

Name: Dr. Heena Sachdeva

Designation: Assistant Professor

Specialization: Parasitology and Immunology

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Education

M.Sc. Zoology (2007, Punjabi University, Patiala)

M.Phil. Zoology (2008, Panjab University, Patiala)

Ph.D. (5th March, 2014, Panjab University, Patiala)

Title of Ph.D. Thesis: Evaluation of immunomodulatory activity and protective efficacy of herbal drugs *Withania somnifera*, *Tinospora cordifolia* and *Asparagus racemosus* in combination with cisplatin against murine visceral leishmaniasis.

Professional Experience:

Department of Zoology, M.M Modi College, Patiala, India (15 January, 2018 to till date)

Department of Zoology, Government College for Girls, Patiala, India (07 September, 2017 to 12 January, 2018)

Department of Zoology, Sri Guru Granth Sahib World University, Sri Fatehgarh Sahib, India (01 February, 2017 to 31 May, 2017).

Department of Zoology, Mata Gujri College, Sri Fatehgarh Sahib, India (05 July, 2016 to 09 January, 2017).

Department of Zoology, Mata Gujri College, Sri Fatehgarh Sahib, India (01 July, 2015 to 06 May, 2016).

Department of Zoology, Mata Gujri College, Sri Fatehgarh Sahib, India (24 July, 2014 to 19 May, 2015).

Teaching Interests:

- Parasitology
- Parasite Immunology
- Medical Zoology and Medical Laboratory Technology

Publications

1. Sukhir Kaur, Heena Sachdeva, Shivani Dhuria, Meenakshi Sharma and Tejinder Kaur "Antileishmanial effect of cisplatin against murine visceral leishmaniasis". *Parasitology International*. (2010) **59(1)**:62-69.
https://s3.amazonaws.com/academia.edu.documents/48603931/j.parint.2009.10.00620160905-17703-v1wtot.pdf?response-content-disposition=inline%3B%20filename%3DAntileishmanial+effect+of+cisplatin+agai.pdf&X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWOWYYGZ2Y53UL3A%2F20200304%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20200304T090955Z&X-Amz-Expires=3600&X-Amz-SignedHeaders=host&X-Amz-Signature=e1129c5bebf39b430777e47d2ea79b7edd9b996ff7e85d0f152ba25b41c9d16
2. Heena Sachdeva, Rakesh Sehgal and Sukhbir Kaur "Studies on the protective and immunomodulatory efficacy of *Withania somnifera* along with cisplatin against experimental visceral leishmaniasis". *Parasitology Research*. (2013) **112(6)**:2269-2280. <https://link.springer.com/article/10.1007/s00436-013-3387-2>
3. Sukhbir Kaur, Gurpreet Kaur, Heena Sachdeva and Tejinder Kaur "In vivo evaluation of the antileishmanial activity of two immunomodulatory plants, *Embolia officinalis* and *Azadirachta indica* in BALB/c mice". *International Journal of Ayurvedic and Herbal medicines*. (2013) **3:1**, 1066-1079.
<https://innovareacademics.in/journals/index.php/ijpps/article/view/11726>
4. Heena Sachdeva, Rakesh Sehgal and Sukhbir Kaur "*Asparagus racemosus* ameliorates cisplatin induced toxicities and augments its antileishmanial activity by immunomodulation *in vivo*". *Parasitology International*. (2014) **63(1)**:21-30.
<https://www.sciencedirect.com/science/article/pii/S138357691300158X>
5. Heena Sachdeva, Rakesh Sehgal and Sukhbir Kaur "*Tinospora cordifolia* as a protective and immunomodulatory agent in combination with cisplatin against murine visceral leishmaniasis". *Experimental Parasitology*. (2014) **137**:53-65.
<https://www.sciencedirect.com/science/article/abs/pii/S0014489413003093>
6. Sukhbir Kaur, Kalpana and Heena Sachdeva "Protection against experimental visceral leishmaniasis by immunostimulation with herbal drugs *Withania somnifera* and *Asparagus racemosus*". *Journal of medical Microbiology*. (2014) **63**: 1328-1338.
https://www.microbiologyresearch.org/docserver/fulltext/jmm/63/10/1328_jmm072694.pdf?expires=1583314139&id=id&accname=quest&checksum=026313730EE38D7039B041D1F44CE1E5

7. Sukhbir Kaur, Kanika Bhardwaj and Heena Sachdeva "Antileishmanial efficacy of *Boerhaavia diffusa* and *Ocimum sanctum* against experimental visceral leishmaniasis". *Indian Journal of Experimental Biology*. (2015) **53**:522-529.
<http://nopr.niscair.res.in/handle/123456789/31911>
8. Heena Sachdeva "Evaluation of changes in splenic lymphoid tissues during visceral leishmaniasis infection in BALB/c mice and after cisplatin in combination with herbal drug treatment". *International Journal of Advanced Research in Science, Engineering and Technology*. (2015) **2(7)**: 810-813.
<http://www.ijarset.com/volume-2-issue-7-july-15.html>
9. Heena Sachdeva "An insight into the treatment of Leishmaniasis. *International Journal of Advanced Research in Biological Sciences*. (2015) **2(9)**:1-8.
<https://ijarbs.com/pdfcopy/sept2015/ijarbs1.pdf>
10. Heena Sachdeva, and Manish Sharma "Diagnosis of Visceral Leishmaniasis. *International journal of advanced research in science, engineering and technology*. (2016) **3(12)**: 3096-3097.
<http://www.ijarset.com/upload/2016/december/19.html>
11. Heena Sachdeva, and Manish Sharma "Reservoir and transmission of Visceral Leishmaniasis", *International Journal of Scientific Research in Science and Technology*. (2017), **3(1)**: 59-60. <http://ijsrst.com/paper/767.pdf>
12. Heena Sachdeva, and Manish Sharma "Organ specific immunity in visceral Leishmaniasis". *International Journal for Science and Advance Research in Technology*. (2017) **3(1)**: 79-80. <http://ijsart.com/Home/IssueDetail/8217>
13. Heena Sachdeva, and Manish Sharma "Role of cytokines in Leishmaniasis". *International Journal for Science and Advance Research in Technology*. (2017) **3(1)**: 81-82. <http://ijsart.com/Home/IssueDetail/8218>
14. Heena Sachdeva and Sukhbir Kaur " Cisplatin along with herbal drug treatment reduces the percentage of regulatory T cells and decreased the severity of experimental visceral leishmaniasis". *Journal of Microbiology Immunology and Infection*. (2018) **51(4)**:435-445.
<https://www.ncbi.nlm.nih.gov/pubmed/28655574>

Review Articles

1. **Heena Sachdeva** and Manish Sharma, "Clinical manifestations of leishmaniasis: a review", *International journal of advanced research in science, engineering and technology*. (2016) **3(12)**: 3096-3097.
http://www.ijarset.com/upload/2016/december/19_IJARSET_heena.pdf
2. **Heena Sachdeva** "Animal models of Leishmaniasis: A review". *International journal of recent scientific research*. (2016) **7(1)**:8276-8278
<https://www.recentscientific.com/animal-models-leishmaniasis-review>
3. **Heena Sachdeva** "An insight into Zika Virus: A review, *International journal of recent scientific research*. (2016) **7(3)**: 9635-9636.
<http://www.recentscientific.com/insight-zika-virus-review-article?page=4>
4. Heena Sachdeva "Life cycle of *Leishmania donovani*; causative agent of visceral leishmaniasis: A review, *International Journal of Scientific research in*

Science, Engineering and Technology. (2016) **2(1)**:84-85.
<http://ijsrset.com/IJSRSET162121>

5. **Heena Sachdeva**, and Manish Sharma. "Leishmania-Host Interaction and Survival Strategies "A Review". *International Journal for Science and Advance Research in Technology*. (2017) **3(1)**: 41-43.
<http://ijsart.com/Home/IssueDetail/8200>

Book/Book chapter: No Any

Conference / Seminars

A) Resource Person / Invited Lectures: No Any

B) Paper presented:

1. Heena Sachdeva and Sukhbir kaur (2010) "Comparison of antileishmanial activity of two doses of cisplatin in *L. donovani* infected BALB/C mice." in National Conference on Advances in Biological Sciences at Department of Zoology, Panjab University, Chandigarh, India March 29-30 (2010)
2. Heena Sachdeva, Rakesh Sehgal and Suhbir Kaur (2011) "Attenuation of cisplatin induced toxicity by *Tinospora cordifolia* against murine visceral leishmaniasis " in 23rd National Congress of Parasitology Anna University, Chennai, India November 18-20
3. Heena Sachdeva, Rakesh Sehgal and Suhbir Kaur (2012) "Immunomodulatory activity of *Tinospora cordifolia* in cisplatin treated *Leishmania donovani* infected BALB/c mice" in International conference on Entomology at Punjabi University, Patiala, India February 17-19
4. Heena Sachdeva and Sukhbir Kaur (2013) "Flow cytometric analysis of effect of cisplatin in combination with herbal drugs against experimental visceral leishmaniasis" in XII International conference on Vector and Vector Borne Diseases at Udaipur, Rajasthan organized by Mohanlal Sukhadia University, Udaipur, Rajasthan and National Academy of Vector and Vector Borne Diseases, Bhubaneswar , India September 16-18
5. Heena Sachdeva and Sukhbir Kaur (2018) "In vitro antileishmanial evaluation of cisplatin using MTT assay" in National Conference on Recent Advances in Chemical, Biological and Environmental Sciences at MM Modi College, Patiala, India February 09- 10
6. Heena Sachdeva (2019) "Effect of cisplatin in combination with herbal drugs against murine visceral leishmaniasis" in National Conference on Recent Advances in Chemical, and Environmental Sciences at MM Modi College, Patiala, India April 11- 12

C) Attended

1. Attended the National symposium on Biodiversity, Cell and Molecular Biology at Department of Zoology, Panjab University, Chandigarh 26-27 February 2008.

Workshops and training courses

1. Attended Faculty Development Program at Multani Mal Modi College, Patiala. (20-26 July, 2018).
2. Attended Faculty Development Program at Multani Mal Modi College, Patiala. (17-22 July, 2019).
3. INDO-US Seminar-Cum-Demonstrative Workshop on Animal cell culture, DNA fingerprinting and cell marker identification at Panjab University, Chandigarh (13-15 December, 2007).
4. Attended and Volunteered in the National seminar-cum-workshop on Exploring New Vistas in Biodiversity Research for Sustainable Development at Department of Zoology, Panjab University, Chandigarh. (22-24 January, 2011).

Achievements, Awards and Recognitions

- Successfully organized (Part of organizing committee) a seven days Workshop on **Modern Techniques in Biological Sciences** at MM Modi College, during July 3-August 6, 2018.
- **Awarded best poster** for abstract entitled “In vivo leishmanicidal..murine visceral leishmaniasis” at 21st National Congress of Parasitology, Department of Zoology, Panjab University, Chandigarh. (14-16 November, 2009).

Resources Developed (No Any)

Membership

- Life Member, Indian Academy of Vector Borne Diseases
- Member Board of Under Graduate Studies Department of Zoology and Environmental Sciences, Punjabi University, Patiala (22.11.2019).
<https://drive.google.com/file/d/1xlgP6PehmboHgyN1BI9eWUJ75QHJ1-dD/view>