, Satoskar AR. Pediatric cutaneous leishmaniasis in an endemic region in India. **Am J Trop Med Hyg.** 91(5):901-904 (2014).

10. Gannavaram S, Dey R, Avishek K, Selvapandiyan A, **Salotra P**, Nakhasi HL. Biomarkers of safety and immune protection for genetically modified live attenuated *Leishmania* vaccines against visceral leishmaniasis - Discovery and Implications. **Front Immunol.** 23;5:241 (2014).
11. Selvapandiyan A, Dey R, Gannavaram S, Solanki S, **Salotra P**, Nakhasi HL. Generation of growth arrested *Leishmania* amastigotes: A tool to develop live attenuated vaccine candidates against visceral leishmaniasis. **Vaccine.** 32(31):3895-3901 (2014).
12. Bhandari V, Sundar S, Dujardin JC, **Salotra P**. Elucidation of cellular mechanisms involved in experimental paromomycin resistance in *Leishmania donovani*. **Antimicrob Agents Chemother.** 58(5):2580- 2585 (2014).
13. Kulshrestha A, Sharma V, Singh R, **Salotra P**. Comparative transcript expression analysis of miltefosine-sensitive and miltefosine-resistant *Leishmania donovani*. **Parasitol Res.** 113(3):1171-1184 (2014).
14. Chamakh-Ayari R, Bras-Gonçalves R, Bahi-Jaber N, Petitdidier E, Markikou-Ouni W, Aoun K, Moreno J, Carrillo E, **Salotra P**, Kaushal H, Negi NS, Arevalo J, Falconi-Agapito F, Privat A, Cruz M, Pagniez J, Papierok GM, Rhouma FB, Torres P, Lemesre JL, Chenik M, Meddeb-Garnaoui A. *In vitro* evaluation of a soluble *Leishmania* promastigote surface antigen as a potential vaccine candidate against human leishmaniasis. **PLoS One.** 9(5):e92708 (2014).
15. Krayter L, Bumb RA, Azmi K, Wuttke J, Malik MD, Schnur LF, **Salotra P**, Schönian G. Multilocus microsatellite typing reveals a genetic relationship but, also, genetic differences between Indian strains of *Leishmania tropica* causing cutaneous leishmaniasis and those causing visceral leishmaniasis. **Parasit Vectors.** 7(1):123 (2014).
16. Ramesh V, Avishek K, Sharma V and **Salotra P**. Combination therapy with amphotericin-B and miltefosine for post-kala-azar dermal leishmaniasis: A preliminary report. **Acta Derm Venereol.** 94(2):242-243 (2014).
17. Katara GK, Raj A, Kumar R, Avishek K, Kaushal H, Ansari NA, Bumb RA and **Salotra P**. Analysis of localized immune responses reveals presence of Th17 and Treg cells in cutaneous leishmaniasis due to *Leishmania tropica*. **BMC Immunol.** 14(1):52 (2013).
18. Bhandari V, Kumar D, Verma S, Srividya G, Negi NS, Singh R and **Salotra P**. Increased parasite surface antigen-2 expression in clinical isolates of *Leishmania donovani* augments antimony resistance. **Biochem Biophys Res Commun.** 440(4):646-651(2013).
19. Prajapati VK, Sharma S, Rai M, Ostyn B, **Salotra P**, Vanaerschot M, Dujardin JC and Sundar S. In vitro susceptibility of *Leishmania donovani* to miltefosine in Indian visceral leishmaniasis. **Am J Trop Med Hyg.** (4):750-754 (2013).
20. Aara N, Khandelwal K, Bumb RA, Mehta RD, Ghiya BC, Jakhar R, Dodd C, **Salotra P** and Satoskar AR. Clinico-epidemiologic study of cutaneous leishmaniasis in Bikaner, Rajasthan, India. **Am J Trop Med Hyg.** 89(1):111-115 (2013).
21. Bumb RA, Prasad N, Khandelwal K, Aara N, Mehta RD, Ghiya BC and **Salotra P**, Wei L, Peters S and Satoskar AR. Long-term efficacy of a single-dose Radio Frequency Heat therapy versus intralesional antimonials for cutaneous leishmaniasis in India. **Br J Dermatol.** 168(5):1114-1119 (2013).

22. Cruz I, Millet A, Carrillo E, Chenik M, **Salotra P**, Verma S, Veland N, Jara M, Adai V, Castrillón C, Arévalo J, Moreno J and Cañavate C. An approach for interlaboratory comparison of conventional and real-time PCR assays for diagnosis of human leishmaniasis. **Expt Parasitol**. 134(3): 281-289 (2013).
23. Verma S, Avishek K, Sharma V, Negi NS, Ramesh V and **Salotra P**. Application of loop-mediated isothermal amplification assay for the sensitive and rapid diagnosis of visceral leishmaniasis and post-kala-azar dermal leishmaniasis. **Diagn Microbiol Infect Dis**. 74(4):390-395 (2013).
24. Kulshrestha A, Bhandari V, Mukhopadhyay R, Ramesh V, Sundar S, Maes L, Dujardin JC, Roy S and **Salotra P**. Validation of a simple resazurin-based promastigote assay for the routine monitoring of miltefosine susceptibility in clinical isolates of *Leishmania donovani*. **Parasitol Res**. 112(2):825-828 (2013).
25. Verma S, Bhandari V, Avishek K, Ramesh V and **Salotra P**. Reliable diagnosis of PKDL using slit aspirate specimen to avoid invasive sampling procedures. **Trop Med Int Health**. 18(3):268-275 (2013).
26. Dey R, Dagur PK, Selvapandiyan A, McCoy JP, **Salotra P**, Duncan R and Nakhasi HL. Live Attenuated *Leishmania donovani* p27 Gene Knockout parasites are nonpathogenic and elicit long-term protective immunity in Balb/c mice. **J Immunol**. 190(5):2138-2149 (2013).
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