



BIYANI GIRLS B.ED. COLLEGE, JAIPUR

Publication link of Prof .Manish Biyani

cDNA display: a novel screening method for functional disulfide-rich peptides by solid-phase synthesis and stabilization of mRNA–protein fusions

<https://academic.oup.com/nar/article-abstract/37/16/e108/2409948>

Linker for constructing mRNA-puromycin-protein conjugate

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=z_EH474AAAAJ&citation_for_view=z_EH474AAAAJ:dhFuZR0502QC

Peptide aptamer-modified singlewalled carbon nanotube-based transistors for high-performance biosensors

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=z_EH474AAAAJ&citation_for_view=z_EH474AAAAJ:P5F9QuxV20EC

Hundredfold productivity of genome analysis by introduction of microtemperature-gradient gel electrophoresis

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=z_EH474AAAAJ&citation_for_view=z_EH474AAAAJ:u-x6o8ySG0sC

Solid-phase translation and RNA–protein fusion: a novel approach for folding quality control and direct immobilization of proteins using anchored mRNA

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Peptide aptamer-modified singlewalled carbon nanotube-based transistors for high-performance biosensors

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DEP-On-Go for Simultaneous Sensing of Multiple Heavy Metals Pollutants in Environmental Samples

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=z_EH474AAAAJ&citation_for_view=z_EH474AAAAJ:rO6llkc54NcC

Structural characterization of ultra-stable higher-ordered aggregates generated by novel guanine-rich DNA sequences

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Biocontrol potential of Gliocladium virens against fungal pathogens isolated from chickpea, lentil and black gram seeds

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Biocontrol potential of Gliocladium virens against fungal pathogens isolated from chickpea, lentil and black gram seeds

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=z_EH474AAAAJ&citation_for_view=z_EH474AAAAJ:YFjsv_pBGBYC

Novel DNA Aptamer for CYP24A1 Inhibition with Enhanced Antiproliferative Activity in Cancer Cells

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https://scholar.google.com/citations?view_op=view_citation&hl=en&user=z_EH474AAAAJ&citation_for_view=z_EH474AAAAJ:mvPsJ3kp5DgC

In vitro interaction of Trichoderma isolates against Aspergillus niger, Chaetomium sp. and Penicillium sp.

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=z_EH474AAAAJ&citation_for_view=z_EH474AAAAJ:RHpTSmoSYBkC

Sequence-specific and nonspecific mobilities of single-stranded oligonucleotides observed by changing the borate buffer concentration

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=z_EH474AAAAJ&citation_for_view=z_EH474AAAAJ:qjMakFHDy7sC

Palm-size and one-inch gel electrophoretic device for reliable and field-applicable analysis of recombinase polymerase

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=z_EH474AAAAJ&citation_for_view=z_EH474AAAAJ:l7t_Zn2s7bgC

Lessons Learned from Co-Design and Co-Production in a Portable Health Clinic Research Project in Jaipur District, India (2016–2018)

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=z_EH474AAAAJ&citation_for_view=z_EH474AAAAJ:uWQEDVKXjbEC

Applications of EPS in environmental bioremediations

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=z_EH474AAAAJ&start=20&pagesize=80&citation_for_view=z_EH474AAAAJ:kRWSkSYxWN8C

Instant enumeration of total viable bacterial counts for food quality assurance using ‘DEP-On-Go’ sensor

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=z_EH474AAAAJ&ncstart=20&pagesize=80&citation_for_view=z_EH474AAAAJ:nb7KW1ujOQ8C

High-speed atomic force microscopy and 3D modeling reveal the structural dynamics of ADAR1 complexes

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=z_EH474AAAAJ&ncstart=20&pagesize=80&citation_for_view=z_EH474AAAAJ:2KloaMYe4IUC

Dr Madhu Biyani Article Publications List

1. High-speed atomic force microscopy and 3D modeling reveal the structural dynamics of ADAR1 complexes.

<https://www.researchgate.net/journal/Nature-Communications-2041-1723?tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InByb2ZpbGUiLCJwYWdlIjoicHVibGljYXRpb24iLCJwcmV2aW91c1BhZ2UiOiJwcm9maWxlnIn19>.

2. A novel aptamer-antibody sandwich electrochemical sensor for detecting ADAR1 in complex biological samples

<https://www.researchgate.net/journal/Biosensors-and-Bioelectronics-X-2590-1370?tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InByb2ZpbGUiLCJwYWdlIjoicHVibGljYXRpb24iLCJwcmV2aW91c1BhZ2UiOiJwcm9maWxlnIn19>

3. Novel DNA Aptamer for CYP24A1 Inhibition with Enhanced Antiproliferative Activity in Cancer Cells

[https://www.researchgate.net/publication/360044237_Novel_DNA_Aptamer_for_CYP24A1_Inhibition_with_Enhanced_Antiproliferative_Activity_in_Cancer_Cells#:~:text=ACS%20Applied%20Materials%20%26%20Interfaces%2014\(14](https://www.researchgate.net/publication/360044237_Novel_DNA_Aptamer_for_CYP24A1_Inhibition_with_Enhanced_Antiproliferative_Activity_in_Cancer_Cells#:~:text=ACS%20Applied%20Materials%20%26%20Interfaces%2014(14)

4. Development of robust isothermal RNA amplification assay for lab-free testing of RNA viruses

<https://www.researchgate.net/journal/Scientific-Reports-2045-2322?tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InByb2ZpbGUiLCJwYWdlIjoicHVibGljYXRpb24iLCJwcmV2aW91c1BhZ2UiOiJwcm9maWxlnIn19>

5. Instant enumeration of total viable bacterial counts for food quality assurance using 'DEP-On-Go' sensor

<https://www.researchgate.net/journal/Analytical-Methods-1759-9679?tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InByb2ZpbGUiLCJwYWdlIjoicHVibGljYXRpb24iLCJwcmV2aW91c1BhZ2UiOiJwcm9maWxlnIn19>

6. sensors-17-00045

<https://www.researchgate.net/deref/https%3A%2F%2Fcreativecommons.org%2Flicenses%2Fby%2F4.0%2F?tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InByb2ZpbGUiLCJwYWdlIjoicHVibGljYXRpb24iLCJwcmV2aW91c1BhZ2UiOiJwcm9maWxlnIn19>

7. DEP-On-Go for Simultaneous Sensing of Multiple Heavy Metals Pollutants in Environmental Samples

<https://www.researchgate.net/journal/Sensors-1424-8220?tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InByb2ZpbGUiLCJwYWdlIjoicHVibGljYXRpb24iLCJwcmV2aW91c1BhZ2UiOiJwcm9maWxlnIn19>

8. Supplementary Material

https://www.researchgate.net/deref/https%3A%2F%2Fcreativecommons.org%2Flicenses%2Fby%2F4.0%2F?_tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InByb2ZpbGUiLCJwYWdlIjoicHVibGljYXRpb24iLCJwcmV2aW91c1BhZ2UiOiJwcm9maWxln19

9. PEP-on-DEP: A competitive peptide-based disposable electrochemical aptasensor for renin diagnostics

https://www.researchgate.net/journal/Biosensors-and-Bioelectronics-0956-5663?_tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InByb2ZpbGUiLCJwYWdlIjoicHVibGljYXRpb24iLCJwcmV2aW91c1BhZ2UiOiJwcm9maWxln19

10. Peptide-Modulated Activity Enhancement of Acidic Protease Cathepsin E at Neutral pH

<https://www.researchgate.net/journal/International-Journal-of-Peptides-1687->

11. Supplementary Material

https://www.researchgate.net/deref/https%3A%2F%2Fcreativecommons.org%2Flicenses%2Fby%2F4.0%2F?_tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InByb2ZpbGUiLCJwYWdlIjoicHVibGljYXRpb24iLCJwcmV2aW91c1BhZ2UiOiJwcm9maWxln19

12. Proven in vitro evolution of protease cathepsin E-inhibitors and -activators at pH 4.5 using a paired peptide method

https://www.researchgate.net/journal/Journal-of-Peptide-Science-1099-1387?_tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InByb2ZpbGUiLCJwYWdlIjoicHVibGljYXRpb24iLCJwcmV2aW91c1BhZ2UiOiJwcm9maWxln19

13. Evolutionary Molecular Engineering to Efficiently Direct in vitro Protein Synthesis

https://www.researchgate.net/publication/277004872_Evolutionary_Molecular_Engineering_to_Efficiently_Direct_in_vitro_Protein_Synthesis

14. Peptide Aptamer-Based ELISA-Like System for Detection of Cathepsin E in Tissues and Plasma

https://www.researchgate.net/journal/Journal-of-Molecular-Biomarkers-Diagnosis-2155-9929?_tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InByb2ZpbGUiLCJwYWdlIjoicHVibGljYXRpb24iLCJwcmV2aW91c1BhZ2UiOiJwcm9maWxln19

15. In Vitro Selection of Cathepsin E-Activity-Enhancing Peptide Aptamers at Neutral pH

https://www.researchgate.net/journal/International-Journal-of-Peptides-1687-9775?_tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InByb2ZpbGUiLCJwYWdlIjoicHVibGljYXRpb24iLCJwcmV2aW91c1BhZ2UiOiJwcm9maWxln19

16. Gel shift selection of translation enhancer sequences using messenger RNA display

<https://www.researchgate.net/journal/Analytical-Biochemistry-1096-0309?tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InByb2ZpbGUiLCJwYWdlIjoicHVibGljYXRpb24iLCJwcmV2aW91c1BhZ2UiOiJwcm9maWxln19>

17. 1P098 Strategy and technology for the evolution of novel proteins : Progressive Library Method(Protein:Engineering,The 48th Annual Meeting of the Biophysical Society of Japan)

https://www.researchgate.net/publication/316746432_1P098_Strategy_and_technology_for_the_evolution_of_novel_proteins_Progressive_Library_MethodProteinEngineeringThe_48th_Annual_Meeting_of_the_Biophysical_Society_of_Japan

18. 3P-077 Systematic P2P interaction analysis realized by the demonstrable concept of epitope-like protein area (epa)(The 46th Annual Meeting of the Biophysical Society of Japan)

https://www.researchgate.net/publication/316724523_3P-077_Systematic_P2P_interaction_analysis_realized_by_the_demonstrable_concept_of_epitope-like_protein_area_epaThe_46th_Annual_Meeting_of_the_Biophysical_Society_of_Japan

19. 2P140 Directed evolution of IRES for promoting cap-independent cell-free Translation system(32. Evolutionary molecular engineering,Poster Session,Abstract,Meeting Program of EABS & BSJ 2006)

https://www.researchgate.net/publication/316719499_2P140_Directed_evolution_of_IRES_for_promoting_cap-independent_cell-free_Translation_system32_Evolutionary_molecular_engineeringPoster_SessionAbstractMeeting_Program_of_EABS_BSJ_2006