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## Development

For advances in developmental biology and stem cells

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Volume 147, Issue 20  
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### Development



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RESEARCH REPORT | 19 OCTOBER 2020

## An evolutionarily conserved Lhx2-Ldb1 interaction regulates the acquisition of hippocampal cell fate and regional identity **FREE**

In collection: Neural development

Veena Kinare , Archana Iyer , Hari Padmanabhan , Geeta Godbole , Tooba Khan , Zeba Khatri, Upasana Maheshwari , Bhavana Muralidharan , Shubha Tole

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## Green Synthesis and Zeta Potential Measurement of Silver Nanoparticles

Meeta Saxena, Ayesha Shaikh

Sophia College (Autonomous), Mumbai, Maharashtra, India

### Abstract:

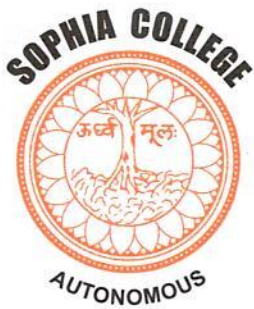
Nanotechnology has enormous potential in the fields of healthcare, right from effective drug delivering, diagnosing diseases more rapidly and sensitively, and delivering vaccines via aerosols and patches. The use of silver (Ag) nanoparticles is quite interesting both in the fields of medicine as well as in healthcare due to its various pharmacological properties. Zeta potential [ZP] can affect the pharmacokinetic properties of nano systems in the body and plays an important role in controlling the electrostatic interactions in particle dispersion. The zeta potential characterization is used to understand the nanometre size particles in the liquid.

The current study focuses on the green synthesis of metallic nanoparticles from *Ocimum tenuiflorum* (Tulsi) and *Catharanthus roseus* (Periwinkle) and comparing the zeta potential values of these nanoparticles.

The zeta potential value of silver nanoparticles from Periwinkle extract showed good stability as compared to silver nanoparticles from Tulsi extract. The surface charge density of nanoparticles could be optimized further for minimal toxicity and effective intracellular delivery of encapsulated drugs.

**Keywords:** Nanotechnology, Silver nanoparticles, Zeta potential, *Ocimum tenuiflorum* (Tulsi), *Catharanthus roseus* (Periwinkle).





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## Insights into the role of estrogens and androgens in glial tumorigenesis

Posted by | Article Type | Issue: Review Article, Vol 20, Issue 1 | Posted on

Bhavna Daswani, Yasmin Khan  
Department of Life Sciences, Sophia College (Autonomous), Mumbai, Maharashtra, India  
DOI: 10.4103/jcar.JCar\_2\_21

### ABSTRACT

Gliomas are more common in males than in females. Emerging evidence from several studies *in vitro* and *in vivo* have shown the role of estrogens and androgens in glial tumorigenesis. In recent times, studies have also shed light on the actions of estrogen receptors, alpha and beta, and androgen receptor. Here, we provide a comprehensive overview of the research hitherto on estrogens and androgens along with an emphasis on their receptors in glioma pathophysiology. Studies with conflicting results are discussed and future possibilities are put forward. A collective understanding of the studies on these steroid hormones in glioma may serve to create an amalgamated therapeutic approach; and thereby, augment the efforts in tackling this deadly disease.

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**Journal of Applied Biotechnology Reports**  
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### Optimization of Inulinase Production by a Fungal Species Isolated From Rotten Garlic Samples

Document Type : Original Article

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10.30491/JABR.2020.238953.1253

#### Abstract

**Introduction:** Inulinases are  $\beta$ -fructohydrolase enzymes that catalyze the hydrolysis of inulin. Recently, this enzyme has gained much importance mainly due to its ability to produce high-density fructose syrup using inulin as a raw material. In the current study, screening of inulinase-producing microorganisms was carried out from the rhizosphere soil of the Dahlia plant and rotten garlic samples.

**Materials and Methods:** The inulinase activity was detected with the help of 3,5-dinitrosalicylic acid (DNSA) and Seliwanoff's method, and the organism showing the highest potential was selected for further optimization studies.

**Results:** The optimum culture conditions for inulinase production, by the test fungal culture, were observed when 5%

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