

# Molecular Care

*Trusted for  
Quality, Reliability, Excellence  
in Molecular Research and Diagnostics*

**Dept. of Biochemistry  
University of Agriculture, Faisalabad**

# Mission and Vision

- **Mission:** *To serve the community by providing state of the art facilities in Molecular Biochemistry to researchers, students and common man.*
- **Vision:** *Excellence in research, diagnostics and trainings.*

# Services offered

## Five components:

- Human Molecular Diagnostics
- Animal Molecular Diagnostics
- Molecular Research Solutions
- Bioinformatics
- Trainings

# Services offered.....I

## *Human Molecular Diagnostics*

S. No.	Test
1	Cancer biomarkers (ELISA/PCR)
2	Cardiac biomarkers (ELISA/PCR)
3	PCR based diagnosis of hepatitis
4	PCR based diagnosis of interleukin 28
5-87	Special biochemical tests such as hormones, vitamin D3  <b>A total of 83 ELISA based Special Biochemistry tests</b>

[Special Biochemistry Tests](#)

# Services offered.....II

## *Animal Molecular Diagnostics*

Foot and Mouth Disease Virus (FMDV)

Peste Des Petits Ruminants Virus (PPRV)

Paternity analysis of dogs/cattle (per sample)

Pasteurella multocida (coccobacillus) HS

Canine Distemper (CD)

Feline Infectious peritonitis (FIP)

Toxoplasma gondii

Rabies

Babesia

Theileriosis

Contagious caprine pleuropneumonia (CCPP)

Brucellosis

Mastitis

Enterotoxaemia

Anaplasmosis

Bird sexing

Psittacosis

Newcastle disease virus (NDV) (pigeons)

# Services offered.....III

## *Molecular Research Solutions*

### Analysis

DNA isolation from plants/blood/bacteria

PCR (reaction)

Agarose gel electrophoresis/sample

Agarose gel electrophoresis/10 samples

RNA isolation

cDNA synthesis

ddPCR (reaction)

SDS/Native PAGE with coomassie/silver stain

Urea PAGE with Silver

# Services offered.....IV

## *Bioinformatics*

### Analysis/service

Custom build software/database development  
(bioinformatics)

Genomic/Proteome data analysis  
(bioinformatics)

Specific PCR primer designing

Phylogenetic analysis

### Docking services

Up to 20 carbons

20Cs plus

Blind Docking of 1000 Molecules

Target specific docking

Customized 3 D Model generation + optimization

# Services offered.....V- *Trainings*

## Training

PCR

Gene Cloning

Bioinformatics basics

Bioinformatics Advanced

Antimicrobial screening



# Contacts:

- **Human Diagnostics:**

Email: [humandiagnositics@molcare.org](mailto:humandiagnositics@molcare.org)

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- **Animal Diagnostics:**

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- **Molecular Research Solutions:**

Email: [researchsolutions@molcare.org](mailto:researchsolutions@molcare.org)

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- **Bioinformatics:**

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- **Trainings:**

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# Facilities in lab of Dr M Shahid

1.	<b>Biochemical parameter</b> <b>Like enzymes CAT, POD, SOD, TSS, Sugars etc</b>	Rs. 200/- per sample for university student Rs. 250/-per sample for other institutes.
2.	<b>Antimicrobial activities</b>	Rs. 500/- per sample against at least two bacterial and two fungal strains. For MIC Rs.200/- per sample will be additionally charges.
3	<b>Biofilm inhibition and hydrolysis</b>	Rs. 300/- per sample against one microbial biofilm. For light microscopy Rs. 200/- per sample will be charged.
4.	<b>Different Antioxidant Assays</b>	Rs. 200/- per sample per assay method.
5.	<b>Toxicological assays</b> <b>i. Hemolytic assay</b> <b>ii. Brine shrimp assay</b> <b>iii. Allium cepa test</b> <b>iv. DNA damage</b> <b>v. Ames Assays</b>	Rs. 200/- per sample. Rs. 500/- per sample. Rs. 1000/- per sample. Rs. 2000/- per sample for at least 5 sample Rs. 2000/- per sample for at least 5 sample
6	<b>Antithrombolytic activity</b>	Rs. 200/- per sample
7	<b>Microbial load</b>	Rs. 1000/- per sample.
8	<b>Microplate reading</b>	Rs. 100/- per plate.