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# Biology

Author(s) **Prasad, Naveen; Tarikere, Shreeharsha; Khanale, Dhanashree; Habib, Farhat and Shashidhara, L. S.**

Title A comparative genomic analysis of targets of Hox protein Ultrabithorax amongst distant insect species

Name of the Journal Scientific Reports

Volume No. 6

Date of Publication 14-Jun-2016

Name of the Publisher Nature Publishing Group

DOI [10.1038/srep27885](https://doi.org/10.1038/srep27885)

Author(s) Iyer, Priyanka; Raghavan, Rajeev; **Dahanukar, Neelesh;** Sood, Nikhil and Molur, Sanjay

Title All that is green does not conserve: green certification of aquarium fishes in India

Name of the Journal Current Science

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Page No. 2054-2056

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Name of the Publisher Indian Academy of Sciences

URL <http://www.currentscience.ac.in/Volumes/110/11/2054.pdf>

Author(s) **Kulkarni, Manasi; Nirwan, Neha;** van Aelst, Kara; Szczelkun, Mark D. and **Saikrishnan, Kayarat**

Title Structural insights into DNA sequence recognition by Type ISP restriction-modification enzymes

Name of the Journal Nucleic Acids Research

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DOI [10.1093/nar/gkw154](https://doi.org/10.1093/nar/gkw154)

# Chemistry

Author(s) **Sawant, Anupam A.; Mukherjee, Progya P.; Jangid, Rahul K.; Galande, Sanjeev and Srivatsan, Seergazhi G.**  
Title A clickable UTP analog for the posttranscriptional chemical labeling and imaging of RNA  
Name of the Journal Organic & Biomolecular Chemistry  
Volume No. 14  
Page No. 5832–5842  
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DOI [10.1039/C6OB00576D](https://doi.org/10.1039/C6OB00576D)

Author(s) **Sabale, Pramod M. and Srivatsan, Seergazhi G.**  
Title Responsive Fluorescent PNA analogue as a tool for detecting G-quadruplex motifs of oncogenes and activity of toxic ribosome-inactivating proteins  
Name of the Journal ChemBioChem  
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Name of the Publisher Wiley  
DOI [10.1002/cbic.201600192](https://doi.org/10.1002/cbic.201600192)

Author(s) **Tandon, Bharat; Yadav, Anur and Nag, Angshuman**  
Title Delocalized Electrons Mediated Magnetic Coupling in Mn-Sn Codoped In<sub>2</sub>O<sub>3</sub> Nanocrystals: Plasmonics Shows the Way  
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Author(s) **Mondal, Sayan and Puranik, Mrinalini**  
Title Sub-50 fs excited state dynamics of 6-chloroguanine upon deep ultraviolet excitation  
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Name of the Publisher Royal Society of Chemistry  
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# Physics

Author(s) **Chougale, Yashwant and Nath, Rejish**  
Title Ab initio calculation of Hubbard parameters for Rydberg-dressed atoms in a one-dimensional optical lattice  
Name of the Journal Journal of Physics B: Atomic, Molecular and Optical Physics  
Volume No. 49  
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Date of Publication 28- Jun-2016  
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Author(s) **Babar, Rohit and Kabir, Mukul**  
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Date of Publication 22- Jun-2016  
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DOI [10.1021/acs.jpcc.6b05069](http://dx.doi.org/10.1021/acs.jpcc.6b05069)

Author(s) **Chaturvedi, Smita; Shyam, Priyank; Apte, Amey; Kumar, Jitender; Bhattacharyya, Arpan; Awasthi, A. M. and Kulkarni, Sulabha**  
Title Dynamics of electron density, spin-phonon coupling, and dielectric properties of SmFeO<sub>3</sub> nanoparticles at the spin-reorientation temperature: Role of exchange striction  
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DOI [10.1103/PhysRevB.93.174117](http://dx.doi.org/10.1103/PhysRevB.93.174117)

Author(s) Khachatryan, V.; **Sharma, S.** et al.  
Title Search for pair-produced vectorlike B quarks in proton-proton collisions at root s=8 TeV  
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Author(s) Khachatryan, V.; **Sharma, S.** et al.  
Title Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in pp collisions at root s=8 TeV  
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Author(s) Khachatryan, V.; **Chauhan, S.; Dube, S.; Sharma, S.** et al.  
Title Measurement of the CP-violating weak phase  $\phi(s)$  and the decay width difference  $\Delta\Gamma(s)$  using the  $B_s(0) \rightarrow J/\psi \phi(1020)$  decay channel in pp collisions at root s=8 TeV  
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DOI [10.1016/j.physletb.2016.03.046](https://doi.org/10.1016/j.physletb.2016.03.046)

Author(s) Khachatryan, V.; **Chauhan, S.; Dube, S.; Sharma, S.** et al.  
Title Inclusive and differential measurements of the  $t(\bar{t})$  charge asymmetry in pp collisions at root s=8 TeV  
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Name of the Publisher Elsevier Science BV  
DOI [10.1016/j.physletb.2016.03.060](https://doi.org/10.1016/j.physletb.2016.03.060)

Author(s) Khachatryan, V.; **Chauhan, S.; Dube, S.; Kapoor, A.; Kothekar, K.; Sharma, S.** et al.  
Title Search for supersymmetry in pp collisions at root s=8 TeV in final states with boosted W bosons and b jets using razor variables  
Name of the Journal Physical Review D  
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Date of Publication 26-May-2016  
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DOI [10.1103/PhysRevD.93.092009](https://doi.org/10.1103/PhysRevD.93.092009)

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