

#### DNA Extraction from Blood

# Outline

**1-Introduction** 

#### 2-The purpose of extracting DNA

#### **3-principle of DNA Extracting**

4-Method that we will use in this lab

#### Introduction

- The genomes of almost all organisms are DNA, the only exceptions being some viruses that have RNA genomes.
- Genomic DNA molecules constitutes the total genetic information of an organism.
- They are generally large, and in most organisms are organized into DNA-protein complexes called chromosomes.

#### **DNA Extraction**

- Studying DNA is very important, which aids in disease prevention, diagnosis and treatment.
- The first step to study DNA is to do extraction !!
- If you want to study the genetics of Alzheimer disease for example, From where do you think DNA should be extracted?

# **DNA Extraction**

- Many different methods and technologies are available for the isolation of genomic DNA from blood
- All are have general principle
- In Blood DNA is found in
  .....cells



# Principle

• Blood Sample collection (EDTA containing tube)



### **Method:**



#### **DNA Quality and Quantity**

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• After extraction, DNA integrity must be checked.

