



# Papers from the ASTHI Program Published in 2022

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1. Chattopadhyay S, Joharapurkar A, Das, N, Khatoon S, Kushwaha S, Gurjar AA, Singh AK, Shree S, Ahmed MZ, Pal-China S, Pal S, Kumar H, Ramachandran R, Patel V, Trivedi AK, Lahiri A, Jain MR, Chattopadhyay N, Sanyal S. Estradiol overcomes adiponectin-resistance in diabetic mice by regulating skeletal muscle adiponectin receptor 1 expression. *Mol Cell Endocrinol* 540: 111525, 2022.
2. Rai, Divya, Ashish Kumar Tripathi, Anirban Sardar, Alka Raj Pandey, Shradha Sinha, Kunal Chutani, Geeta Dhaniya, Priyanka Kothari, Koneni V. Sashidhara, and Ritu Trivedi. A novel BMP2 secretagogue ameliorates glucocorticoid induced oxidative stress in osteoblasts by activating NRF2 dependent survival while promoting Wnt/β-catenin mediated osteogenesis. *Free Radic Biol Med* 190: 124-147, 2022.
3. Chopra V, Thomas J, Chauhan G, Kaushik S, Rajput S, Guha R, Chattopadhyay N, Martinez-Chapa SO, Ghosh D. Gelatin nanofibers loaded with Zinc doped hydroxyapatite for osteogenic differentiation of mesenchymal stem cells. *ACS Appl Nano Mater* 5: 2414-2428, 2022.
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9. Sardar, Anirban, Alisha Ansari, Sampa Gupta, Shradha Sinha, Shubham Pandey, Divya Rai, Mukesh Kumar, Rabi Sankar Bhatta, Ritu Trivedi, and Koneni V. Sashidhara. Design, synthesis and biological evaluation of new quinazolinone-benzopyran-indole hybrid compounds promoting osteogenesis through BMP2 upregulation *Eur J Med Chem* 244: 114813, doi: 10.1016/j.ejmech.2022.114813, 2022.
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