

WELCOME TO



*Department of Life Sciences*

# *Life Sciences*

An Umbrella that encompasses  
**all Biological Sciences**

# Life Sciences

Genetics & Genetic Engineering

Immunology

Developmental Biology

Neurobiology

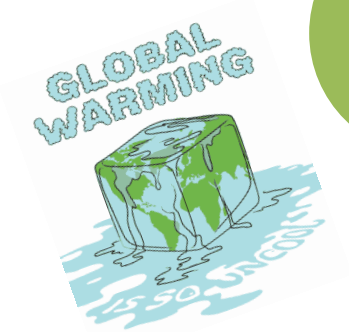
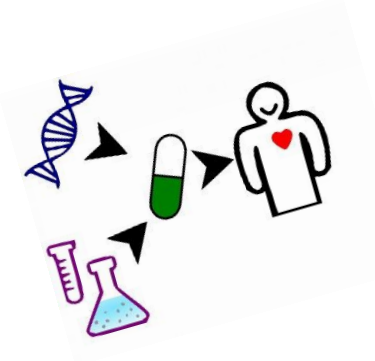
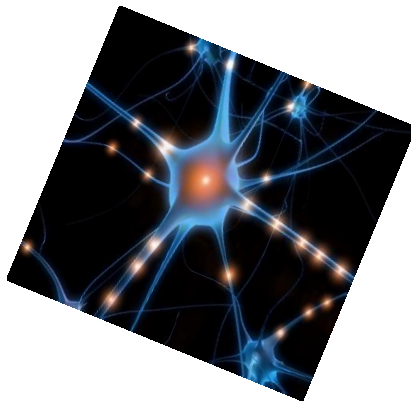
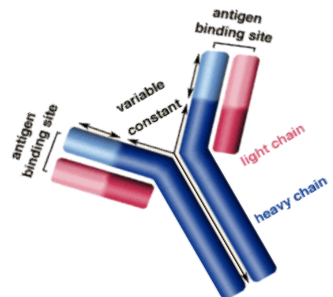
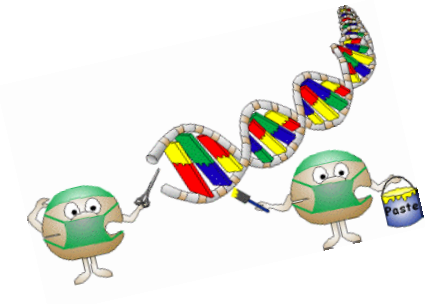
Environmental Biology

Biochemistry

Medical Microbiology

Biostatistics

Bioinformatics





# *Team Life Sciences*

# Teaching Staff



**Niloufer K. Kotwal (Head of Department)**

- ✓ With Jai Hind College since 2003
- ✓ Specialization: Microbiology

**Mrs. Yogita Walke**

- ✓ With Jai hind College since 2016
- ✓ Specialization: Biotechnology

**Dr. (Mrs.) K. Srilatha**

- ✓ With Jai Hind College since 2008
- ✓ Specialization: Botany



**Ms. Sakina Garothwala**

- ✓ With Jai Hind College since 2018
- ✓ Specialization: Life Sciences



# *Non-Teaching Staff*

**Mr. Siddhesh Raut**

✓ **Laboratory Assistant 2016**



**Mr. Roopesh Gawde**

✓ **Laboratory Attendant since 2004**

**Mr. Maharaj Singh**

✓ **Laboratory Attendant since 2019**



# *Syllabi at a glance!!!*

## *F.Y.B.Sc Life Sciences*

*Paper – I: Life sciences at molecular and cellular level*

*Paper – II: Introduction to Plant and Animal Processes*

## *S.Y.B.Sc Life Sciences*

*Paper – I: Anatomy & Physiology, Medical Microbiology*

*Paper – II: Biochemistry*

*Paper – III: Evolution, Biostatistics & Bioinformatics*

## *T.Y.B.Sc Life Sciences*

*Paper – I: Genetics & Immunology*

*Paper – II: Developmental Biology & Neurobiology*

*Paper – III: Fermentation Technology, Genetic Engineering & Biotechnology*

*Paper – IV: Environmental Science*

**\* Detailed Syllabi available on College website**

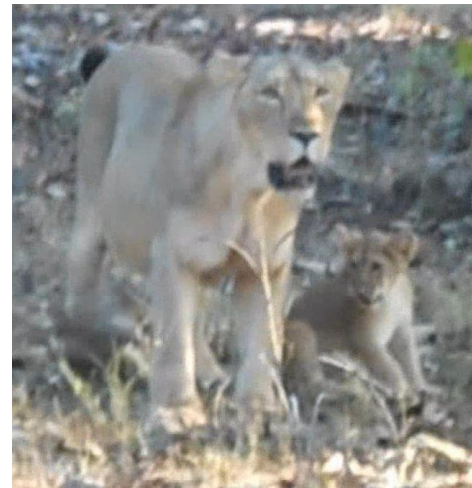


# *Activities of the Department*





*(1) Annual Excursion/  
Industrial Visits*





**S.Y. & T.Y. Life Sciences Excursion (2019-20)**



**F.Y. Life Sciences Excursion (2019-20)**

## *(2) IRIS: The Life Sciences Society*

**I : Insight**

**R : Resilience**

**I : Innovation**

**S : Success**



*Workshops and Seminars are organized under the aegis of IRIS every academic year!!!*

# IRIS Workshop 2019 – 20: Recent advances in Stem Cell Research



INSA, Delhi



IAS, Bengaluru



NASI, Allahabad

Department of Life Sciences, Jai Hind College  
presents  
*Science Academies' Education Program*  
*Short-Duration Workshop*

**Titled: *Recent advances in Stem Cells***  
***Research – Biomedical applications***

**Date** : 12<sup>th</sup> & 13<sup>th</sup> July 2019  
**Time** : 10:00am to 4:30pm  
**Venue** : Audio-Visual Room,  
4<sup>th</sup> floor, Jai Hind College

#### **Resource Persons:**

Dr. Maneesha Inamdar, JNCASR, Bengaluru  
Dr. Deepa Subramanyam, NCCS, Pune  
Dr. Loltika Mondal, IISER, Mohali  
Dr. Abhijeet Bopardikar, Ree Labs Pvt. Ltd., Mumbai  
Dr. Oleksandr Kukharchuk, Ree Labs Pvt. Ltd., Mumbai  
Mr. Pradeep Somalapur, Ree Labs Pvt. Ltd., Mumbai

**Co – Convener**  
Dr. K. Srilatha  
Dept. of Life Sciences,  
Jai Hind College

**Convener**  
Dr. L. S. Shashidhara  
Professor & Coordinator,  
Biology, IISER, Pune



# *(3) Internships*

- The Department organizes internships during Summer vacation.
- FY to SY = Internship includes working at a blood bank & pathology lab.
- SY to TY = Internship includes Stem Cell study.



# *(4) Forensic Science Certificate Course*



- The Department runs a certificate course in Forensic Sciences in collaboration with FACTS (Forensic Advice Consultancy and Training Services)

# (5) Research

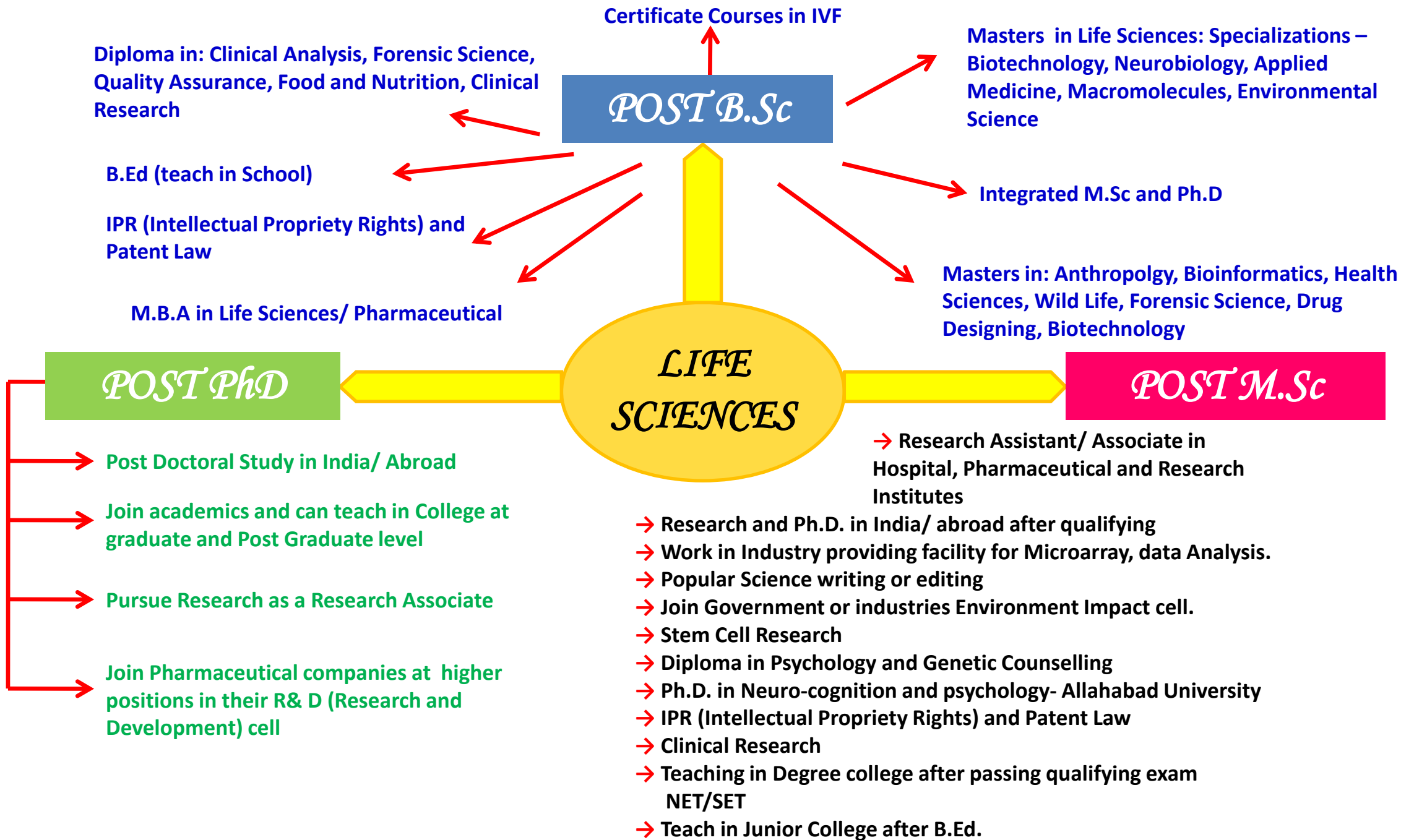
- The students and teachers of the Department are actively involved in Research and Students.
- A number of students have won prizes in various National Level Research Meets and thus brought accolades for the College and the Department.





*Avenues post  
B.Sc. Life Sciences*





# *Post B.Sc.*

## **Masters in Life Sciences (University of Mumbai):**

### ✓ Specializations:

Applied Medicine

Neurobiology

Biotechnology

Environmental Biotechnology

Aquaculture Technology

## **Masters in Biological Sciences / Biotechnology: (Integrated PhD)**

✓ JNU (Jawaharlal Nehru University) Entrance Exam: JNUEE

✓ NCBS, TIFR, etc. Entrance Exam: JGEEBILS

✓ IIT Entrance Exam: JAM

## Masters in:

- ✓ Bioinformatics
- ✓ Stem Cell & Tissue Engineering
- ✓ Environmental Sciences
- ✓ Genetic Counselling
- ✓ Forensic Science
- ✓ Clinical Research
- ✓ Food Nutrition
- ✓ Food Processing and Preservation

**Career in IVF:** MSc in Life Sciences followed by course in Embryology or Masters in IVF

**Career in:**

- ✓ IPR & Patent Law
- ✓ MBA in Hospital and Healthcare
- ✓ Post Graduate Diploma in Pharmaceutical Management
- ✓ Teaching –
  - School = BSc – B.Ed.
  - IB Schools = May not require B.Ed.
  - Junior College = MSc – B.Ed.
  - Degree College = MSc – NET/SET



*Contact us on:*

**lifescience.jaihind@gmail.com**



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