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Thesis

GENOME2QUNOME: Interfacing Molecules with Nanomaterials: <https://t.ly/YPhFc>

Patent

1. **W02023217787**: <https://patentscope.wipo.int/search/en/detail.jsf?docId=W02023217787>

Selected Publications

- Pritam Kumar Panda et al. Structure-based drug designing and immunoinformatics approach for SARS-CoV-2. **Science Advances (AAAS)**. 6, eabb8097(2020).
- Sahoo, S.S., Pastor, V.B., Goodings, C. et al. Clinical evolution, genetic landscape and trajectories of clonal hematopoiesis in SAMD9/ SAMD9L syndromes. **Nature Medicine** 27, 1806–1817 (2021).
- Bhardwaj V, Handler MZ, Mao J, et al. A novel professional-use synergistic peel technology to reduce visible hyperpigmentation on face: Clinical evidence and mechanistic understanding by computational biology and optical biopsy. **Experimental Dermatology**. 33:e15069, (2024)
- Bikash R. Sahoo, Pritam Kumar Panda et al. Degradation of Alzheimer's Amyloid- β by a Catalytically Inactive Insulin-Degrading Enzyme, **Journal of Molecular Biology** 433(13), (2021)
- Krombholz, C.F., Gallego-Villar, L., Sahoo, S.S. et al. Azacitidine is effective for targeting leukemia-initiating cells in juvenile myelomonocytic leukemia. **Nature Leukemia** 33, 1805–1810 (2019).
- Simnani et al. Nanocarrier vaccine therapeutics for global infectious and chronic diseases, **Materials Today**, 66, (2023)
- Rahul K. Suryawanshi et al, Putative targeting by BX795 causes decrease in protein kinase C protein levels and inhibition of HSV1 infection, **Antiviral Research**, 208; 105454 (2022)

Most recent publication

1. Bhardwaj V, Handler MZ, Mao J, et al. A novel professional-use synergistic peel technology to reduce visible hyperpigmentation on face: Clinical evidence and mechanistic understanding by computational biology and optical biopsy. **Exp Dermatol**. 2024; 33:e15069. doi:10.1111/exd.15069 (**IF=3.6**)

Publications

Biophysics | Molecular Modeling | Drug Designing

1. P. K. Panda, M. N. Arul, P. Patel, S. K. Verma, W. Luo, H.-G. Rubahn, Y. K. Mishra, M. Suar, R. Ahuja, Structure-based drug designing and immunoinformatics approach for SARS-CoV-2. *Sci. Adv.*, eabb8097 (2020).2.
2. Rahul K. Suryawanshi, Chandrashekhar D. Patil, David Wu, Pritam Kumar Panda, Sudhanshu Kumar Singh, Ipsita Voley, Rajeev Ahuja, Yogendra Kumar Mishra, Deepak Shukla, Putative targeting by BX795 causes decrease in protein kinase protein levels and inhibition of HSV1 infection, *Antiviral Research*, Volume 208, 2022, 105454, ISSN 01663542, <https://doi.org/10.1016/j.antiviral.2022.105454>.

3. Gupta, S., Panda, P.K., Luo, W. et al. Network analysis reveals that the tumor suppressor lncRNA GAS5 acts as a double-edged sword in response to DNA damage in gastric cancer. *Sci Rep* 12, 18312 (2022). <https://doi.org/10.1038/s41598-022-21492-x>
4. S. Gupta, P. K. Panda, R. F. Hashimoto, S. K. Samal, S. Mishra, S. K. Verma, Y. K. Mishra, R. Ahuja, Dynamical modeling of miR-34a, miR-449a, and miR-16 reveals numerous DDR signaling pathways regulating senescence, autophagy, and apoptosis in HeLa cells. *Sci. Rep.* 12, 1–13 (2022).
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11. B. R. Sahoo, P. K. Panda, W. Liang, W.-J. Tang, R. Ahuja, A. Ramamoorthy, Degradation of Alzheimer's amyloid- β by a catalytically inactive insulin-degrading enzyme. *J. Mol. Biol.* 433, 166993 (2021).
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Next Generation Sequencing

1. S. S. Sahoo et.al, Clinical evolution, genetic landscape and trajectories of clonal hematopoiesis in SAMD9/SAMD9L syndromes. *Nat. Med.* 27, 1806–1817 (2021).
2. C. F. Krombholz, L. Gallego-Villar, S. S. Sahoo, P. K. Panda, M. W. Wlodarski, K. Aumann, M. Hartmann, D. B. Lipka, M. Daskalakis, C. Plass, C. M. Niemeyer, M. Erlacher, C. Flotho, Azacitidine is effective for targeting leukemia-initiating cells in juvenile myelomonocytic leukemia. *Leukemia.* 33, 1805–1810 (2019).

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Clinical Informatics

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Nanoinformatics | Biophysics

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Physics (Atomic, Molecular and Condensed Matter Physics)

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Reviews

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4. MetaMap: Navigating the HI-TRON Mainz Data Portal, HI-TRON Symposium, Mainz, Germany, 2024

Sincerely,

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Attached: Curriculum Vitae