

JASMN Laboratory All training modules

MODULE 1

GENERAL MICROBIOLOGY

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|--|---|-----------|------------|
| 1. STERILIZATION OF MATERIALS | } | 3 days | |
| 2. PREPARATION OF MEDIA | | Rs.2500/- | |
| 3. DETERMINATION OF TOTAL VIABLE COUNT | } | 2 days | |
| 4. BACTERIAL GROWTH- ISOLATION AND PLATING TECHNIQUES | | 1500/- | |
| 5. GROWTH KINETICS STUDIES | | 2 days | Rs. 1500/- |
| 6. BACTERIAL IDENTIFICATION – BIOCHEMICAL TESTS | | 3 days | Rs.2500/- |
| 7. DEMONSTRATION OF VARIOUS ENZYME ACTIVITIES | | 3 days, | Rs.2500/- |
| 8. ANTIBIOTIC SUSCESPTIBILITY TESTING –Disc diffusion test | } | 3 days | |
| 9. MIC /MBC DETERMINATION | | Rs.3000/- | |
| 10. ESBL, METALO PROTEASES DETECTION | | 3 days | Rs. 2500/- |
| 11. PLASMID ISOLATION | } | | |
| 12. PLASMID DEMONSTRATION – GEL ELECTROPHORESIS | | | |
- Over all – 3-4 weeks, Rs.15,000/-

MODULE 2

CLINICAL BACTERIOLOGY

1. Sterilization techniques
2. Preparation of media
3. Staining techniques
4. Antibiotic susceptibility testing – disc
5. MIC/MBC determination
6. ESBL DETECTION
7. PROCESSING OF URINE AND REPORTING
8. PROCESSING OF SPUTUM AND REPORTING
9. PROCESSING OF VAGINAL SWAB AND REPORTING
10. PROCESSING OF THROAT SWAB AND REPORTING
11. PROCESSING OF WOUND SWAB /PUS AND REPORTING
12. BLOOD CULTURE TECHNIQUES
13. PROCESSING OF BODY FLUIDS AND REPORTING
14. PROCESSING OF STOOL SAMPLE AND REPORTING

Techniques: 1-14: 8 weeks –Rs.20,000/-

Techniques: 1-8 :4 weeks - Rs.10000/- Techniques: 5-8 - 10 days -5000/-

MODULE 3

MOLECULAR BIOLOGY TECHNIQUES

1. STERILIZATION OF MATERIALS
2. PREPARATION OF MEDIA AND ISOLATION TECHNIQUES
3. VIABLE COUNT
4. GROWTH KINETICS
5. ISOLATION OF PLASMIDS
6. GELELECTROPHORESIS TECHNIQUES
7. DNA ISOLATION AND DEMONSTRATION
8. PCR TECHNIQUES

Techniques: 1-8, 4 weeks-Rs.15000/- Techniques: 5-8, 10 days –Rs.10000/-

Techniques: 7-8, 6 days- Rs.6000/-

MODULE 4

IMMUNOLOGICAL TECHNIQUES - BASICS

1. Agglutination tests a. Haemagglutination test – blood grouping
b. Bacterial slide agglutination test
2. Widal test a. Principle, test and interpretation
3. Brucella agglutination test a. Principle, test and interpretation
4. VDRL/RPR test a. Principle, test and interpretation
5. ELISA test a. Principle, test and interpretation

Techniques : 1-5, 10 days Rs.5000/-

MODULE 5

Mini Project for Biotechnology PLACKETT-BURMAN DESIGN AND TESTING 10-15 DAYS

MODULE 6

FOOD MICROBIOLOGY

1. TOTAL PLATE COUNT (BACTERIA)
2. COUNTS OF YEAST AND MOLD
3. ENUMERATION, ISOLATION AND IDENTIFICATION OF E.coli in food
4. 4. ENUMERATION, ISOLATION AND IDENTIFICATION OF SALMONELLA in food
5. ENUMERATION, ISOLATION AND IDENTIFICATION OF SHIGELLA in food
6. ENUMERATION, ISOLATION AND IDENTIFICATION OF VIBRIO in food

Days 15-21 days, Fee- Rs. 12,000/-

MODULE 8

Routine clinical biochemistry training

Fee 7500/- 7 days

The fee for training varies with different modules and components selected

For details contact: 9444117141

Training is available throughout the year

Refer: <http://www.jasmnfoundation.com>

<http://www.tsraj.com>