

shall bear witness against their own souls that they were unbelievers.

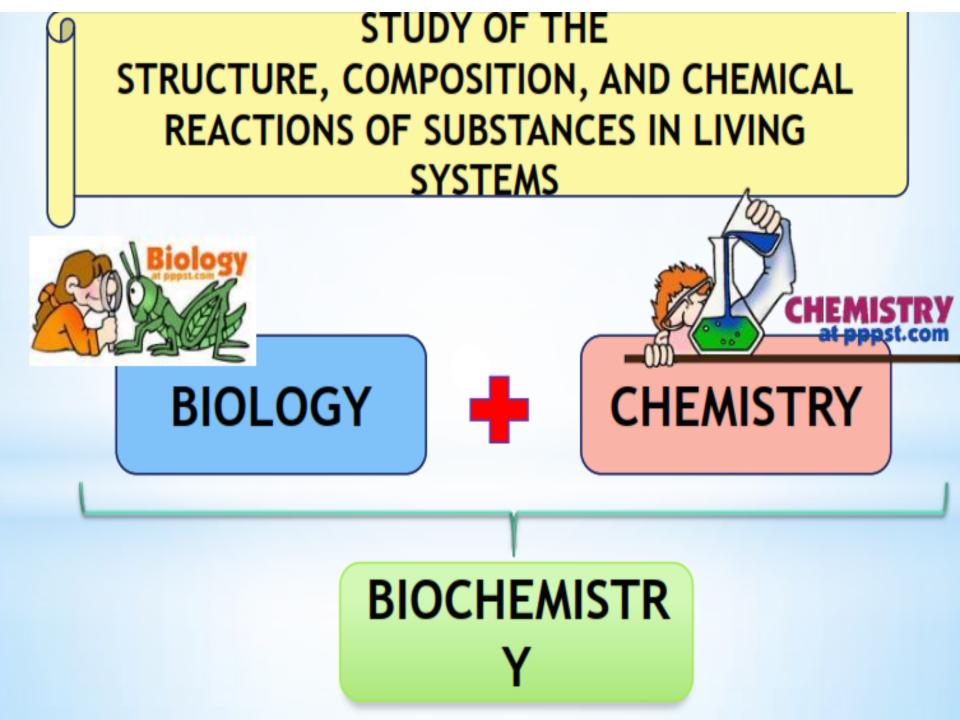
BIOCHEMISTRY

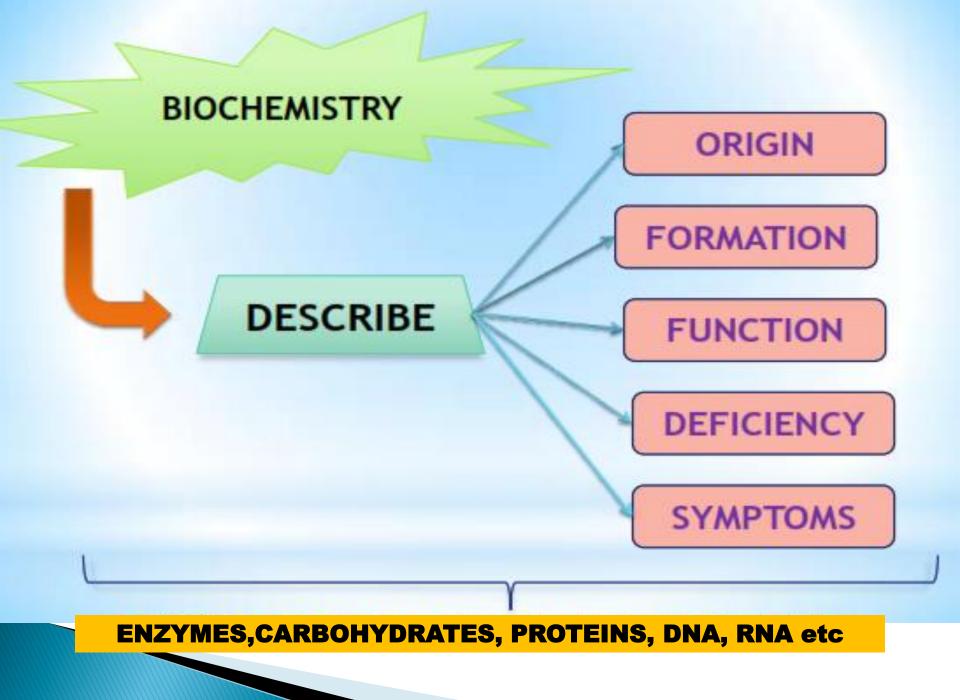
Role of Biochemistry in Medicine

Dr. Kalsoom Tariq

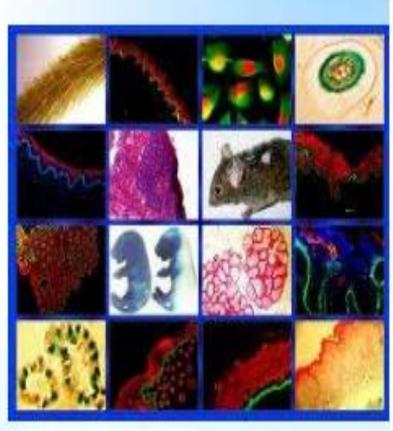
BIOCHEMISTRY

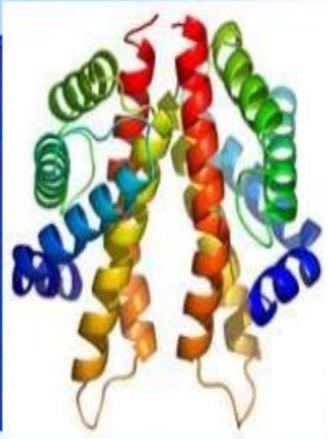
- It is a science concerned with the chemical constituents of living cells and the reactions and processes they under go.
- •As long as these reactions take place in organized form, we remain healthy and alive, as disorganization occur in these reactions we fall ill or even die.





IT TRIES TO EXPLAIN LIFE IN TERMS OF BIO CHEMICAL REACTIONS

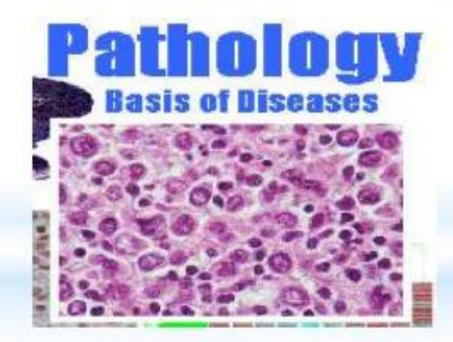




the biochemistry helps us understand the biochemical changes and related physiological alteration in the body



The pathology of any disease is studied through biochemical changes



Branches of biochemistry

- Human biochemistry
- Clinical biochemistry
- Plant biochemistry
- Nutrition biochemistry
- Industrial biochemistry

in the present scenario many people rely in taking multivitamin and minerals for better health

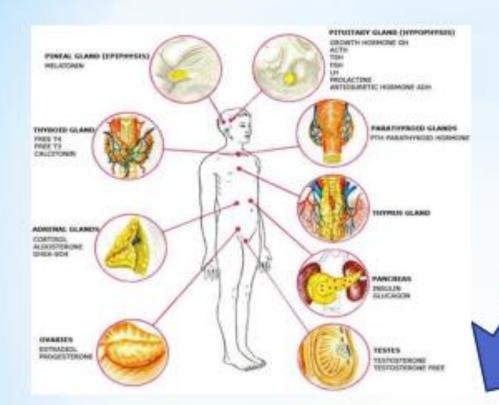






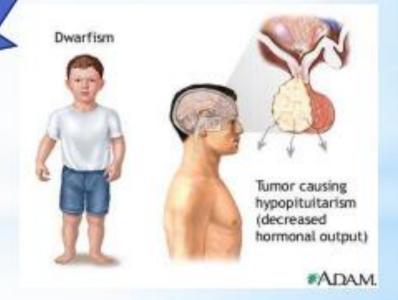
the function and role of the vitamins is described only by biochemistry





there are many disorders due to hormonal imbalance in specially women and children

the formation of hormones in the normal body function is taught in biochemistry by which the physician can understand the concerned problem during treatment



IMPORTANCE OF BIOCHEMISTRY IN NUTRITION

For a maintenance of health WATER IS NECESSARY Optimum intake of many chemicals like vitamins, minerals, es sential fatty acids

IMPORTANCE OF BIOCHEMISTRY IN PHARMACY



Gives an idea of its constitution

Its change of degradation with varying temperature

how drugs are metabolized by biochemical reactions in presence of enzymes

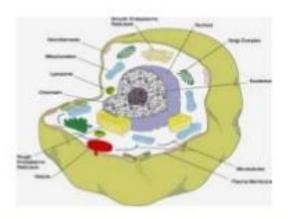
IMPORTANCE OF BIOCHEMISTRY IN MOLECULAR BIOLOGY

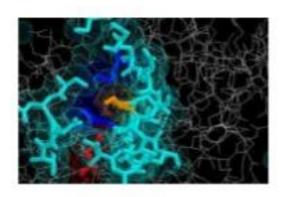
It is important to understand biochemistry in order to understand drugs function

example



many drugs exert their influence by altering cell chemistry, or biochemistry





IMPORTANCE IN TREATMENT OF CANCER



many diseases, such as cancer, can be described in terms of biochemical changes in the cell

that lead to changes in gene expression and cell physiology



if you can determine the biochemical changes that led to some disease state

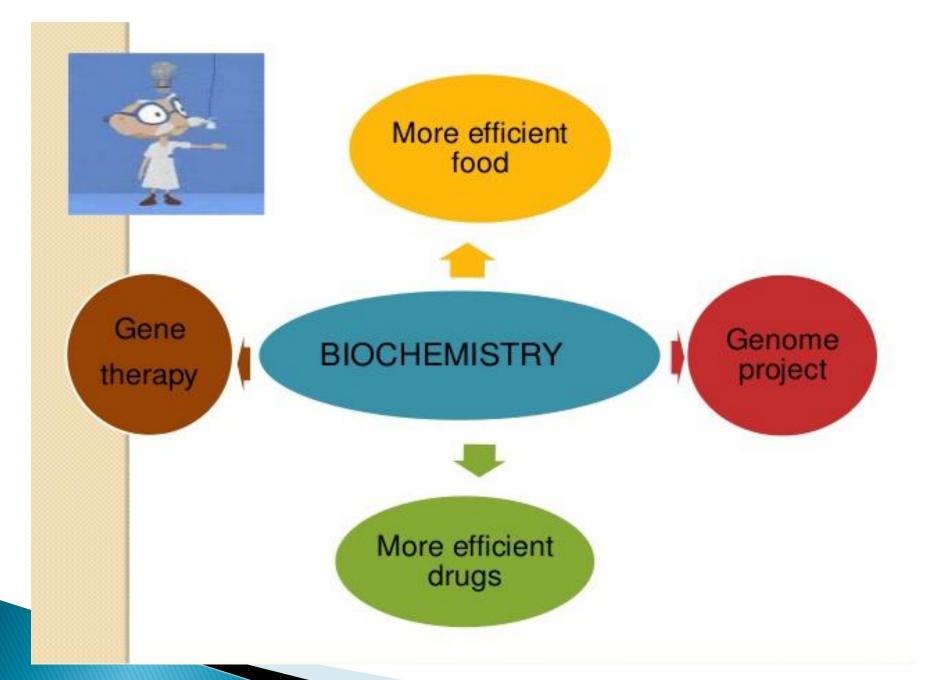




design drugs to targethose changes



reverse the disease state and restore health



ROLE, IMPORTANCE AND ESSENTIALITY OF BIOCHEMISTRY

Biochemistry is essential to understand normal chemistry, metabolism, function and growth of normal human body and to find out abnormal biochemistry of human body in various diseases and clinical conditions.