

**SCHOOL OF BIOCHEMISTRY
DEVI AHILYA UNIVERSITY, INDORE**

EXTERNAL ACADEMIC AUDIT REPORT 2017-2018

Academic audit was done by **Dr. Anita Rani**, Principal Scientist, Directorate of Soybean Research, Indore. on 13/12/2018 at School of Biochemistry. The academic details of the school are as follows

1. Curriculum - M.Sc. Biochemistry

S.No.	Parameters	Comments
1.	Course Content	Good
2.	Course Coverage	Good

2. Evaluation Process

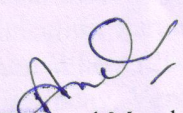
S.No.	Parameters	Comments
1.	Grade System	O.K.
2.	Transparency	O.K.
3.	Quality of Exam Papers	Questions can be more analytical.

3. Research Activities

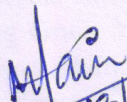
S.No.	Parameters	Comments
1.	Paper Publications	N. Good
2.	Ph.Ds	V. Good
3.	Research Projects	Good
4.	Research Seminars	Good
	(List enclosed)	

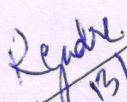
4. Infrastructure

S.No.	Parameters	Comments
1.	Basic Facilities- Instruments, such as, PCR, Elisa Reader, Ultracentrifuge, HPLC, Spectrophotometers, Plant Growth Chambers, Cooling Centrifuges, Electrophoresis Units, Hot Air Ovens, Water Baths, Double Distillation Water Unit, Electrical Balances, Cold Room etc.	Good
2.	Library- 850 Books	Good
3.	Cleanliness	clean
4.	Facility of clean drinking water	Good


 External Member
 Dr Anita Rani

(Indian Institute of
 Soybean Research)
 IQAC Coordinator


 DQAC Coordinator
 Dr Meeta Jain


 DQAC Chairperson
 Dr Rekha Gadre

13/12/2018

13/12/2018

School of Biochemistry, DAVV

List of Publication of Faculty members for the period 2017-18

1. Vinny Punjabi and Sadashiv M. Gokhale (2017) Effect of Free Radical Generating System- Adenosine Triphosphate/Ferrous Sulphate/Hydrogen Peroxide on Human Erythrocytes. *International Journal of Contemporary Research and Review*; 8 (7): (2018) 4-20192.
2. Sonal Dhamgaye, Vishal Dhamgaye and Rekha Gadre (2018) Growth retardation at different stages of bean seedlings developed from seeds exposed to synchrotron X ray beam. *Advances in Biological Chemistry*. 8, (Accepted) **Impact Factor 0.94.**
3. Chinchalkar, R. and Gadre R. (2018) Impact of essential micronutrient, Zn, on growth and chlorophyll biosynthesis in young *Zea mays* seedlings. *American J Plant Sciences*. (Accepted) **Impact Factor 1.22.**
4. Sonal Dhamgaye and Rekha Gadre (2018) Salinity stress effects being mediated via nitric oxide in common bean (*Phaseolus vulgaris*) Seedlings. *J.Bio.Innov7* (4), In Press.
5. M. Jain, S. Tiwary, and R. Gadre (2018) Modulation of δ Aminolevulinic Acid Dehydratase Activity by the Sorbitol Induced Osmotic Stress in Maize Leaf Segments. *Biochemistry (Moscow)* 83 (1) 32-36. **Impact Factor 1.537**
6. Sunita Shukla, Khageshwar Sahoo, Priyanka Sharma, Ankita Joshi and Deepak Bhatnagar (2018) Assessment of antioxidant activity of *Quercus infectoria* gall extract and its efficacy in wound healing using optical coherence tomography in Swiss albino mice. *European J of Biomedical and Pharmaceutical Sciences*. 3(3), 367-376. **SJIF Impact Factor 4.918.**
7. Fatima, A., Agrawal, A.K., Singh, B., Bhatnagar, D. Sharma, H., Kashyap, Y. and Shripathi, T. Synchrotron based Phase Contrast Tomography of Hypercholesteromic Rat Liver (2017) *J Med. Res. Health Sci*. 6, 115-125.
8. Joshi, A., Lad, H., Sharma, H. and Bhatnagar, D. (2018) Evaluation of Phytochemical composition and antioxidative, hypoglycaemic and hypolipidaemic properties of methanolic extract of *Hemidesmus indicus* roots in streptozotocin induced diabetic mice, *Clinical Phytosci*. 4, 7-15.
9. Sharma, H, Joshi, A., Lad, H. and Bhatnagar, D. (2018) Anti-oxidative, anti-inflammatory and anti-atherosclerotic effect of taurine on hypercholesterolemia induced atherosclerotic rats. *Int. J Pharm. Pharmaceu. Sci*. 10, 145-50.
10. Prakash Malviya, S.V. Sai Prasad, Meeta Jain and Divya Ambati. Canopy Temperature as Selection Parameter for improving Grain Yield under early Heat Stress conditions in Durum Wheat (2018). *Research Journal Multilogic in Science* (Accepted).
11. Pooja Yadav, Venuka Durani Goyal, Neeraj K. Gaur, Ashwani Kumar, Sadashiv M. Gokhale and Ravindra D. Makde (2018) Structure of Asp-bound peptidase E from *Salmonella enterica*: Active site at dimer interface illuminates Asp recognition. *FEBS Letters*- doi:10.1002/1873-3468.13247, Online ISSN: 1873-3468 Print ISSN: 0014-5793 **Impact factor: 2.999**

12. Sharma H, Joshi A, Lad H and **Bhatnagar D** (2018) Anti-oxidative, anti-inflammatory and anti-atherosclerotic effect of taurine on hypercholesterolemia induced atherosclerotic rats. Int. J. Pharm. Pharmaceu. Sci. 10: 145-150. ISSN 0975-1491

Ph.D.s Awarded

- Mr Antariksh Tyagi** 2017 Studies on global gene expression and adaptability of different ecotypes of Arabidopsis thaliana along altitudinal gradient Supervisor Dr S.M. Gokhale, Cosupervisor Dr Sribash Roy, NBRI, Lucknow
- Mr. Jayesh Vaishnav** 2018 Effect of salt stress on chlorophyll metabolism and Antioxidative system in maize Supervisor Dr Meeta Jain
- Ms. Ankita Joshi** 2018 Antioxidative, antidiabetic, and anti-inflammatory activity of some medicinal plants. Supervisor Dr D Bhatnagar
- Mr Venkat Are** 2018 Title Structural and functional characterization of aminopeptidase P fold proteins Supervisor Dr Rekha Gadre, Cosupervisor Dr Ravindra Makde, RRCAT, Indore

List of Projects of Faculty members for the period 2017-18

Dr. Rekha Gadre, Professor

Investigation of X-ray irradiation effects on Phaseolus vulgaris (Rajmah) under stressed conditions.

Funded by UGC-DAE DSR Indore, CSR-IC-BL-24/CRS-121-2014-15/1217

Amount 7.0 lakhs.

Dr. Meeta Jain, Reader

Proteomic and biochemical study of the enzymes of chlorophyll biosynthesis and antioxidative system in maize subjected to salt stress.

ID: MRP-MAJOR-BIOC-2013-6699 F. No. 43-39/2014 (SR)

Funded by UGC

Amount Rs. 13, 90, 000/-

Research Seminars

A Seminar on "Advances in Biochemical Research" was organised on **29th October 2018**. The invited scientists were **Dr. Damodar Gupta**, Scientist E, Department of Capacity Enhancement and Product Induction (CEPIN) Institute of Nuclear Medicine and Allied Sciences, Delhi, **Dr Ravindra Makade**, Principal Scientist, RRCAT, Indore and **Dr Sai Prasad**, Head, ICAR-IARI Regional Station, Indore.

DQAC Coordinator
Dr Meeta Jain

M Jain
13/12/2018

R Gadre
13/12/2018
DQAC Chairperson
Dr Rekha Gadre

Professor & Head
School of Biochemistry
Devi Ahilya University
Khandwa Road, Indore (M.P.)