

## CURRICULUM VITAE

**Name** Dr. Heena Prajapati

**Date of Birth** 22<sup>nd</sup> April 1986

**Age** 37 Yrs.  
**Sex** Female  
**Religion** Hindu  
**Nationality** Indian

**Education** B.Sc, M.Sc., Ph. D., B.Ed

**Name of Organization** Government science college, Gandhinagar

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**Academic Qualifications** B. Sc. (60.19%) - 2006  
Zoology (M.G. Science Institute, Gujarat University, Gujarat, India)

M. Sc.(59.22%) - 2008  
Zoology (School of Sciences, Gujarat University, Gujarat, India)

Ph.D. – 2014  
Zoology Department, School of Sciences, Gujarat University, Gujarat, India.

B.Ed- 2016  
Umiya College, Kalol, Gujarat University

**Experience :** Assistant professor(contract based) at Gujarat Arts and Science college (2014-15)  
Assistant teacher(Biology) at H. B. kapadia higher secondary school (2016-2018)

**GPSC Selection(2018) :** Assistant professor of Zoology(GPSC selection - Class II) at Bahauddin Government Science college, Junagadh(2018-2022)

**Current posting:** Assistant professor of Zoology(2022 to till now) at Government science college, Gandhinagar

- Participated in the 2nd Online Guru-Dakshya, Faculty Induction Programmes (FIP) of 30 days (Equivalent to Orientation Programme) which organised by UGC – HRDC, Gujarat university, from 27/07/2020 to 25/08/2020 and obtained Grade A+
- Participated UGC sponsored Refresher course in tribal studies which is organised by UGC-HRDC, Ranchi University, from 18/02/2021 to 03/03/2021 and obtained Grade A.

## **TITLE OF Ph.D. THESIS**

“Toxicological consequences of diethyl phthalate on vital organs of rodent and its amelioration”

## **PRESENT RESEARCH WORK:**

Diethyl phthalate is used ubiquitously as solvents and plasticizer worldwide. Diethyl phthalate has been found to have diverse acute and chronic toxic effects on several species at different trophic levels. We had studied the toxicity of diethyl phthalate on mice liver and kidney. Results revealed that diethyl phthalate creates oxidative stress and disturbs energy metabolism. It also affects carbohydrates, nucleic acid and lipid metabolism. Secondly, we used *Nigella sativa* seed extract well known medicinal plant to ameliorate the toxicity created by diethyl phthalate. We had found that *Nigella sativa* seed extract alleviate the alterations made by diethyl phthalate in mice liver and kidney.

## **ABSTRACT PRESENTED IN CONFERENCES**

1. Prajapati, H. and Verma, R.J. (2012). *Nigella sativa* reverses oxidative stress induced by diethyl phthalate. *New perspectives of natural sciences – II*. 7<sup>th</sup> July, Vallabh Vidyanagar, Gujarat.
2. Prajapati, H. and Verma, R.J. (2013). *Nigella sativa* ameliorates diethyl phthalate – induced lipid infiltration in liver of mice. *Emerging trends and challenges in therapeutic science and medicine*. 27 and 28 September, Gandhinagar, Gujarat.
3. Prajapati, H. and Verma, R.J. (2013). *Nigella sativa* ameliorates diethyl phthalate – induced toxicity. *XXXIII Annual conference of Society of Toxicology (STOX)*. October 23-25, Mathura, U.P.

4. Prajapati, H. and Verma, R. J. (2013). “*Nigella sativa* ameliorates oxidative stress induced by diethyl phthalate in kidney of mice”. *Natiional seminar on biochemistry: ‘A science beyond Compartmentalization’*, December, 2013, Ahmedabad, Gujarat.
5. Prajapati, H. and Verma, R. J. (2014). “Mitigatory effect of *Nigella sativa* on oxidative stress induced by diehyl phthalate” *Science Excellence*, January 4, 2014, Ahmedabad, Gujarat. **(1<sup>st</sup> prize – poster presentation)**
6. Prajapati, H. and Verma, R.J. (2014) “Antioxidative Property Of *Nigella Sativa* Seed Extract.” *2<sup>nd</sup> Nirma institute of pharmacy international conference*, January 23-25, 2014, Ahmedabad, Gujarat.
7. Prajapati, H. and Verma, R. J. (2014). “Diethyl phthalate alters DNA, RNA and protein contents in liver of mice and its reversal by *Nigella sativa* seed extract”. *Science Manthan*, February 2, 2014, Changa, Gujarat.
8. Prajapati, H. and Verma, R. J. (2014). “Diethyl phthalate induced hepatotoxicity in mice. *7<sup>th</sup> National Science Symposium*, February 23, 2014, Rajkot, Gujarat.
9. Prajapati,H. And Verma, R.J.(2015). "Mitigation of diethylphthalate - induced hepatotoxicity *Nigella sativa* seed extract in mice. XXIX Gujarat Science Congress, 28 and 1 March, Ahmedabad.
10. Prajapati,H. And Verma, R.J.(2019). “Protective effect of nigella sativa against diethyl phthalate- induced changes in mitochondrial activities in liver of mice”. National conference on inclination of modern sciece towards environmental protection and sustainable development, 23<sup>rd</sup> January,2019.

## **RESEARCH PAPERS PUBLISHED**

1. Prajapati, H. and Verma, R.J. (2013). Mitigation of diethylphthalate – induced hepatotoxicity by *Nigella sativa* seed extract in mice. *Int. J. Pharma. Bio. Sci.*,**4**(4), 1366-1378
2. Panchal. S., Prajapati, H. and Verma, R.J. (2013). Diethanolamine cytotoxicity on red blood corpuscles. *Int. Res. J. Bio. Sci.*
3. Prajapati, H. and Verma, R.J. (2013). *Nigella sativa* ameliorates diethyl phthalate – induced lipid infiltration in liver of mice. *Int. J. Pharma. Bio. Sci.*, **3**(3), 443-449.
  
4. Prajapati, H. and Verma, R.J. (2014). *Nigella sativa* ameliorates oxidative stress induced by diethyl phthalate – an *in vitro* study. *Int. J. Phrma. Sci. Res.*
5. Prajapati, H. and Verma, R.J. (2014). Diethyl phthalate causes oxidative stress: An invitro study. Iranian journal of toxicology
6. Prajapati,H. and Verma R.J. (2015). *Nigella sativa* ameliorates diethyl phthalate - induced hepatotoxicolgy. *Int. J. Pharma. Res. Schol.* 4(1), 112-119.
7. Prajapati,H. and Verma R.J. (2022). Protective effect of *Nigella sativa* against diethyl phthalate- induced changes in mitochondrial enzymatic activities in liver of mice. *J. Sci. Healthcare Exploration (JSHE)*. 4(6), 6-10