

CURRICULUM VITAE

Dr. Sadhana Ramchandra Joshi

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Mother and Child Health,
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Expertise:

Developmental Origins of Health and Disease,
Maternal Nutrition with specific reference to
Long Chain Polyunsaturated Fatty Acids,
Micronutrients

Date of Birth: 24th Oct 1962

Qualifications:

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| • PhD (Biometry and Nutrition) | 1993 |
| • MSc (Biochemistry) | 1985 |

Employment history:

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| • 2011- Present | Scientist G, (Professor and Head) | IRSHA, BVDU, Pune, India |
| • 2008-2011 | Scientist F | IRSHA, BVDU, Pune, India |
| • 2004-2007 | Senior Scientist | IRSHA, BVDU, Pune, India |

Summary of Experience:

- Experience of 30 years in the field of Maternal and Child Nutrition mainly focussing on Pregnancy Outcomes and risk for diseases in children

- Success in receiving large number of funds from Government of India to the tune of over Rs 18,32,86,196 (18.33 Cr)
- Student Fellowships from Govt of India: Around 2.6 crores
- Principal Investigator on the **Centre of Advanced Research , Indian Council of Medical Research**
- Total number of Publications: 156, Avg Impact Factor : 3.562
- Total number of Book chapters: 9
- Total awards received by my group: 47
- Total number of Students completed Ph.D.: 21.
- Extensive Experience in developing Collaborative Grants

Fellowships Received:

- Indian Council of Medical Research (Research Associate) Post PhD
- Indian Council of Medical Research (Junior Research Fellow) during PhD
- Bhagirathibai Dravid Scholarship during BSc
- Patwardhan Scholarship during BSc
- BW Gadgil Scholarship during BSc

Recognitions Received:

- External-Member of the Research and Development cell/Research Advisory Council/University Research Co-ordinator committee of the KAHER.(Belgaum, Karnataka) (2022)
- Expert Committee on Wellness Counseling formed by the State Project Director, Rashtriya Uchchatar Shiksha Abhiyan (RUSA), Maharashtra (2017)
- Board Member for the Preterm Birth International Collaborative PREBIC Australasian Branch (China; 2017, Korea; 2018)
- Board Member for the DSM Pediatric/Maternal Nutrition Advisory, February 16-18, 2016, Columbia, MD
- Invitation to participate in the 2016 Grand Challenges Meeting sponsored by Bill & Melinda Gates Foundation at QEII Conference Centre, London, England (23rd – 28th October, 2016).
- Chief Guest for National Workshop on “Research EcoSystem (ICT) and Statistics Workshop”
- Editorial board member of “Journal of Nutrition & Intermediary Metabolism”, ELSEVIER
- Associate Editor of BMC Pregnancy and Child Birth
- DBT task force member on the task force “Human Development Disease Biology”
- Reviewer on ePromis online proposals and invited to evaluate several project proposals submitted at Department of Biotechnology(DBT), Government of India, New Delhi.
- Reviewer for SERB, DST
- Reviewer for ICMR
- Reviewer for Project Grants from countries like France and Netherlands
- Reviewer for many International Scientific Journals with high impact factor

- Invited to deliver Keynote address at various conferences
- Ethical Committee Member (Bharati Vidyapeeth Medical College)

Funds Received for the Following Projects:

1. Department of Biotechnology, Government of India

Title of the Project: Establishment of Facility (Lipidome and DNA Methylation) Particularly for Understanding the Risk of Cardiovascular Disease in A Cohort of Women with Adverse Pregnancy Outcome (DBT File No: BT/INF/22/SP54134/2025)

Start date: 28th April 2025 - End date: 27th April 2030; Duration- 5 years

Amount: Rs.14,76,37,768/-

2. Indian Council of Medical Research, Government of India

Title of the Project: Pooled Data Analysis - PRAYAS: Protocol for Pooled Research and Analysis for Yielding Anemia-free Solutions in India

Start date: May 25 End date: Oct 2025, Duration-05 months

Amount: Rs. 1,94,200 /-

3. Indian Council of Medical Research, Government of India

Title of the Project: India Child Growth Standards Research Initiative: A Prospective Cohort Study to Develop Growth Standards in 0 to 24 months Indian Children. Project UTR No. RBI0042540594715

Start date: Jan 25 End date: July 2028, Duration-42 months (3.6 years)

Amount: Rs. 3, 73, 36194.6 /-

4. Indian Council of Medical Research, Government of India

Title of the Project: Building evidence and designing solutions to prevent stillbirths in India- A collaborative approach to retrospectively analyze pregnancy cohorts in India

Start date: 20-02-2024 End date: March 2025, Amount: Rs. 8,05,917/-

Project ID: NHRP-2023-0000006

5. Department of Biotechnology, Government of India

Title of the Project: Understanding the association and underlying molecular mechanisms of early life 'Double-burden' of malnutrition and non-communicable disease risk in adolescence, Nov 2023 – Oct 2026, Rs 1.67 cr

6. Department of Biotechnology, Government of India

Title of the Project: Exploring the role of maternal fatty acids, placental fatty acid metabolism, and inflammation in determining infant health in gestational diabetes mellitus, Feb 2022- Feb 2025, Rs 95.5 Lakhs

7. Medical Research Council , United Kingdom

Title of the Project: OPTIMISE: Optimal preconception nutrition to offset inflammation and non-communicable disease risk in pregnant women and their children, Nov 2022, Sanctioned, Rs 2 cr

8. Department of Biotechnology, Government of India

Title of the Project: Influence of Maternal One-carbon (1C) Metabolism in Placental Function, Fetal Growth and Programming, Mar 2018 – Feb 2021
Rs 753200

9. Department of Biotechnology, Government of India

Title of the Project: Early Interventions to Support Trajectories for Healthy Life in India (EINSTEIN). Healthy Life Trajectories Initiative (HeLTI), Dec 2017- Dec 2022, Rs 13,50,000

10. Indian Council of Medical Research, Centre for Advanced Research, Government of India

Title of the Project: Investigating Mechanisms Leading to Preeclampsia, March 2017 – Sept 2022, Rs 7, 57, 95,247

11. Department of Biotechnology, Government of India

Title of the Project: Epigenetic regulation of angiogenic factors in assisted reproductive technology (ART) and non-ART derived placentae, July 2019-July 2022, Rs. 59,91, 300

12. Department of Biotechnology, Government of India

Title of the Project: Epigenetic regulation of placental peroxisome proliferator activated receptor (PPAR) in women delivering low birth weight babies, April 2019 - April 2022, Rs. 35, 50,683/-

13. Department of Science and Technology, Government of India

Title of the Project: Pro-neurotrophins /p75NTR signalling contributes to increased apoptosis in preterm placentae, May 2017-June 2020, Rs. 40.48 lakhs

14. Department of Biotechnology, Government of India

Title of the Project: Disturbed maternal one carbon cycle in preeclampsia increases risk for cardio-metabolic variables in children, May 2015-June 2018, Rs 49, 82,000/-

15. Indian Council of Medical Research, Government of India

Title of the Project: Regional differences in neurotrophin regulation of vascularization in preeclamptic placentae, Mar 2015- Feb, Rs. 30, 24,496/-

16. Indian Council of Medical Research, Government of India

Title of the Project: Exploring the efficacy of omega 3 fatty acid supplementation to a maternal high fat diet deficient in vitamin b12 in ameliorating the risk for

impaired brain development and metabolic syndrome in the offspring, June 2013; May 2016, Rs 20, 78,952 /-

17. Indian Council of Medical Research, Government of India

Title of the Project: Regulation of fatty acid desaturases and transport protein in pregnancy, April 2013- March 2014, Rs 16, 90,790 /-

18. Department Biotechnology, Government of India

Title of the Project: Maternal micronutrient status, inflammatory markers and Risk for non-communicable diseases in the offspring in a preeclamptic rat model, Feb 2013-Jan 2016, Rs 37, 62,600/-

19. Wellcome trust UK

Title of the Project: Understanding the Risk of Metabolic and Neurodevelopmental Disorders in Infants Born to Mothers with Pregnancy Complications, Aug 2012-Oct 2013, Rs 30, 55,266/-

20. Department of Science and Technology, Government of India

Title of the Project: Multigenerational effects of vitamin B12 deficiency /supplementation on brain development and metabolic syndrome variables in a rat model, April 2012-March 2015, Rs 40, 05,000/-

21. Department of Science and Technology, Government of India

Title of the Project: Epigenetic regulation of matrix metalloproteinases in preterm placenta, Feb 2012-Jan 2015, Rs 52, 74,400 /-

22. Indian Council of Medical Research, Government of India

Title of the Project: Gene Specific Methylation Patterns of Angiogenic Factors in Preeclampsia, July 2011-Dec 2012, Rs 23, 37,688/-

23. Wellcome Trust, UK

Title of the Project: Effect of micronutrient rich dietary supplementation on the fatty acid profile, antioxidant enzymes and markers of oxidative stress in women living in urban slums August 2010- Dec, 2017, Rs. 14,62,500/-

24. Funded by Indian Council of Medical Research, Government of India

Title of the Project: Role of long chain polyunsaturated fatty acids, neurotrophins and vascular endothelial growth factor in mothers with pre-eclampsia and their association with infant growth, Dec 2010- Nov 2012, Rs 19, 72,674/-

25. Department Biotechnology, Government of India

Title of the Project: Comparison of plasma & placental proteomic patterns in pregnancy complications, May 2010- April 2013, Rs 45,21,400/-

26. Department Biotechnology, Government of India

Title of the Project: Role of maternal micronutrients on brain neurotrophic factors and cognitive development in Wistar rat offspring, March 2010-Feb 2013,

Rs 34, 26,000/-

27. National Medicinal Plants Board (NMPB), Department of AYUSH, Government of India

Title of the Project: Medhya activity of jatamansi (*nardostachys jatamansi*) with respect to its Adulterants and substitutes as evaluated by ADHD (attention deficit hyperactivity disorder) model, Jan 2010-Dec 2012, Rs 20 lakhs

28. Department Biotechnology, Government of India

Title of the Project: Investigations on long term effects of maternal folic acid supplementation for reducing risks associated with non-communicable diseases in adult offspring using rat model, Jan 2006; End Date: Dec 2008, Rs 19, 54,000/-

Funded Student Projects by various National Agencies:

1. Women Scientist Award for the project “Exploring the effect of prenatal omega-3 fatty acid supplementation on cognitive performance in the offspring born to dams with gestational diabetes mellitus” to Ms. Nisha Kemse funded by **Indian Council of Medical Research, Department of Health Research** (July 2021 – June 2024)
2. Junior Research Fellowship for the project “Maternal Vitamin D and its Association with Angiogenesis in Preeclampsia” to Ms. Juhi Nema Funded by **Council of Scientific and Industrial Research** (Apr 2017-Aug 2022)
3. Junior Research Fellowship for the project “Influence of maternal one carbon metabolites on placental epigenetic patterns” to Ms. Kinjal Dave Funded by **Council of Scientific and Industrial Research** (July 2017-Aug 2022)
4. Research Associate fellowship for the project “Placental Lipid Transport and Fetal Growth in Preeclampsia” to Amrita Khaire. Funded by **Indian Council for Medical Research** (Sept 2018- Sept 2021)
5. Senior Research Fellowship for the project “Investigating the role of enzymes regulating the one carbon metabolism in Preeclampsia” to Anjali Jadhav **Indian Council for Medical Research** (June 2018-May 2021)
6. Junior Research/Senior Fellowship for the project “One carbon cycle metabolites and apoptosis in preeclampsia” to Ms. Vaishali Kasture. Funded by **INSPIRE Department of Science and Technology** (2015-2020)
7. Research Associate fellowship for the project “Effects of Maternal Omega-3 Fatty Acid Supplementation on Insulin Receptor Signaling in the Offspring in a Pregnancy-Induced Hypertension Rat Model” Amrita Khaire **Funded by Council of Scientific and Industrial Research** (May 2018- Sept 2018)

8. Junior/ Senior Research Fellowship for the project “Association of vitamin D and fatty acid metabolism in preeclampsia” to Ms. Anindita Nandi. Funded by **University Grant Commission** (April 2015-March 2020)
9. Senior Research Fellowship for the project “Effects of Maternal Vitamin B₁₂ Status and its Influence on Adiponectin and Insulin Signaling Pathway in Wistar Rat Offspring” to Ms. Amrita Khaire. Funded by **Indian Council of Medical Research** (Jan 2015-Dec 2018).
10. Senior Research Fellowship for the project “Regulation of the placental levels and expression of the enzyme methionine adenosyl transferase in preterm pregnancies” to Ms. Vinita Khot. Funded by **Indian Council of Medical Research** (April 2014-March 2017).
11. Senior Research Fellowship for the project “Role of brain derived Neurotrophic factor in preterm pregnancy” to Ms. Madhavi Dhobale. Funded by **Indian Council of Medical Research** (Oct 2009-Sept 2011)
12. Post Doctoral Fellowship for the project “Effect of maternal micronutrients (folic acid vitamin B₁₂) and essential polyunsaturated fatty acids on global methylation patterns in preterm pregnancy” to Dr. Preeti Chavan. Funded by **Indian Council of Medical Research** (Aug 2009-July 2012)
13. Junior/ Senior Research Fellowship for the project “Role of folic acid, vitamin B₁₂ and omega 3 fatty acids during pre-conception period in determining pregnancy outcome” to Ms. Akshaya Meher. Funded by **Department of Science and Technology** (April 2011-March 2016)
14. Senior Research Fellowship for the project “Effect of maternal vitamin B₁₂ deficiency on neurotrophin signaling in the rat offspring” to Ms. Pratiksha Sable. Funded by **Indian Council of Medical Research** (Feb 2012-Jan 2015)
15. Junior/ Senior Research Fellowship for the project “Maternal micronutrients and omega 3 fatty acids on brain development and function” to Ms. Richa Rathod Funded by **Indian Council of Medical Research** (Sep 2012-Aug 2017)
16. Senior Research Fellowship for the project “Effect of maternal vitamin B₁₂ deficiency on neurotrophin signaling in the rat offspring” to Ms. Amrita Khaire. Funded by **Indian Council of Medical Research** (Jan 2015-Dec 2017)
17. Senior Research Fellowship for the project “Effect of omega 3 fatty acid supplementation on placental fatty acid transport proteins in a preeclamptic rat model” to Ms. Nisha S. Wadhwani. Funded by **Center for Scientific and Industrial Research** (April 2013-March 2016)
18. Senior Research Fellowship for the project “Effect of maternal vitamin B₁₂ supplementation on placental matrix metalloproteinases and angiogenesis in Wistar rat” to Ms. Deepali Sundrani. Funded by **Indian Council for Medical Research** (April 2013-March 2016)

19. Junior/ Senior Research Fellowship for the project “Oxidative stress in Preeclamptic placentae” to Ms. Akriti Sahay. Funded by **INSPIRE Department of Science and Technology** (June 2013-May 2018)
20. Senior Research Fellowship for the project “A longitudinal study of maternal nutrients (vitamin D, calcium, phosphorus and magnesium) levels and their associations with blood pressure and birth outcome in preeclampsia” to Mrs. Surabhi Singh. Funded by **Indian Council for Medical Research** (July 2013-June 2016)
21. Junior/ Senior Research Fellowship for the project “Exploring the efficacy of omega-3 fatty acid supplementation to a maternal high fat diet deficient in vitamin B12 in ameliorating the risk for impaired brain development and metabolic syndrome in the offspring” to Ms. Shruti Jawale. Funded by **INSPIRE Department of Science and Technology** (July 2014-June 2019)
22. Junior/ Senior Research Fellowship for the project “Regional differences in fatty acid metabolism in preeclamptic placenta” to Ms. Alka Rani. Funded by **INSPIRE Department of Science and Technology** (June 2012-June 2017)
23. Research Associate Fellowship for the project “Placental endoplasmic reticulum stress markers in women with preeclampsia and their association with amnternal one carbon metabolites” to Ms. Akriti Sahay. Funded by **Indian Council of Medical Research** (July 2019 -January 2021)

Awards Received by Sadhana Joshi:

- Indian Council of Medical Research has designated the Bharati Vidyapeeth University, Interactive Research School in Health Affairs, Pune led by Dr Sadhana Ramchandra Joshi as **ICMR- Collaborating Centre of Excellence - (ICMR-CCoE)** in recognition of the commendable achievements in biomedical research- Sanction date: 18th September 2023
- **9th Dr. Rajammal P. Devadas Memorial Award**, delivered the oration lecture during the National Institute of Nutrition Centenary year and 50th Annual International Conference of Nutrition Society of India. This award was given for outstanding contributions in the field of applied nutritional sciences as evidenced by peer review publications, projects handled and high academic pursuit, 15th -17th Nov, 2018
- **Research Excellence Award for Developing Country Scientist**, 7th World Congress on Developmental Origins of Health and Disease, September 18-21, 2012, in Portland, OR, USA
- **“Best Researcher Award”**, 15th Foundation day Ceremony at Bharati Vidyapeeth University, Pune, 26th April, 2010 at the hands of Chairman, University Grants Commision, Dr. Sukhdeo Thorat

- The **best poster award (for experimental nutrition)** to the paper titled “Sensitivity of Fetus to Of Alpha Linolenic Acid – An Essential Omega Three Fatty Acid” at the XXXVI Annual meet of the Nutrition Society of India. Mysore, 5th and 6th Nov, 2004

Other Awards:

1. **Special Recognition Award. Nikita Joshi**, Aditi Vange, Karuna Randhir, Hemalata Pisal, Girija Wagh, Sanjay Gupte, Sadhana Joshi. Maternal fatty acid metabolites influence cognitive performance in children born to mothers with Gestational Diabetes Mellitus (GDM). Oral presentation (Clinical science category). 9th International Diabetes Summit 2025 organized by Chellaram Diabetes Institute. 7th March - 9th March 2025
2. **First prize in Oral Presentation**, Theme: Metabolic Disorder (Hypertension) and Nutrition. Title: Impact of maternal diet on cognitive performance of children born to mothers with preeclampsia. **Bhargavi Patel**, Vrushali Kadam, Karuna randhir, Kamini Dangat, Hemlata Piasl, Girija Wagh, Deepali Sundrani, Sadhana Joshi. Vishwa Swasthyam Conference. Kokilaben Dhirubhai Ambani Hospital and Medical Research Institute, Andheri west, Mumbai. 10th and 11th Jan, 2025 (International conference)
3. **NSI Prize for Best POSTER PRESENTATION** in Experimental Nutrition Category for the paper "Maternal fatty acid status influences growth in children at 3-7 years" **Vrushali Kadam**, Hemlata Pisal, Karuna Randhir, Kamini Dangat, Girija Wagh, Sanjay Lalwani, Sadhana Joshi, at the 56th Annual Conference of Nutrition society of India held at Symbiosis Pune on 14th - 15th November 2024.
4. **NSI Prize for Best Oral Presentation** in free communication (clinical nutrition) for the paper "Fatty acids status during pregnancy influences placental telomere length" **Aditi Godhamgaonkar**, Deepali Sundrani, Karuna Randhir, Hemlata Pisal, Girija Wagh, Sanjay Gupte, Sadhana Joshi, at the 55th Annual conference of NSI held at ICMR-NIN, Hyderabad on 25th - 26th November 2023.
5. **NSI Prize for Oral Presentation**, for the paper "Maternal Omega-3 Fatty Acid Supplementation Improves Brain Neurotrophins and Angiogenic Markers in the offspring Born to Gestational Diabetes Mellitus Mothers " **Nisha Kemse**, Kamini Dangat, Sadhana Joshi, at 55th Annual Conference of the Nutrition Society of India held at the ICMR-National Institute of Nutrition, Hyderabad, Telangana, INDIA, 25-26 November, 2023.
6. **2nd Prize for Oral Presentation**, for the paper "Effect of Prenatal Omega-3 Fatty Acid Supplementation on Brain Neurotrophins in Offspring Born to Dams With Gestational Diabetes Mellitus (GDM)" **Nisha Kemse**, Sadhana Joshi, at **22nd Annual MRC-SNEHA** International Workshop on Developmental Origins of Health and Disease (DOHaD) held at Interactive Research School for Health Affairs (IRSHA), BVDU, Pune, 4-5 th Feb, 2023
7. Paper entitled 'Association of Maternal Vitamin D Status and Risk of Preeclampsia' was presented in the **Young Scientist's Senior Award** (Community Nutrition) category at 54th Annual International Conference of Nutrition Society of India (NSI), at National Institute of Nutrition, Hyderabad, Telangana on 22nd-23rd December 2022.
8. **Nisha Kemse**, Sadhana Joshi. Maternal Omega-3 Fatty Acid Supplementation Attenuates Memory Deficits in Offspring Born to Gestational Diabetes Mellitus Mothers: Animal

Study "NSI Prize for **Best Poster presentation in the Free Communication session (Experimental Nutrition)** " Held on 22-23 December 2022, at ICMR-NIN, Hyderabad, Telangana.

9. Shweta M, Nisha W, Karuna R, Kamini D, Sanjay G, Girija W, Sadhana J. Longitudinal assessment of maternal plasma folate, vitamin B12 and homocysteine levels in women with gestational diabetes mellitus. NSI Prize for **Best Poster presentation in the Free Communication session (Clinical Nutrition)** Held on 22-23 December 2022, at ICMR-NIN, Hyderabad, Telangana.
10. Nikita Joshi, Akriti Sahay, Aditi Mane, Deepali Sundrani, Karuna Randhir, Girija Wagh, Kent Thornburg, Theresa Powell, Chittaranjan Yajnik, Sadhana Joshi. Altered expression of nutrient transporters in syncytiotrophoblast membranes in preeclampsia placentae. NSI Prize for **Best Oral presentation in the Free Communication session (Experimental Nutrition)** " Held on 22-23 December 2022, at ICMR-NIN, Hyderabad, Telangana.
11. **Free registration** to attend Vitamin D Workshop. Paper titled "Maternal Vitamin D Deficiency Reduces Docosahexanoic acid, Placental growth factor and Peroxisomes Proliferator Activated Receptor Gamma levels in the Pup Brain in a Rat model of Preeclampsia" Juhi Nema, Deepali Sundrani, **Sadhana Joshi**, 13/10/21. ePoster
12. **2nd prize for the "Oral Presentation"** for the paper "Placental Neurotrophin Levels in Gestational Diabetes Mellitus, Anjali Jadhav, **Sadhana Joshi**, 5th International Diabetes Summit (Virtual) -2021 organized by The Chellaram Diabetes Institute (CDI), Pune , 12th to 14th March 2021.
13. **Nanik Gurnani Award** for the paper "Preeclampsia is associated with higher proportions of saturated fatty acids" by Amrita Khaire, Kamini Dangat, Hemlata Pisal, Karuna Randhir, Savita Mehendale, **Sadhana Joshi** at Indian Women Scientist Association held at ICMR- National Institute of Nutrition on 11th-13th Dec, 2019.
14. **Travel grant Award of AUS \$1,675.00** to Ms. Vaishali Kasture to attend DOHaD conference (The International Society for Developmental Origins of Health and Disease) in Melbourne, Australia held from 20th -23rd October, 2019. Title: "Effect of Maternal Omega-3 Fatty Acid and Vitamin E Supplementation on Placental Angiogenic Factors in Subtypes of Preeclampsia" by Vaishali Kasture Surabhi Dalvi, Anvita Kale, **Sadhana Joshi**.
15. **2nd prize for the "Best Poster Presentation"** for the paper "Maternal Vitamin D Deficiency Increases the Thromboxane/Prostacyclin Ratio through Alterations in the One Carbon Cycle in Wistar Rats" by Anindita Nandi, **Sadhana Joshi** at 21st Annual SNEHA-MRC International Workshop on 10th Feb, 2019

16. **2nd position in Best Presentation** for the project “Assessing The Effect Of RUTF on the body composition parameters of severely malnourished children” by Kinjal Dave at BBNC 2019 at St. John's research institute, Bangalore.
17. **“Young Scientist Award in Experimental Nutrition”** for the paper “Omega-3 fatty acids differentially influences embryotoxicity in Subtypes of preeclampsia” by Vaishali Kasture, Surabhi Dalvi, Mayur Swamy, Anvita Kale, **Sadhana Joshi** at 50th Annual International Conference of Nutrition Society of India held at NIN, Hyderabad on 15th - 17th November 2018.
18. **“Young Scientist Award in Experimental Nutrition”** for the paper “Vitamin D deficiency. influences fatty acid metabolism” by Anindita Nandi, Nisha Wadhwani, **Sadhana Joshi** at 50th Annual International Conference of Nutrition Society of India held at NIN, Hyderabad on 15th - 17th November 2018.
19. **Best oral presentation in the Free Communication session (Experimental Nutrition)** for the paper titled “Short- and Long-Term Effects of Maternal Butter Consumption on Adult Wistar Rat Offspring Cardiometabolic and Neurodevelopmental Health” Anvita Kale, Shruti Jawale, **Sadhana Joshi** at 50th Annual International Conference of Nutrition Society of India held at NIN, Hyderabad on 15th - 17th November 2018.
20. **Best oral presentation in the Free Communication session (Community Nutrition)** for the paper titled “Vitamin D status in pregnancy and its association with neonatal vitamin D: A longitudinal study” by Juhi Nema, Deepali Sundrani, Karuna Randhir, Nisha Kemse, Vandana Suryawansh, Shweta Madiwale, Sanjay Gupte, **Sadhana Joshi** at 50th Annual International Conference of Nutrition Society of India held at NIN, Hyderabad on 15th - 17th November 2018.
21. **Best Poster presentation in the Free Communication session (Community Nutrition)** for the paper titled “Micronutrient levels in women with preeclampsia and their association with birth outcome” by Amrita Khaire, Hemlata Pisal, Kamini Dangat, Karuna Randhir, Savita Mehendale, **Sadhana Joshi** at 50th Annual International Conference of Nutrition Society of India held at NIN, Hyderabad on 15th - 17th November 2018.
22. **Best oral presentation** for the paper titled “Maternal one carbon metabolites in women with preeclampsia” by Kasture V, Sundrani D, Mehendale S, Lalwani S, **Sadhana Joshi** at the in International Conference on "Nutrition before, beyond and during first 1000 days of life - evidence & action" National Institute of Nutrition, Hyderabad, Telangana, India, 26 - 28 November 2017.
23. **Best oral presentation** for the paper titled “Vitamin D, Long Chain Polyunsaturated Fatty acid and Inflammation in Preeclampsia” by Anindita N, Wadhwani N, Karuna R, Girija W, **Sadhana Joshi** at the in International Conference on "Nutrition before, beyond & during first 1000 days of life - evidence & action" National Institute of Nutrition, Hyderabad, Telangana, India, 26 - 28 November 2017.

24. Alka Rani received New Investigator award in International Society for the Study of Fatty Acids and Lipids (ISFAAL) Congress, 2016.
25. **NSI Prize for Best oral presentation (Experimental Nutrition)** in the Free Communication session for the paper titled “Effect of supplementation of maternal micronutrients (folic acid, vitamin B₁₂) and omega-3 fatty acids on the expression of genes involved in angiogenesis and inflammation in a pregnancy induced hypertension rat model” by Kemse N, Sundrani D, Kale A, **Sadhana Joshi** at the 48th National conference of the Nutrition Society of India held at St. John’s Research Institute, St. John’s National Academy of Health Sciences, Bangalore, 4-5th November 2016.
26. **2016 Wiley-BioFactors Young Investigator Award** for the paper entitled “Beneficial Effects of Omega-3 Fatty Acids and Vitamin B12 Supplementation on Brain Docosahexaenoic Acid, Brain Derived Neurotrophic Factor and Cognitive Performance in the Second Generation Wistar Rats”, Richa Rathod, **Sadhana Joshi**, 2016.
27. **First prize in oral presentation** for the paper “Breast milk metabolites in preeclampsia” by Kamini Dangat, Deepti Upadhyay, Anitha Kilari, Uma Sharma, Nisha Kemse, Savita Mehendale, Sanjay Lalwani, Girija Wagh, **Sadhana Joshi** and Naranamangalam Jagannathan. (2016). held at 7th International Conference of the International Institute of Food and Nutritional Sciences (IIFANS), New Delhi. MAY 26—27 (PHN-O-11; page 6).
28. **First prize in oral presentation** for the paper “Omega 3 fatty acid supplementation to hypertension induced pregnant rats enhances placental fatty acid transport” by Alka Rani, Nisha Wadhvani, Nisha Kemse, Anvita Kale, Preeti Chavan Gautam, **Sadhana Joshi**. (2016). 7th International Conference of the International Institute of Food and Nutritional Sciences (IIFANS), New Delhi. MAY 26—27 (PHN-O-12; page 7).
29. Best Poster Presentation at the 19th Annual SNEHA-MRC International workshop on Developmental Origins of Health and Diseases (DOHaD), Hyderabad, 26th-28th February, 2016 for the paper - Roy S, Sundrani D, Dangat K, Mehendale S, Lalwani S, **Sadhana Joshi** Reduced long chain polyunsaturated fatty acids (LCPUFA) and increased oxidative stress levels in mothers with preeclampsia delivering male babies.
30. Dr. Deepali Sundrani (ICMR-RA) received **Prof. N. R. Moudgal Young Scientist Award-2016** at the 26th Annual Meeting of the Indian Society for the Study of Reproduction and Fertility (ISSRF) along with International Conference on Reproductive Health with Emphasis on Occupational, Environmental & Lifestyle Factors (ISSRF-2016), to be held on February 18-20, 2016, at NIOH, Ahmedabad.
31. **Best oral presentation award** at International Course in Nutrition Research Methods (Bangalore Boston Nutrition Collaborative-2016 (BBNC-2016)) held at St. Johns Research Institute, Bangalore, India, 3rd – 13th Jan, 2016
32. **Best oral presentation in the Free Communication session (Clinical Nutrition)** for the paper titled “A prospective study of maternal plasma micronutrients and homocysteine across gestation in preeclampsia” by Wadhvani N, Patil V, Mehendale M, Wagh G,

Gupte S, **Sadhana Joshi** at 47th National conference of the Nutrition Society of India held at NIN, Hyderabad, 9th -10th Oct 2015.

33. **“Young Scientist Award in Experimental Nutrition”** for the paper “Omega-3 fatty acid supplementation to vitamin B12 deficient diet improves cardio-metabolic variables: A multigenerational study” by Khaire A, Rathod R, Kale A, **Sadhana Joshi** at 46th Annual National Conference of Nutrition Society of India Organized at Dayanand Medical College and Hospital, Ludhiana, in collaboration with Punjab Agricultural University, Ludhiana on 7th - 8th Nov 2014.
34. **“Ramanathan Award in Experimental Nutrition”** for the paper “intake of snack containing green leafy vegetables, fruit and milk for 12 weeks increases womens body mass index (BMI) - a randomised controlled trial in slums of Mumbai, India” by Chopra H, Kehoe S, Tarwade D, Sane H, Cox V, Potdar R, **Sadhana Joshi**, Fall C at 46th Annual National Conference of Nutrition Society of India Organized at Dayanand Medical College and Hospital, Ludhiana, in collaboration with Punjab Agricultural University, Ludhiana on 7th - 8th Nov 2014.
35. **First prize in oral presentation** for the paper “An Inverse Association of Maternal Micronutrients (Folic Acid, Vitamin B12) and Omega-3 Fatty Acids with Plasma Angiotensin II Type 1 Receptor Autoantibodies (AT1-AA) during Pregnancy” by Sahay AS, Sundrani DP, Patil V, Wagh G, Mehandele S, Gupte S, **Sadhana Joshi** at 5th International Conference on Advances in Food Technology and Health Sciences” New Delhi, 15th -16th October, 2014
36. **Third prize in oral presentation** for the paper “Maternal Omega-3 Fatty Acid Supplementation to a High Fat Diet Normalizes Dam Oxidative Stress and Increases Placental Omega-3 Fatty Acid Levels” by Jawale S, Kale A, **Sadhana Joshi S** at 5th International Conference on Advances in Food Technology and Health Sciences” New Delhi, 15th -16th October, 2014
37. **Best Poster Presentation** for the paper “Alterations in maternal long chain polyunsaturated fatty acids and their transport leads to disturbed fetal store in preeclampsia” by Wadhwani N, Patil V, Pisal H, Joshi A, Mehandele S, Gupte S, Wagh G, **Sadhana Joshi** at the 18th Annual SNEHA INDIA International Workshop on Developmental Origins of Health and Diseases (DOHaD), Fariyas Resort, Lonavala, 26th – 28th Sep, 2014
38. **First prize in oral presentation** for the paper “Omega-3 Fatty Acid Supplementation to a Vitamin B₁₂ deficient/Supplemented Diet Induces Beneficial Effects on Brain Development in the Second Generation Offspring” by Rathod R, Khaire A, Kale A, **Sadhana Joshi S** at 4th International Conference on Updating Food Technology: A Challenge towards Public Health Nutrition (ICUFT-2014), Delhi, May 2014
39. **Second prize in oral presentation** for the paper “Maternal vitamin B₁₂ status and omega-3 fatty acids regulate lipid metabolism in wistar rat offspring” by Khaire A, Rathod R, Kale A, **Sadhana Joshi S** at 4th International Conference on Updating Food

Technology: A Challenge towards Public Health Nutrition (ICUFT-2014), Delhi, May 2014

40. **Second prize for oral presentation** for the paper “Effect of N-Nitro-L-Arginine Methyl Ester-induced preeclampsia and micronutrient supplementation on pregnancy outcomes using Wistar rats” by Kemse N, Kale A, **Sadhana Joshi S** at International Conference on Food Technology: Impact on Nutrition and Health (ICFIN-2013), Delhi, December, 2013
41. **“Best Poster Award”** for poster titled “Antihypertensive effect of herbal medicine Gokshur siddha ghrita (GSG) in a preeclampsia rat model” by Kilari A, Deshpande M, **Sadhana Joshi S** at the 16th OMICS group International conference and Exhibition on Traditional & Alternative Medicine, Hyderabad, 9th-11th Dec 2013
42. **Ramanathan Prize** for the best oral presentation in the Free Communication session for the paper titled “Altered methylation and expression patterns of genes regulating placental angiogenesis in preterm pregnancy” by Sundrani DP, Reddy U, Chavan-Gautam P, Mehendale S, Chandak G, **Sadhana Joshi S** at 45th National conference of the Nutrition Society of India held at NIN, Hyderabad, 21st -22nd Nov 2013
43. **Best Oral Presentation** in UGC sponsored national seminar on recent trends in life sciences for the paper titled “Preterm deliveries: risk for neurodevelopmental disorders” by Dhobale M, Pisal H, Mehendale S, **Sadhana Joshi S**. Dec 2012
44. **Young Scientists’ Senior Award** for the paper titled “Effect of maternal micronutrients (Folic acid and vitamin B₁₂) and omega 3 fatty acids on indices of brain oxidative stress in the offspring” by Roy S, Sable P, Randhir K, Kale A, **Sadhana Joshi S** at the 44th national Conference of the Nutrition Society of India held at the Sri Venkateswara University, Tirupati, 15th-17th Nov, 2012
45. **Young Scientists’ Junior Award** for the paper titled “Placental levels of matrix metalloproteinase-2, -3 and tissue inhibitors of metalloproteinases -1, -2 in preterm pregnancy” by Sundrani D, Chavan Gautam P, Pisal H, Mehendale S, **Sadhana Joshi** at the 44th national Conference of the Nutrition Society of India held at the Sri Venkateswara University, Tirupati, 15th-17th Nov, 2012
46. **RAMANATHAN PRIZE for the best oral presentation in the Free Communication session** for the paper titled “Effect of maternal micronutrients and omega 3 fatty acids on brain neurotrophins in the rat offspring” by Sable P, Dangat K, Joshi A, **Sadhana Joshi** at the 44th national Conference of the Nutrition Society of India held at the Sri Venkateswara University, Tirupati, 15th-17th Nov, 2012
47. **1st Best Oral Presentation** for the paper titled “Effect of pre-conceptional maternal micronutrients and omega 3 fatty acids on dam placental fatty acid profile in Wistar rats” by Meher A, Kulkarni A, **Sadhana Joshi** at the ICMR sponsored “International Conference on Food and Nutrition Technology for Public Health Care (ICFNP-2012)” at Jawaharlal Nehru University, New Delhi, 4th-5th May, 2012.
48. **Young Scientist Award – Junior Category (for experimental nutrition)** for the paper titled “Maternal omega 3 fatty acids and micronutrients affect placental fatty acid

desaturases and transport proteins in Wistar rats” by Wadhwani N, Dangat K, Kulkarni A, **Sadhana Joshi** at the 43th Annual meet of the Nutrition Society of India Hyderabad, 11th to 12th Nov, 2011

49. **Best Oral Presentation (for experimental nutrition)** for the paper titled “Preconception maternal micronutrient deficiency: reproductive cycles and breast development in Wistar rats” by Meher A, Kulkarni A, **Sadhana Joshi** at the 43th Annual meet of the Nutrition Society of India Hyderabad, 11th to 12th Nov, 2011
50. Nisha Wadhwani was awarded **best presentation award** during the **International Course in Nutrition Research Methods (Bangalore Boston Nutrition Collaborative), St. John’s Institute, Bangalore, 17th – 28th Jan, 2011**
51. **Young Scientist Award – Junior Category (for experimental nutrition)** for the paper titled “Maternal micronutrients (folic acid and vitamin B12) and omega 3 fatty acids: Implications for neurodevelopmental risk in the rat offspring” by Sable P, Roy S, Kale A, Dangat K, Kulkarni A, **Sadhana Joshi** at the 42nd Annual meet of the Nutrition Society of India Mumbai, 18th to 20th Nov, 2010
52. **Best poster award (for experimental nutrition)** was awarded to the paper titled “Association of one-carbon metabolism (reduced folic acid, vitamin B₁₂), docosahexaenoic acid and homocysteine concentrations in patients with schizophrenia” by Kale A, Naphade N, Sapkale S, Raju MSVK, Pillai A, **Sadhana Joshi S**, Mahadik S. at the 41st Annual meet of the Nutrition Society of India. Hyderabad, 20th-21st Nov 2009
53. **RAMANATHAN AWARD** for the best oral presentation in the Free Communication Session for the paper titled “Essential polyunsaturated fatty acids and nerve growth factor levels in first episode schizophrenia” by Kale A, **Sadhana Joshi S**, Naphade N, Sapkale S, Raju MSVK, Pillai A, Mahadik S at the 39th National Conference of the Nutrition Society of India held at National Institute of Nutrition, Hyderabad, 15th-16th Nov 2007

Invited to Deliver the Following Talks:

1. Dr. Sadhana Joshi talk on "Designing a Research Project" at the Research Methodology Workshop organized by MRU, Gandhi Medical College, Bhopal in association with ICMR Collaborating Centre of Excellence Bharati Vidyapeeth (Deemed to be University), Interactive Research School for Health Affairs (IRSHA), Pune on 25th to 27th June 2025
2. Dr. Deepali Sundrani talk on "Writing Scientific Publications" at the Research Methodology Workshop organized by MRU, Gandhi Medical College, Bhopal in association with ICMR Collaborating Centre of Excellence Bharati Vidyapeeth (Deemed to be University), Interactive Research School for Health Affairs (IRSHA), Pune on 25th to 27th June 2025
3. Dr. Sadhana Joshi talk on "Designing a Research Project, Publications and Patents at the Research Methodology Workshop organized by Punyashlok Ahilyadevi Holkar Government Medical College, Baramati in association with ICMR Collaborating Centre of Excellence Bharati Vidyapeeth (Deemed to be

- University), Interactive Research School for Health Affairs (IRSHA), Pune on 18th March 2025
4. Dr. Sadhana Joshi talk on "Designing a Research Project" at the ResearchMethodology and Good Laboratory Practices (GLP) Workshop at Department of Anatomy, Institute of Medical Sciences, Banaras Hindu University (BHU), Varanasi on 13th to 14th February 2025.
 5. Dr. Deepali Sundrani on "Funding Proposal Essentials: Budget and Timeline Management" at the ResearchMethodology and Good Laboratory Practices (GLP) Workshop at Department of Anatomy, Institute of Medical Sciences, Banaras Hindu University (BHU), Varanasi on 13th to 14th February 2025.
 6. Dr. Sadhana Joshi.Chief guest for Women's Day program on 15th March 2025, Poona College of Pharmacy, Pune.
 7. Dr. Sadhana Joshi talk on "Designing a Research Project" at the Research Methodology Workshop at Institute of Medical Sciences, Banaras Hindu University (BHU), Varanasi in association with ICMR Collaborating Centre of Excellence Bharati Vidyapeeth (Deemed to be University), Interactive Research School for Health Affairs (IRSHA), Pune organized by Institute of Medical Sciences, Banaras Hindu University (BHU), Varanasi on 18-20th December 2024
 8. Dr. Sadhana Joshi talk on "Publications and Patents" at the Research Methodology Workshop at Institute of Medical Sciences, Banaras Hindu University (BHU), Varanasi in association with ICMR Collaborating Centre of Excellence Bharati Vidyapeeth (Deemed to be University), Interactive Research School for Health Affairs (IRSHA), Pune organized by Institute of Medical Sciences, Banaras Hindu University (BHU), Varanasi on 18-20th December 2024
 9. Dr. Deepali Sundrani talk on "Timeline and budget for grant proposal " at the Research Methodology Workshop at Institute of Medical Sciences, Banaras Hindu University (BHU), Varanasi in association with ICMR Collaborating Centre of Excellence Bharati Vidyapeeth (Deemed to be University), Interactive Research School for Health Affairs (IRSHA), Pune organized by Institute of Medical Sciences, Banaras Hindu University (BHU), Varanasi on 18-20th December 2024
 10. Sadhana Joshi delivered a talk on the topic "Biomarkers in Pregnancy" as an Invited Faculty at the CME on "Impact of Laboratory Investigations on Clinical Outcome," organized by the Association of Clinical Biochemists of India (ACBI) and the Department of Pathology, Deenanath Mangeshkar Hospital & Research Center, Pune, on 2nd February 2025.
 11. "Introduction to DOHaD" Invited speaker at the Indian Association of Biological Psychiatry (IABP) National Mid-year Conference, co-organized with the Department of Psychiatry, BVUMC, Pune, on 23rd June 2024.
 12. Health & Nutrition of women Keynote Speaker" for the webinar titled "Women's Health & Career Opportunities in Nutrition & Dietetics" organized to commemorate World Health Day 2023 (NSI Mumbai Chapter for 23rd April 2023)

13. Maternal nutrition and Developmental Origins of Health and Disease: Indian Scenario, 3rd International Conference on Maternal Newborn and Child Health in Belagavi from November 11-13, 2022
14. "Influence of maternal one carbon metabolites on placental programming and long term health" at the International Federation of Placenta Associations (IFPA) conference, Amsterdam (virtual) Sept 2, 2021.
15. "Effect of maternal vitamin supplementation on brain neurotrophins and cognitive performance in the offspring " at IBRO-APRC Associate School on Biophysical to Molecular Techniques: An interface in Neurobiology Research, IGNTU, Amarkantak (MP) August 27, 2021
16. "Importance of LC-PUFA in pregnancy and early life" PRERNA platform, VRHP, KEMHRC, Pune, Date: Jul 23, 2021
17. Lessons to learn: Insights to become a successful researcher". Symbiosis Institute of Health Sciences (SIHS), a constituent of Symbiosis International (Deemed University), Lavale, Pune, Maharashtra. 21st July 2021
18. Invited as a Panelist to discuss the "Multidisciplinary approach to the Micronutrient deficiencies in children" at a webinar organized by Indian Dietetic Association, Mumbai chapter, 25th-28th Sept 2020.
19. "Role of pre-conceptional Nutrition on Pregnancy outcome and future health: Evidence based Nutritional Concepts at International Webinar organized by Nutrition Society of India Mumbai Chapter on "Translational Research In Nutrition And Dietetics" on occasion of National Nutrition Month 2020 on 1st - 2nd Sept 2020
20. "Developmental Origins of Health and Disease: Placental Programming in Preeclampsia and Long-Term Health" at Golden Jubilee Conference of NIRRH, Mumbai at Mumbai University, Kalina, 22 Feb, 2020.
21. "Role of maternal vitamin D and one carbon metabolites in pregnancy complications" at Deenanath Mangeshkar Hospital & Research Center, Erandawane, Pune 18th January, 2020.
22. "Developmental Origins of Health and Disease: Clinical Implications" at Bharati Hospital, Pune, 11th Dec, 2019.
23. "Epigenetics and Developmental Origin of Health and Disease" at Symbiosis School of Biological Sciences 4th symposium on "Emerging Trends in Biomedical Sciences" 25th January, 2019.
24. "Maternal long chain polyunsaturated fatty acids and pregnancy complications" at NIN-ISSFAL symposium on Fats in maternal and child health nutrition, 18th Sept, 2018.
25. "Role of Nutrition in Risk of Preeclampsia", at "New Delhi Birth Cohort Golden Jubilee Celebrations" conference on "Lessons from the Indian Birth Cohorts", 29th Sept, 2018.
26. "Maternal Nutrition and Pregnancy Induced Hypertension" at Indian Dietetic Association, Pune Chapter, 21st April, 2018.
27. "Importance of Dietary Fats in early life" at National Institute of Nutrition, Hyderabad, 28th Nov, 2017.
28. "Multigenerational Effects of Vitamin B12 and Omega 3 Fatty Acids on Brain Development and Cardiometabolic Risk Factors", Natinal symposium on

- micronutrient deficiencies and NCDs: Indian Scenario, ICMR, NIN, Hyderabad, at National Institute of Nutrition, 30th May, 2017.
29. "Emerging trend of Omega 3 fatty acids in the field of therapeutics" at the AICTE sponsored two weeks Quality Improvement Programme on "Emerging Trends in Pharmacological Research: Convergence of Molecular Targets" organized by Poona College of Pharmacy, Bharati Vidyapeeth University, 19th – 31st December, 2016.
 30. Invitation to participate in the 2016 Grand Challenges Meeting sponsored by Bill & Melinda Gates Foundation at QEII Conference Centre, London, England, 23rd – 28th October, 2016.
 31. "Prenatal Maternal Nutrition" at the workshop "Securing Our Children's Future: Nutrition and Immunity for Infant and Child Health" organised by MSD Wellcome Trust Hilleman Laboratories Pvt. Ltd. New Delhi. 21st - 22nd September 2016.
 32. "Maternal Sex Specific Differences in Fetal Programming for Adult Diseases at First Mysore international conference on medical and social sciences Theme gender equity: social issues and health challenges in today's context", 24th-27th November 2015.
 33. "Altered Maternal Nutrition (Folic Acid, Vitamin B12 and Omega-3 Fatty Acids) and Risk for Non-communicable Diseases in the Offspring in Later Life at International Congress on Obesity and Metabolic Syndrome in conjunction with the 43rd Annual Scientific Meeting of KSSO organized by ICOMES, Seoul, Korea, 12th-14th November 2015.
 34. "Nutrigenomics Mechanisms and consequences", Abhyas Mahotsav, Mumbai on the topic, 5th February, 2015
 35. "Nutrigenomics in pregnancy" at Nirmala Niketan, Mumbai, 5th February, 2015.
 36. "Maternal Nutrition and its effect on health of the next generation, 102nd Indian Science Congress, Mumbai on the topic" , 3rd -7th January 2015
 37. Mechanism Underlying the Association of Maternal Nutrition (folic acid, vitamin B12, and Omega 3 fatty acids) and Risk for Diseases in Later Life," 18th Annual Meeting of SNEHA, Lonavala on the topic, 26th – 28th September 2014
 38. "Maternal Nutrition, Epigenetics and Adult Health", Plenary Session at the Indian Dietetic Association (IDA) conference, Pune, 12th-14th Dec 2013
 39. Maternal Diet Induced Systemic and Intrauterine Inflammation: Risk for Non-communicable Disease in the Offspring", 45th National Conference of the Nutrition Society of India at Hyderabad , 20th-21st Nov 2013
 40. "Asian perspective on PUFA supply in pregnancy infants: review of evidence and proposed recommendations" Asia Pacific Workshop on Polyunsaturated fatty acids, Singapore, 15th-17th Nov 2013
 41. "Epigenetic influence on young India, Keynote address at West Zone YUVA FOGSI Conference, Bhopal, 6th-8th Sept 2013
 42. "Maternal micronutrients in the one carbon cycle and epigenetic programming" held at the C.S.I.R - Institute of Genomics and Integrative Biology, New Delhi, 8th-10th March 2013

43. International Conference focusing on the theme “Enhancing Health, Well-being and Sustainability - Opportunities, Challenges and Future Directions, 10th–12th Jan 2013
44. Delivered two talks at the World Congress-BCGIP, India & 2nd Annual Congress of Society of Fetal Medicine, 16th-18th Nov 2012
45. Keynote address at the Gestosis “A disturbed Pregnancy” Conference at Bangalore. Organized by the Federation of Obstetrics and Gynecologists, Bangalore, 11th Aug 2012
46. Tata Institute of Social Sciences, Platinum Jubilee Year, Symposium on Food security, nutrition, the environment and survival. Role of women for a healthy society, Mumbai, 18th Feb 2012
47. “Maternal and Child Health Care with Specific reference to Nutrition and Nutrition Security” Plenary session, 99th Indian Science **Congress**, Bhubaneswar, Orissa, 3rd-7th Jan, 2012
48. Indo-UK workshop at National Institute of Nutrition Sponsored by Wellcome Trust UK. 3-day Indo-UK workshop at NIN, Hyderabad on the 8th -10th September, 2011 to plan longitudinal studies on infant feeding, child growth, development and adult health outcomes
49. “Possible Mechanisms of Altered Maternal micronutrients (folic acid and vitamin B₁₂) and omega 3 fatty acid Metabolism in DOHaD: Use of Rat Models” at the ICMR centenary celebrations National Institute of Nutrition, 25th -26th June, 2011
50. Nutraceutical approach for better pregnancy outcome and prevention of diseases. Innovations in Pharmacology. Bharati Vidyapeeth University, 22nd Nov- 4th Dec, 2010
51. Omega 3 fatty acids and antioxidants: Nutraceutical approach to better pregnancy outcome. 5th nutraceutical summit. India’s biggest nutraceutical, functional foods, dietary supplements and ingredients show, New Delhi, 28th - 30th Oct, 2009

PUBLICATIONS (Total 176, International: 169, National: 7)

Total number of publications =178

International: 171

National: 7

Total factor = 495.13

Average impact factor = 3.562

Book Chapters = 9

Publications in International Journals:

- 1 Cohort profile of the ICMR-Stillbirth Pooled India Cohort (ICMR-SPIC): Estimating Prevalence, Analyzing Risk Factors, and Developing Prediction Models for Stillbirths in India. Journal : BMJ open , Author: ICMR-SPIC Consortium, Reema Mukherjee, Dr. Sadhana Joshi, Dr. Juhi Nema
- 2 Kadam, V., Dangat, K., Pisal, H., Randhir, K., Mehendale, S., Deshpande, R., ... & Joshi, S. (2025). Maternal plasma fatty acids at delivery are associated with newborn weight and anthropometric measures in children at 3-7 years. *Nutrition, Metabolism and Cardiovascular Diseases*, 104259.
- 3 Sundrani Deepali, Patil Sucheta, Kapare Aishwarya, Yadav Himanshi, Randhir Karuna, Kasibhatla Sunitha, Gupte Sanjay, Joshi Sadhana. Placental miRNA profiling in Assisted Reproductive Technology (ART) pregnancies (July 2025) Journal of Assisted Reproduction and Genetics. (IF: 2.7)
- 4 Joshi, N., & Joshi, S. (2025). Fatty acid metabolism in the placenta of Gestational Diabetes Mellitus. *Prostaglandins, Leukotrienes and Essential Fatty Acids*, 102682. (IF: 2.9)
- 5 Madiwale S, Joshi N, Randhir K, Pisal H, Kadam V, Krishnaveni G, Wagh G, Gupte S, Fall C, Joshi S. Longitudinal assessment of maternal micronutrients (folate and vitamin B12) and homocysteine levels in women who develop gestational diabetes mellitus. *Eur J Clin Nutr*. 2025 Feb 17. (IF:3.6)
- 6 Nema J, Joshi S. Vitamin D mitigates soluble endoglin levels in preeclampsia by regulating sphingomyelin/ceramide content of the placental exosome. *Medical Hypotheses*. 2025 Feb 1;195:111556. (IF:2.1)
- 7 Madiwale S, Kasture V, Sundrani D, Krishnaveni GV, Gupte S, Joshi S. Angiogenic Markers in Gestational Diabetes and their Association with Placental Dimensions. *Mol Cell Biochem*. 2025 Jun;480(6):3637-3646. (IF:3.5)
- 8 Sundrani D, Kapare A, Yadav H, Randhir K, Gupte S, Joshi S. Placental expression and methylation of angiogenic factors in assisted reproductive technology pregnancies from India. *Epigenomics*. 2025 Jan;17(1):21-31. (IF:3.0)
- 9 Kinare A, Joshi P, Dangat K, Gupte S, Tipnis M, Singh G, Randhir K, Madiwale S, Pisal H, Wagh G, Lalwani S, Joshi S, Fall C, Sachdev HS. Comparison of fetal growth patterns from Western India with Intergrowth-21st. *PLoS One*. 2024 Oct 14;19(10):e0310710. (IF:2.9)
- 10 Vaishya S, Joshi SR. Tracing the Lipid Fingerprints of Preeclampsia. *Reprod Sci*. 2025 Jan;32(1):52-63. (IF: 2.6)
- 11 Kemse N, Chhetri S, Joshi S. Beneficial effects of dietary omega 3 polyunsaturated fatty acids on offspring brain development in gestational diabetes mellitus. *Prostaglandins Leukot Essent Fatty Acids*. 2024 Mar;202:102632. (IF: 3.015)
- 12 Nema J, Sundrani D, Randhir K, Deshpande J, Lalwani S, Wagh G, Gupte S, Joshi S. Maternal angiogenic factor disruptions prior to clinical diagnosis of preeclampsia: insights from the REVAMP study. *Hypertens Res*. 2024 Sep;47(9):2532-2548. (IF: 5.40)
- 13 Godhamgaonkar A, Dangat K, Randhir K, Chhetri S, Shelke K, Shukla D, Wagh G, Lalwani S, Gupte S, Joshi S. Longitudinal Assessment of Oxidative Stress

Markers in Women with Preeclampsia. *Reprod Sci.* 2024 Sep;31(9):2731-2740.(IF:2.3)

- 14 Joshi N, Jadhav A, Godhamgaonkar A, Sundrani D, Randhir K, Pisal H, Wagh G, Krishnaveni G, Gupte S, Joshi S. Fatty acids and their metabolites (resolvins) are altered in women with gestational diabetes mellitus (GDM). *Food Funct.* 2024 Mar 18;15(6):3023-3035. (IF: 6.1)
- 15 Godhamgaonkar AA, Wadhwani NS, Randhir KN, Selukar SS, Dalvi S, Dangat K, Wagh GN, Lalwani S, Chandhiok N, Kulkarni B, Fall C, Sachdev HPS, Gupte S, Joshi SR. Erythrocyte fatty acids and desaturase indices in early pregnancy are associated with risk of preeclampsia. *Prostaglandins Leukot Essent Fatty Acids.* 2023 Sep;196:102583. (IF: 3.015)
- 16 Dangat K, Wadhwani N, Randhir K, Poddar A, Gupte S, Wagh G, Lalwani S, Joshi S. Longitudinal profile of high-sensitivity C-reactive protein in women with pre-eclampsia. *Am J Reprod Immunol.* 2023 Aug;90(2):e13741. (IF:3.777)
- 17 Sundrani D, Karkhanis A, Randhir K, Panchanadikar T, Joshi S. MicroRNAs targeting peroxisome proliferator-activated receptor (PPAR) gene are differentially expressed in low birth weight placentae. *Placenta.* 2023 Aug;139:51-60. (IF: 3.287)
- 18 Pathare-Ingawale P, Gogate N, Thube Y, Mansour SMA, Chavan-Gautam P, Wagh G, Joshi S. Association between proNGF receptors and apoptotic factors in human placentae. *Placenta.* 2023 Aug;139:43-48. (IF: 3.287)
- 19 Joshi N, Sahay A, Mane A, Sundrani D, Randhir K, Wagh G, Thornburg K, Powell T, Yajnik C, Joshi S. Altered expression of nutrient transporters in syncytiotrophoblast membranes in preeclampsia placentae. *Placenta.* 2023 Aug;139:181-189.
- 20 Joshi NP, Madiwale SD, Sundrani DP, Joshi SR. Fatty acids, inflammation and angiogenesis in women with gestational diabetes mellitus. *Biochimie.* 2023 Sep;212:31-40. (IF: 4.079)
- 21 Nema J, Wadhwani N, Randhir K, Dangat K, Pisal H, Kadam V, Mehendale S, Wagh G, Kulkarni B, Sachdev HS, Fall C, Gupte S, Joshi S. Association of maternal vitamin D status with the risk of preeclampsia. *Food Funct.* 2023 May 22;14(10):4859-4865. (IF: 6.317)
- 22 Kaur L, Sundrani D, Dave K, Randhir K, Mehendale S, Bayyana S, Kalyanaraman K, Chandak GR, Joshi S. Hypoxia Inducible Factors (HIF1 α and HIF3 α) are differentially methylated in preeclampsia placentae and are associated with birth outcomes. *Mol Cell Biochem.* 2023 Oct;478(10):2309-2318. (IF: 3.842)
- 23 Wadhwani N, Dangat K, Randhir K, Poddar A, Joshi P, Pisal H, Kadam V, Bakshi R, Chandhiok N, Lalwani S, Mehendale S. Longitudinal assessment of calcium and magnesium levels in women with preeclampsia. *Biological trace element research.* 2023 Jul;201(7):3245-55. (IF: 4.081)
- 24 Dangat K, Gupte S, Wagh G, Lalwani S, Randhir K, Madiwale S, Pisal H, Kadam V, Gundu S, Chandhiok N, Kulkarni B, Joshi S, Fall C, Sachdev HS. Gestational weight gain in the REVAMP pregnancy cohort in Western India: Comparison with international and national references. *Front Med (Lausanne).* 2022 Oct 5;9:1022990. (IF: 5.058)

- 25 Kinjal Dave, Lovejeet Kaur, Deepali Sundrani, Preeti Sharma, Swati Bayyana, Savita Mehendale, Karuna Randhir, Giriraj R Chandak, Sadhana Joshi. Association of placental fatty acid desaturase 2 (FADS2) methylation with maternal fatty acid levels in women with preeclampsia. *Prostaglandins, Leukotrienes and Essential Fatty Acids*, 2022 July; 184, 102472. (IF: 4.006)
- 26 Nema J, Joshi N, Sundrani D, Joshi S. Influence of maternal one carbon metabolites on placental programming and long term health. *Placenta*. 2022 Jul;125:20-28. (IF:3.481).
- 27 Juhi Nema, Karuna Randhir, Nisha Wadhwani, Deepali Sundrani, Sadhana Joshi, Maternal Vitamin D Deficiency Reduces Docosaheptaenoic Acid, Placental Growth Factor and Peroxisome Proliferator Activated Receptor Gamma levels in the Pup Brain in a Rat Model of Preeclampsia. *Prostaglandins, Leukotrienes and Essential Fatty Acids*. 2021 Dec; 175:102364. (IF: 4.006)
- 28 Shruti Koparkar, Leena Srivastava, Karuna Randhir, Kamini Dangat, Hemlata Pisal, Vrushali Kadam, Nandini Malshe, Nisha Wadhwani, Sanjay Lalwani, K. Srinivasan, K. Kumaran, Caroline Fall, Sadhana Joshi. Cognitive function and behavioural problems in children born to mothers with preeclampsia: An Indian Study. *Child Neuropsychology*. 2021 Sep 30; 1-18. (IF: 2.5)
- 29 Vaishali Kasture; Deepali Sundrani; Karuna Randhir; Girija Wagh. Placental apoptotic markers are associated with placental morphometry. *Placenta*. 2021 Nov; 115:1-11. (IF:3.481)
- 30 Joshi NP, Mane AR, Sahay AS, Sundrani DP, Joshi SR, Yajnik CS. Role of Placental Glucose Transporters in Determining Fetal Growth. *Reprod Sci*. 2021 Aug 2. (IF: 3.060)
- 31 Sundrani D, Joshi S. Assisted Reproductive Technology (ART) and Epigenetic Modifications in the Placenta. *Human Fertility*. 2021 Oct 27; 1-13. (IF: 2.767)
- 32 Sundrani DP, Karkhanis AR, Joshi SR. Peroxisome Proliferator-Activated Receptors (PPAR), fatty acids and microRNAs: Implications in women delivering low birth weight babies. *Syst Biol Reprod Med*. 2021 Feb; 67(1):24-41. (IF: 3.061)
- 33 Jadhav A, Khaire A, Gundu S, Wadhwani N, Chandhiok N, Gupte S, Joshi S. Placental neurotrophin levels in gestational diabetes mellitus. *Int J Dev Neurosci*. 2021 Jun; 81(4):352-363. (IF: 2.457)
- 34 Jadhav A, Khaire A, Joshi S. Exploring the role of oxidative stress, fatty acids and neurotrophins in gestational diabetes mellitus. *Growth Factors*. 2021 Mar 11:1-9. (IF: 2.511)
- 35 Deshpande JS, Sundrani DP, Sahay AS, Gupte SA, Joshi SR. Unravelling the potential of angiogenic factors for the early prediction of preeclampsia. *Hypertens Res*. 2021 Jul;44(7):756-769. (IF: 3.872)
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1. **Nikita Joshi**, Aditi Vange, Karuna Randhir, Hemalata Pisal, Girija Wagh, Sanjay Gupte, Sadhana Joshi. Maternal fatty acid metabolites influence cognitive performance in children born to mothers with Gestational Diabetes Mellitus (GDM). Oral presentation (Clinical science category). 9th International Diabetes Summit 2025 organized by Chellaram Diabetes Institute. 7th March - 9th March 2025
2. Oral presentation. Shweta Madiwale, Aditi Godhamgaonkar, Aishwarya Karkhanis, Vaishali Kasture, Hemlata Pisal, Karuna Randhir, Deepali Sundrani, Girija Wagh, Sanjay Gupte, Sadhana Joshi Elevated placental Inflammation as a mediator of adverse outcomes in Gestational Diabetes Mellitus 9th International Diabetes Summit 2025 (Chellaram Diabetes Institute) Dates : 7th - 9th March 2025. JW Marriott, Pune
3. Sunaina Chhetri: Oral presentation, Theme : Metabolic Disorder (Hypertension) and Nutrition. Title: Effect of excess maternal vitamin B12 supplementation on cardiometabolic variables in wistar rats. Vishwa Swasthyam Conference. Kokilaben Dhirubhai Ambani Hospital and Medical Research Institute, Andheri west, Mumbai. Date : 10th and 11th Jan, 2025
4. Bhargavi Patel: Oral Presentation, Theme: Metabolic Disorder (Hypertension) and Nutrition. Title: Impact of maternal diet on cognitive performance of children born to mothers with preeclampsia. Vishwa Swasthyam Conference. Kokilaben Dhirubhai Ambani Hospital and Medical Research Institute, Andheri west, Mumbai. Date : 10th and 11th Jan, 2025
5. Poster presentation for the paper "Methylation and Gene Expression of Angiogenic Factors in the Assisted Reproductive Technology (ART) Placentae" Deepali Sundrani, Aishwarya Kapare, Himanshi Yadav, Karuna Randhir, Sanjay Gupte, Sadhana Joshi, at the 16th Annual Meeting of Proteomics Society, India and International Conference on Integrated Omics Approaches for Decoding Biological Research held at CSIR-National Chemical Laboratory, Pune on 21st- 23rd November 2024.
6. Oral Presentation, for the paper "Effect of Prenatal Omega-3 Fatty Acid Supplementation on Brain Neurotrophins in Offspring Born to Dams With Gestational Diabetes Mellitus (GDM)" Nisha Kemse, Sadhana Joshi, at 22nd Annual MRC-SNEHA International Workshop on Developmental Origins of Health and Disease (DOHaD) held at Interactive Research School for Health Affairs (IRSHA), BVDU, Pune, 4-5 th Feb, 2023
7. Shweta Madiwale, Deepali Sundrani, Karuna Randhir, Kamini Dangat, Sanjay Gupte, Girija Wagh, Chittaranjan Yajnik, Sadhana Joshi, Oral Presentation, " Placental measures in gestational diabetes mellitus women " at 22nd Annual MRC-SNEHA International Workshop on Developmental Origins of Health and Disease (DOHaD) held at Interactive Research School for Health Affairs (IRSHA), BVDU, Pune, 4-5 th Feb, 2023
8. Juhi Nema, Juilee Deshpande, Deepali Sundrani, Karuna Randhir, Girija Wagh, Sanjay Gupte, Harshpal Singh Sachdev, Caroline Fall, Sadhana Joshi. Oral Presentation, "Altered Angiogenesis in women who subsequently develop Preeclampsia: A longitudinal study" at 22nd Annual MRC-SNEHA International Workshop on

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9. Paper entitled 'Role of fatty acid desaturases in preeclampsia' was presented as an e-poster at 22nd SNEHA-MRC International Workshop on Developmental Origins of Health and Disease (DOHaD) at Interactive Research School for Health Affairs, Pune, Maharashtra on 4th-5th February 2023. Authors: Aditi Godhamgaonkar, Nisha Wadhwani, Karuna Randhir, Sakshi Selukar, Surabhi Dalvi, Divya Shukla, Kamini Dangat, Girija Wagh, Sanjay Lalwani, Nomita Chandhiok, Bharati Kulkarni, Caroline Fall, Harshpal Singh Sachdev, Sanjay Gupte, Sadhana Joshi.
10. Paper entitled 'Early pregnancy oxidative stress is associated with shorter placental telomeres' was presented as poster in International Federation of Placenta Associations conference held at Rotorua, New Zealand from the 5th – 8th September 2023. Authors: Aditi Godhamgaonkar, Deepali Sundrani, Karuna Randhir, Hemlata Pisal, Girija Wagh, Sanjay Gupte, Sadhana Joshi
11. Sadhana Joshi. Influence of maternal one carbon metabolites on placental programming and long term health. International Federation of Placenta Associations (IFPA). 2/09/21. Oral Virtual.
12. Vaishali Kasture, Sadhana Joshi. "Placental apoptotic markers are associated with placental morphometry" International Federation of Placenta Associations (IFPA) 2/09/21. Oral Virtual.
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Papers Presented in National Conferences:

Banglore Dr. Sadhan Joshi

1. Sundrani D, Yadav H, Randhir K, Gupte S, Joshi J. Maternal fatty acids influence microRNA regulation of angiogenic factors in Assisted Reproductive Technology (ART) placentae. Oral presentation at the Golden Jubilee Conference of Association of Clinical Biochemists of India, organized by Dept of Biochemistry, PGIMER, Chandigarh on 4-7th December 2024.
2. Sundrani D, Patil S, Kapare A, Yadav H, Randhir K, Kasibhatla S, Gupte S, Joshi S. Placental miRNA profiling in Assisted Reproductive Technology (ART) pregnancies: pathway analysis. Poster presentation at the Accelerating Biology 2025 conference

organized by Centre for Development of Advanced Computing (CDAC), Pune on 7-9th Jan 2025.

3. Oral presentation in free communication (Experimental Nutrition) for the paper "Influence of Assisted Reproductive Technology (ART) procedures on placental fatty acid status and their association with birth outcome" Aishwarya Kapare, Deepali Sundrani, Himanshi Yadav, Karuna Randhir, Sanjay Gupte, Sadhana Joshi, at the 56th Annual conference of NSI held at Symbiosis International (Deemed University), Pune on 14th - 15th November 2024.
4. Oral presentation at Young Scientist Award Session (senior award) in free communication (experimental nutrition) for the paper " Maternal fatty acid status influences placental fatty acid oxidation and transport in women with gestational diabetes mellitus (GDM)" Nikita Joshi, Deepali Sundrani, Karuna Randhir, Hemalata Pisal, Girija Wagh, Sanjay Gupte, Sadhana Joshi, at the 56th Annual conference of NSI held at Symbiosis International (Deemed University), Pune on 14th - 15th November 2024.
5. Poster presentation in free communication (experimental nutrition) for the paper "Excess maternal vitamin B12 supplementation differentially influences maternal fatty acids" Sunaina Chhetri, Nisha G. Kemse, Sadhana R. Joshi, at the 56th Annual conference of NSI held at Symbiosis International (Deemed University), Pune on 14th - 15th November 2024.
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PhD SUPERVISION

Students Completed PhD:

1. **Asmita Kulkarni**: Epigenetic Regulation by Micronutrients in Pregnancy Complications (May, 2011)
2. **Anvita Kale**: Role of Folic acid/Vitamin B₁₂, Omega-3 fatty acids in Neurotrophic Factors in Neurodevelopmental Pathology of Schizophrenia (June, 2011)
3. **Madhavi Dhobale**: Role of Antioxidant Enzymes and Neurotrophic Factor in Preterm Pregnancy (October, 2013)
4. **Deepali Sundrani**: Matrix Metalloproteinases and Angiogenesis in Pregnancy (February, 2014)
5. **Pratiksha Sable**: Role of Maternal Micronutrients on Brain Neurotrophic Factors and Cognitive Development in Wistar Rat Offspring (September, 2014)
6. **Suchitra Roy**: Role of long chain polyunsaturated fatty acids and oxidative stress in pregnancy and their association with infant growth (December, 2014)
7. **Nisha Wadhvani**: Fatty Acid Desaturases and Fatty Acid Transport Proteins in Pregnancy (May, 2015)
8. **Vandita D'Souza**: Neurotrophins and oxidative stress in preeclampsia (November, 2015)
9. **Anita Kilari** (Co-Guide): Efficacy of gokshura siddha ghrita in improving birth outcome and cognition in the offspring using a preeclampsia rat model (November, 2015)
10. **Akshaya Meher**: Effect of Maternal Nutrition during the Pre/Peri Conceptional Period on the Transcription Factors Involved in the Fatty Acid Metabolism (June, 2016)
11. **Amrita Khaire**: Multigenerational Effects of Vitamin B₁₂ Deficiency/Supplementation and Omega-3 Fatty Acid Supplementation on Metabolic Syndrome Variables in a Rat Model (October, 2016).
12. **Richa Rathod**: Multigenerational Effects of Vitamin B₁₂ Deficiency/Supplementation and Omega-3 Fatty Acid Supplementation on Brain Development in a Rat Model (March, 2017).
13. **Vinita Khot**(Co-Guide): Regulation of one-carbon cycle enzymes in preterm pregnancies (November, 2018)
14. **Harsha Chopra**: Effect of micronutrient dietary supplementation on the fatty acid profile, antioxidant enzymes and markers of oxidative stress in women living in urban slums (June, 2018)
15. **Nisha Kemse** (Co-Guide): Maternal micronutrient status, inflammatory markers and risk for non communicable diseases in the offspring in the preeclampsia rat model (June, 2018)
16. **Akriti Sahay** (DST INSPIRE-SRF): Oxidative stress in preeclampsia placenta (December, 2018)
17. **Pranita A** (Co-Guide): Micronutrient status and metabolic syndrome biomarkers in post menopausal women (August, 2018)

18. **Alka Rani** (Co-Guide): Regional Differences in Fatty Acids Metabolism in Preeclamptic Placentae (May 2019)
19. **Shruti Jawale** (Co-Guide): Effect of omega-3 fatty acid supplementation to a maternal high dairy fat diet combined with a vitamin b12 deficiency on cognitive performance and cardiometabolic variables in rat offspring (December, 2019)
20. **Kamini Dangat** (Co-Guide): Breast milk components and neurodevelopmental risk in offspring born to women with preeclampsia (July, 2020)
21. **Anindita Nandi** (UGC - JRF) Association of vitamin D and fatty acid metabolism in preeclampsia (February, 2021)
22. **Vaishali Kasture** (DST INSPIRE JRF): Association of one carbon metabolites with respective to their methylation potential in women with preeclampsia and normotensive women (March, 2022).
23. **Juhi Nema** (CSIR JRF/SRF): Maternal Vitamin D and its association with angiogenesis in preeclampsia (February 2023)
24. **Kinjal Dave** (CSIR JRF): Influence of maternal one carbon metabolites on placental epigenetic patterns (**July 2023**)
25. **Anjali Jadhav** (ICMR SRF): Maternal Fatty Acids, Oxidative Stress and Neurotrophins in Gestational Diabetes Mellitus (2024)
26. **Aditi Godhamgaonkar**: Placental telomere attrition in women with preeclampsia (Viva 22nd May 2024)

Students Currently Registered:

1. **Shweta Madiwale**: Exploring the role of angiogenic factors and inflammation in determining child growth in Gestational Diabetes Mellitus (2021)
2. **Sunaina Chhetri**- Exploring the role of excess maternal vitamin B12 supplementation on cardiometabolic risk and cognitive function in the offspring, (2023)
3. **Aishwarya Kapre**- Impact of Assisted Reproductive Technology (ART) on Placental Development and Birth Outcome; Provisional Registration: 1 September, (2023)
4. **Bhargavi Patel**- Role of Fatty Acids and Neurotrophins in Influencing Cognitive Performance in Children born to Mothers with Preeclampsia. (2023)
5. **Vrushali Kadam**- Fatty acid status in pregnancy and it's association with cardiometabolic risk variables in children, (2023)
6. **Nikita Joshi**- Placental fatty acid metabolites, oxidation and transport in Gestational Diabetes Mellitus (2023)

Patents Published: 2

1. Title: Fatty acids and $\Delta 6$ desaturase index threshold as indicators of preeclampsia and method of detection
Application number: 202221071133
Date of Publication: 03/05/2024
2. Title: Prediction model for early onset of preeclampsia
Application number: 202321036855
Date of Publication: 03/05/2024

PhD Referee (Evaluated thesis for the following Institutes)

1. Pune University
2. CSIR-NCL
3. Osmania University
4. All India Institute of Medical Sciences
5. CFTRI, Mysore
6. PGIMER, Chandigarh

Memberships:

- Fellow of the Society of Applied Biotechnologists
- Member of the Board of The India Chapter of Gestosis, The Indian Society of Preeclampsia
- Life member of the International Society for Developmental Origins of Health and Disease
- Life member of Nutrition Society of India, India
- Life member of Society for the natal effects on health in adults, India

Certificates Obtained

- Rashtra Bhasha Balbodhini- 1974
- Rashtra Bhasha First – 1975
- Rashtra Bhasha Second – 1976
- Certificate in safety aspects of Ionising Radiations- Bhabha Atomic Research Centre, Mumbai- 1988
- Certificate in MS Office & Foxpro Programming-Academy of Computer Education, Pune- 1997
- Advanced Certificate Course in Instrumental Chemical Analysis -S. P. College, Pune-1997

References:

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2. Dr Harshpal Sachdev, Sitaram Bhartia Institute of Science and Research, New Delhi, India.