

IMMUNOHEMATOLOGY/ BLOOD BANKING

IMMUNOHEMATOLOGY/ BLOOD BANKING

- A branch of immunology which deals with the uses of immunologic principles to study and identify the different blood groups.
- It reflects the importance of the blood bank and the MT profession in ensuring the safety and welfare of patients that require blood transfusion

BLOOD BANK

- A separate area in a CLIN. Lab. hospital where blood is collected from donors.
- Performs ABO and Rh typing
- Prepares blood and blood components for transfusion
- Blood that is transfused into a recipient must be tested first to ensure compatibility with the recipient's blood.
 - To reduce the risk of transfusion reactions
 - To ensure that the blood/blood components are safe

ABO BLOOD GROUP SYSTEM

- Discovered by **Karl Landsteiner** (1900s) and received the Nobel Prize (1930).
- He categorized the blood groups as **A, B, and O**
 - Based on the presence of agglutinating antibodies in the serum/plasma of individuals who do not possess the corresponding ABO antigen.
- AB – 4th major ABO blood type
 - Discovered by **Alfred Von De Castelo** and **Adriano Starli**

ABO Blood Type	Antigen on RBC	Antibody in Serum/Plasma
Type A	A-antigen	Anti-B
Type B	B-antigen	Anti-A
Type AB	A-antigen and B-antigen	No anti-A and anti-B
Type O	No A and B antigen	Anti-A and Anti-B

ABO BLOOD TYPING

- A test to determine the blood type of an individual.
 1. **Cell typing (Direct or Forward typing)**
 - To determine antigens in the RBCs of an individual by using commercially prepared antisera of known specificity
 2. **Serum typing (Backward, Indirect typing)**
 - To determine antibodies in the serum/plasma of an individual by using RBCs of known specificity

FORWARD TYPING

REACTION			Blood Group
Unknown blood + anti-A	Unknown blood + anti-B	Unknown blood + anti-AB	
+	0	+	Type A
0	+	+	Type B
0	0	0	Type O
+	+	+	Type AB

Blood Groups



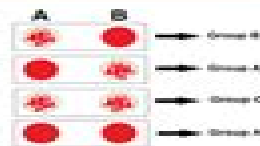
A +



A -

BACKWARD TYPING

REACTION		Blood Group
Unknown serum/plasma + Known A Cells	Unknown serum/plasma + Known B cells	
0	+	Type A
+	0	Type B
+	+	Type O
0	0	Type AB



Group B



Group A



Group O



Group AB

Rh BLOOD GROUP SYSTEM

- Discovered by **Karl Landsteiner** and **Alexander Weiner** (1940)
 - They injected rabbits with **Rhesus macaque** monkey RBCs and Rh antibodies were produced.
 - Rh antibodies + human RBCs = **AGGLUTINATION** → Rh **POSITIVE**
 - Rh antibodies + human RBCs = **NO AGGLUTINATION** → Rh **NEGATIVE**
- 5 important Rh antigens: **D, C, E, c, e**
 - D antigen = most important and immunogenic antigen
- **Rh Typing** = based on the presence and absence of the D antigen on the surface of RBCs using commercially prepared anti-D antisera

Handbook Series In Clinical Laboratory Science Section D Blood Banking Volume 1

M Lipman



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