

# **List of Publications and Presentations**

## ***List of Publications***

1. Rathwa N, **Parmar N**, Palit SP, Patel R, Bhaskaran RS, Ramachandran AV, Begum R. Calorie restriction potentiates the therapeutic potential of GABA in managing type 2 diabetes in a mouse model. *Life Sciences*. 2022;295:120382. (IF:6.78)
2. Patel R, **Parmar N**, Palit SP, Rathwa N, Begum R. A novel combination of sitagliptin and melatonin ameliorates T2D manifestations: studies on experimental diabetic models. *Journal of Endocrinological Investigation*. 2023;1-6. (IF:5.46)
3. Palit SP, Patel R, **Parmar N**, Rathwa N, Dalvi N, Ramachandran AV, Begum R. Repurposing Pitavastatin and L-Glutamine: Replenishing  $\beta$ -Cells in Hyperlipidemic Type 2 Diabetes Mouse Model. *Life*. 2023;13(4):929. (IF:3.25)
4. Patel R, **Parmar N**, Rathwa N, Palit SP, Li Y, Garcia-Ocaña A, Begum R. A novel therapeutic combination of sitagliptin and melatonin regenerates pancreatic  $\beta$ -cells in mouse and human islets. *Biochimica et Biophysica Acta (BBA)-Molecular Cell Research*. 2022;1869(8):119263. (IF:5.01)
5. Patel R, **Parmar N**, Palit SP, Rathwa N, Ramachandran AV, Begum R. Diabetes mellitus and melatonin: Where are we?. *Biochimie*. 2022;202;2-14. (IF:4.372)
6. Rathwa N, Patel R, Palit SP, **Parmar N**, Rana S, Ansari MI, Ramachandran AV, Begum R.  $\beta$ -cell replenishment: Possible curative approaches for diabetes mellitus. *Nutrition, Metabolism and Cardiovascular Diseases*. 2020;30(11):1870-81. (IF:4.66)
7. Rathwa N, **Parmar N**, Palit SP, Patel R, Ramachandran AV, Begum R. Intron specific polymorphic site of vaspin gene along with vaspin circulatory levels can influence pathophysiology of type 2 diabetes. *Life sciences*. 2020;243:117285. (IF:6.78)

## ***Manuscript under communication***

1. **Parmar N**, Rathwa N, Patel R, Sayantani Pramanik Palit, Patel N, Shetty S, Ramachandran AV, Begum R. Exon specific polymorphic site of *LEPR* gene along with Leptin and its soluble receptor circulatory levels: The potential risk factors for Type 2 diabetes.
2. **Parmar N**, Patel R, Rathwa N, Ramachandran AV, Begum R. Melatonin and GABA monotherapies are as efficacious as combination therapy in the management of T1D and T2D: In-vivo studies on experimental diabetic models.
3. **Parmar N**, Patel R, Vaishnav J, Dwivedi M, Rathwa N, Ramachandran AV, Begum R. Gimmicks of  $\gamma$ -Aminobutyric acid (GABA) in diabetes mellitus treatment.

## ***List of Oral/Poster Presentations***

1. **Parmar N**, Patel R, Pramanik S, Rathwa N, Shetty S, Patel N, Ramachandran AV, Begum R. "Evaluation of genetic variants of LEPTIN and LEPTIN RECEPTOR as risk factors for T2D in Gujarat population" at 9<sup>th</sup> International Conference on 'Nextgen genomics, biology, bioinformatics and technologies (NGBT) held at Mumbai, India on 30<sup>th</sup> September -2<sup>nd</sup> October, 2019 *\*(Received best poster/oral presentation award)*.
2. Patel R, Palit SP, Rathwa N, **Parmar N**, Dhimmar H, Pancholi DA, Ramachandran AV, Begum R. "Melatonin and DPP-IV inhibitor: A novel combinatorial approach for  $\beta$ -cells regeneration" at 9<sup>th</sup> International Conference on 'Nextgen genomics, biology, bioinformatics and technologies (NGBT) held at Mumbai, India on 30<sup>th</sup> September -2<sup>nd</sup> October, 2019.
3. Pramanik S, Patel R, Rathwa N, **Parmar N**, Dalvi N, Ramachandran AV, Begum R. "L-glutamine and Pitavastatin: resuscitating the dying  $\beta$ -cells" at 9<sup>th</sup> International Conference on 'Nextgen genomics, biology, bioinformatics and technologies (NGBT) held at Mumbai, India on 30<sup>th</sup> September -2<sup>nd</sup> October, 2019.
4. Rathwa N, Patel R, Palit SP, **Parmar N**, Ramachandran AV, Begum R. GABA in combination with CR as possible therapeutic approach for ameliorating insulin resistance and favoring  $\beta$ -cell regeneration in Type 2 Diabetes. Poster presentation delivered at NextGen Genomics, Biology, Biochemistry and Technologies (NGBT) Conference (Sep 30<sup>th</sup> to 2<sup>nd</sup> Oct 2019) at Taj Lands End, Mumbai India.
5. Rathwa NN, Palit SP, Patel R, **Parmar NR**, Ramachandran AV, Begum R. "143-LB: Calorie Restriction in Combination with GABA Ameliorates Type 2 Diabetes" at American Diabetes Association at Moscone Centre, San Francisco, California, USA from 7<sup>th</sup>-11<sup>th</sup> June, 2019.
6. Patel R, Pramanik S, Rathwa NN, **Parmar NR**, Dhimmar H, Pancholi DA, Ramachandran AV, Begum R. "112-LB: Melatonin And DPP-IV Inhibitor: A Novel Combinatorial Approach For  $\beta$ -Cell Regeneration" at American Diabetes Association at Moscone Centre, San Francisco, California, USA from 7<sup>th</sup>-11<sup>th</sup> June, 2019.
7. Rathwa N, **Parmar N**, Pramanik S, Patel R, Dhimmar H, Ramachandran AV, Begum R. "Genetic Variants of Omentin-1 and Vaspin: Association with Type 2 Diabetes Susceptibility" at International Conference on Reproduction, Endocrinology and Development, School of Liberal Studies and Education, Navrachana University, Vadodara-391410, Gujarat, India from 19<sup>th</sup>-21<sup>st</sup> January, 2019.
8. Rathwa N, Patel R, Pramanik S, **Parmar N**, Ansarullah, Bhaskaran RS, Ramachandran AV, Begum R. "Therapeutic potential of  $\gamma$ -aminobutyric acid and calorie restriction in type 2 diabetic mouse model" at International Conference on Reproduction, Endocrinology and Development, School of Liberal Studies and Education, Navrachana University, Vadodara-391410, Gujarat, India from 19<sup>th</sup>-21<sup>st</sup> January, 2019.
9. Patel R, Rathwa N, Pramanik S, **Parmar N**, Dhimmar H, Ansarullah, Vasu V, Ramachandran AV, Begum R. " $\beta$ -cell regenerative potential of melatonin and DPP-IV inhibitor in amelioration of T1D" at International Conference on Reproduction, Endocrinology and Development, School of Liberal Studies and Education, Navrachana University, Vadodara-391410, Gujarat, India from 19<sup>th</sup>-21<sup>st</sup> January, 2019.

10. Patel R, Rathwa N, Pramanik S, **Parmar N**, Ansarullah, Ramachandran AV, Begum R. “Replenishing  $\beta$ -cells with Melatonin & DPP-IV inhibitor: An *in-vivo* study” at International Conference on ‘Proteins, miRNA and Exosomes in Health and Diseases’ held at The M. S. University of Baroda, Vadodara, Gujarat, India from 11<sup>th</sup> - 13<sup>th</sup> December, 2018.
11. Rathwa N, **Parmar N**, Pramanik S, Patel R, Ramachandran AV, Begum R. “Association of Vasp levels and its Genetic Variants with Type 2 Diabetes Susceptibility” at International Conference on ‘Proteins, miRNA and Exosomes In Health and Diseases’ held at The M. S. University of Baroda, Vadodara, Gujarat, India on 11<sup>th</sup> - 13<sup>th</sup> December, 2018. (*Selected for oral presentation*)
12. Patel R, Rathwa N, Pramanik S, **Parmar N**, Dhimm H, Ansarullah, Ramachandran AV, Begum R. “Assessment of therapeutic potential of melatonin and DPP-IV inhibitor on  $\beta$ -cell regeneration in diabetic mouse model” at International Conference on Reproductive Physiology and Comparative Endocrinology (ICRPCE) and the 36th annual meeting of the Society for Reproductive Biology and Comparative Endocrinology (SRBCE), Birla Institute of Technology and Science Pilani, KK Birla Goa Campus 403726, India from 20<sup>th</sup>-22<sup>th</sup> January, 2018.
13. Rathwa N, Pramanik S, Patel R, Dhimm H, **Parmar N**, Bhati H, Ramachandran AV, Begum R. “Genetic Variants of Omentin-1 and Vasp and Their Plasma Levels: Association with Obesity and Dyslipidemia Related to Type 2 Diabetes” at International Conference on Reproductive Physiology and Comparative Endocrinology (ICRPCE) and the 36th annual meeting of the Society for Reproductive Biology and Comparative Endocrinology (SRBCE), Birla Institute of Technology and Science Pilani, KK Birla Goa Campus 403726, India from 20<sup>th</sup>-22<sup>th</sup> January, 2018.
14. Patel R, Rathwa N, Pramanik S, **Parmar N**, Dhimm H, Ansarullah, Ramachandran AV, Begum R. “Assessment of therapeutic potential of melatonin and DPP-IV inhibitor on  $\beta$ -cell regeneration in diabetic mouse model” at International Conference on Reproductive Physiology and Comparative Endocrinology (ICRPCE) and the 36th annual meeting of the Society for Reproductive Biology and Comparative Endocrinology (SRBCE), Birla Institute of Technology and Science Pilani, KK Birla Goa Campus 403726, India from 20<sup>th</sup>-22<sup>th</sup> January, 2018.