

**RESEARCH PUBLICATIONS FROM Ph.D. DISSERTATION**

- (1) Tripathi, A., Choubey, P.K., Sharma, P., Seth, A., Saraf, P., Shrivastava, S.K. Design, Synthesis, and Biological Evaluation of Ferulic Acid Based 1,3,4-Oxadiazole Hybrids as Multifunctional Therapeutics for the Treatment of Alzheimer's Disease. *Bioorganic Chemistry* In Press (2019) 103506 <https://doi.org/10.1016/j.bioorg.2019.103506>. [Impact Factor: 3.926].
- (2) Tripathi, A., Choubey, P.K., Sharma, P., Seth, A., Tripathi, P.N., Tripathi, M.K., Prajapati, S.K., Krishnamurthy, S., Shrivastava, S.K. Design and development of molecular hybrids of 2-pyridylpiperazine and 5-phenyl-1,3,4-oxadiazoles as potential multifunctional agents to treat Alzheimer's disease. *European Journal of Medicinal Chemistry* 183, 111707 (2019). [Impact Factor: 4.833].
- (3) Tripathi, A., Choubey, P.K., Seth, A., Sharma, P., Tripathi, M.K., Shrivastava, S.K. Design and Development of Multifunctional Hybrids of Ferulic Acid and 1,3,4-Oxadiazoles for the Treatment of Alzheimer's Disease. *Current Trends in Biotechnology and Pharmacy* 14, 81-96 (2020)

**OTHER PUBLICATIONS**

- (1) Sharma, P., Tripathi, A., Tripathi, P.N., Singh, S.S., Singh, S.P., Shrivastava, S.K. Novel Molecular Hybrids of *N*-Benzylpiperidine and 1,3,4-Oxadiazole as Multitargeted Therapeutics to Treat Alzheimer's Disease. *ACS Chemical Neuroscience* 10, 4361-4384 (2019). [Impact Factor: 3.861].
- (2) Sharma, P., Tripathi, A., Tripathi, P.N., Prajapati, S.K., Seth A., Tripathi, M.K., Srivastava, P., Tiwari, V., Krishnamurthy, S., Shrivastava, S.K. Design and development of multitarget-directed *N*-Benzylpiperidine analogs as potential candidates for the treatment of Alzheimer's disease. *European Journal of Medicinal Chemistry* 167, 510-524 (2019). [Impact Factor: 4.833].
- (3) Mishra, P., Sharma, P., Tripathi, P.N., Gupta, S.K., Srivastava, P., Seth, A., Seth, A., Tripathi, A., Krishnamurthy, S., Shrivastava, S.K. Design and Development of 1,3,4-Oxadiazole Derivatives as Potential Inhibitors of Acetylcholinesterase to Ameliorate Scopolamine-Induced Cognitive Dysfunctions. *Bioorganic Chemistry* 89, 103025 (2019). [Impact Factor: 3.926].
- (4) Tripathi, P.N., Srivastava, P., Sharma, P., Tripathi, M.K., Tripathi, A., Seth, A., Rai, S.N., Singh, S.P., Shrivastava, S.K. Biphenyl-3-oxo-1,2,4-triazine linked piperazine derivatives as potential cholinesterase inhibitors with anti-oxidant property to improve the learning and memory. *Bioorganic Chemistry* 85, 82-96 (2019). [Impact Factor: 3.926].
- (5) Shrivastava, S.K., Sinha, S.K., Srivastava, P., Tripathi, P.N., Sharma, P., Tripathi, M.K., Tripathi, A., Choubey, P.K., Waiker, D., Aggarwal, L.M., Dixit, M.,

- Kheruka, S.C., Gambhir, S., Shankar, S. & Srivastava, R.K. Design and development of novel p-aminobenzoic acid derivatives as potential cholinesterase inhibitors for the treatment of Alzheimer's disease. *Bioorganic Chemistry* 82, 211-223 (2018). [Impact Factor: 3.926].
- (6) Shrivastava, S.K., Tripathi, P., Srivastava, P., Sharma, P., Tripathi, A., Seth, A., Tripathi, M.K. Synthesis, evaluation and docking studies of some 4-thiazolone derivatives as effective lipoxygenase inhibitors. *Chemical Papers* 72, 2769-2783 (2018). [Impact Factor: 1.246].
- (7) Seth, A., Sharma, P., Tripathi, A., Choubey, P., Srivastava, P., Tripathi, P. & Shrivastava, S. Design, synthesis, evaluation and computational studies of nipecotic acid-acetonaphthone hybrids as potential antiepileptic agents. *Medicinal Chemistry* 14, 409-426 (2018). [Impact Factor: 2.530].
- (8) Seth, A., Sharma, P., Tripathi, A., Choubey, P.K., Srivastava, P., Tripathi, P.N. & Shrivastava, S.K. Design, synthesis, evaluation and molecular modeling studies of some novel N-substituted piperidine-3-carboxylic acid derivatives as potential anticonvulsants. *Medicinal Chemistry Research* 27, 1206-1225 (2018). [Impact Factor: 1.720].

#### PROVISIONAL PATENT APPLICATIONS FROM Ph.D. DISSERTATION

- (1) Tripathi, A., Sharma, P., Choubey, P.K., Shrivastava, S.K. A novel compound for treating Alzheimer's disease and a method of preparation thereof. **Indian Patent** 201911034300 dated 26.08.2019- Filed.
- (2) Tripathi, A., Sharma, P., Choubey, P.K., Shrivastava, S.K. Synthesis of 2-(4-bromophenyl)-5-(4-(pyridin-2-yl)Piperazin-1-yl)-1,3,4-oxadiazole for treating Alzheimer's disease and method of preparation thereof. **Indian Patent** 201911034931 dated 29.08.2019- Filed.

#### OTHER PROVISIONAL PATENT APPLICATIONS

- (1) Sharma, P., Tripathi, A., Tripathi P.N., Avhad, A., Shrivastava, S.K. Synthesis of N-benzylpiperidine and 5-(2,4-dichlorophenyl)-1,3,4-oxadiazole hybrid with multifunctional activities against Alzheimer's Disease. **Indian Patent** 201911034164 dated 24.08.2019- Filed.
- (2) Sharma, P., Tripathi, A., Tripathi P.N., Salunke, P., Shrivastava, S.K. N-(1-benzylpiperidin-4-yl)-5-(4-(trifluoromethyl) phenyl)-1,3,4-oxadiazol-2-amine as multitargeted ligand to treat Alzheimer's disease. **Indian Patent** 201911034930 dated 29.08.2019- Filed.