

# OMICS Group



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# Emmanuel Andres



EB PPT

# BIOGRAPHY

IN 1996, DR ANDRÈS RECEIVED HIS MD DEGREE IN INTERNAL MEDICINE, AT THE UNIVERSITY OF STRASBOURG, FRANCE. HE WORKED AS AN ASSOCIATED PROFESSOR IN THE UNIVERSITY HOSPITAL OF STRASBOURG, FRANCE. IN 1998 HE WORKED AS PHD IN MOLECULAR BIOLOGY IN THE LABORATORY OF PROFESSOR HOFFMANN (2011 NOBEL PRIZE OF MEDICINE) IN THE FIELD OF CATIONIC ANTIMICROBIAL PEPTIDES AND PATHOGENS - HOST RELATIONS. IN 2002, HE WAS NOMINATED PROFESSOR AT THE UNIVERSITY OF STRASBOURG, FRANCE. HE ALSO WAS IN THE HEAD OF AN INTERNAL MEDICINE DEPARTMENT (OF >60 BEDS) IN THE UNIVERSITY HOSPITAL OF STRASBOURG, FRANCE. HE WAS AWARDED THE FRENCH SOCIETY OF HAEMATOLOGY, PRICE FOR RESEARCH IN THE FIELD OF ANAEMIA RELATED TO COBALAMIN OR FOLATE DEFICIENCIES IN 2004. ACHIEVEMENTS INCLUDE DEVELOPMENT OF RESEARCH IN: ALL TYPE OF ANAEMIA, NEUTROPENIA AND THROMBOCYTOPENIA, PARTICULARLY DRUG-INDUCED NEUTROPENIA AND AGRANULOCYTOSIS OR THROMBOCYTOPENIA; HAEMATOPOIETIC GROWTH FACTORS; AND COBALAMIN DEFICIENCIES. HIS RECENT WORKS ALSO INCLUDE RESEARCH AND DEVELOPMENT ON HUMAN SOUNDS ANALYSIS, ELECTRONIC STETHOSCOPE, E-AUSCULTATION, AND E-MEDICINE. IN THAT FUNCTION HE WAS RECRUITED AS ADVISOR TO SEVERAL PHARMACEUTICAL COMPANIES OR START-UP. IN 2007, HE WAS NOMINATED IN THE FRENCH NATIONAL COMMISSION OF PHARMACOVIGILANCE

# RESEARCH INTEREST

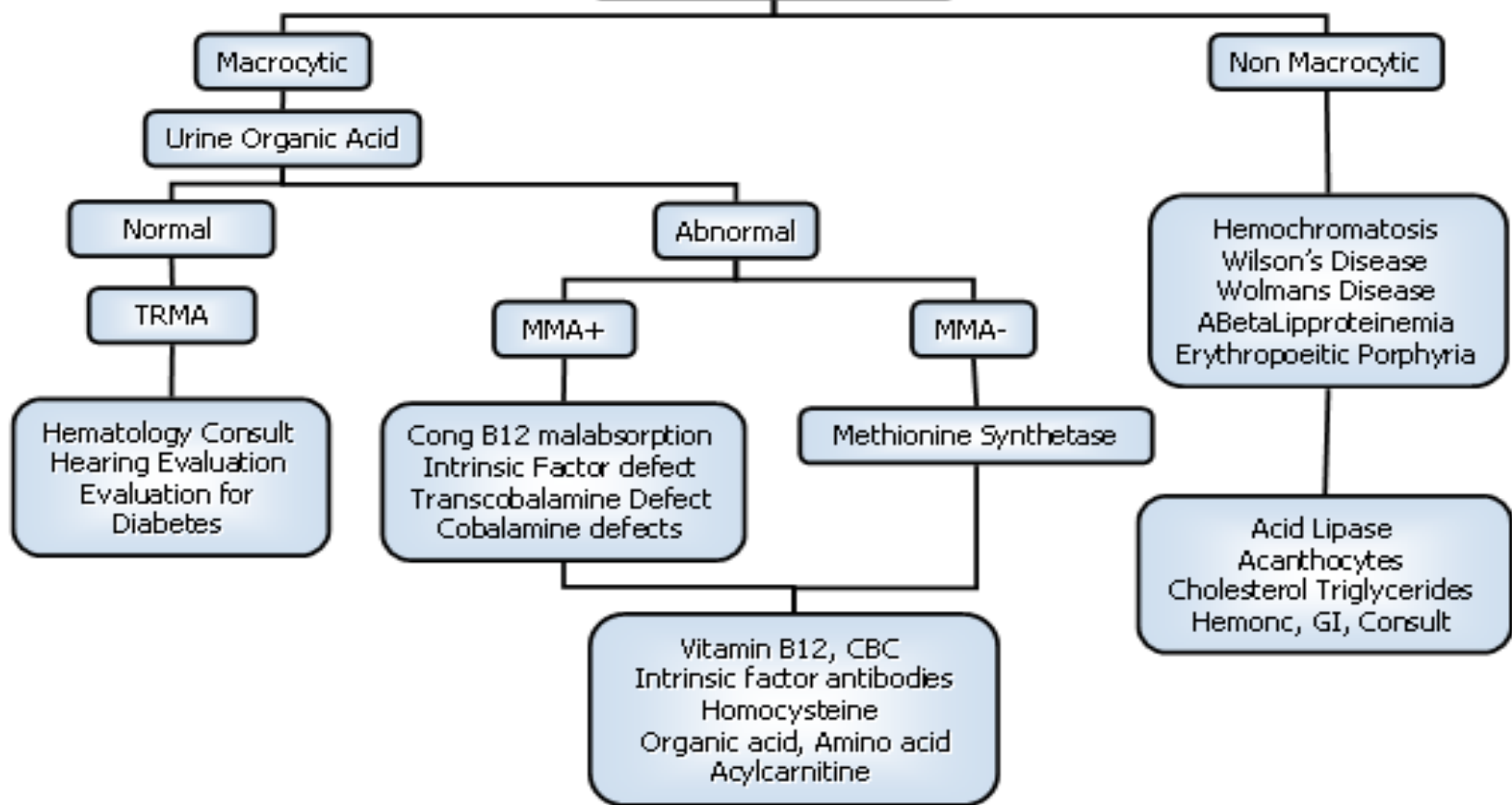
DEVELOPMENT OF AN ELECTRONIC STETHOSCOPE  
"INTELLIGENT" AND BASIC RESEARCH AND CLINICAL  
AUSCULTATION HUMAN.

DEVELOPMENT WORK AND RESEARCH PROJECTS IN THE  
FIELD OF TELEMEDICINE AND THE CONTRIBUTION OF NEW  
TECHNOLOGIES TO SUPPORT CHRONIC DISEASE AND OLD  
AGE (COPD, DIABETES, ALZHEIMER'S...).

CLINICAL RESEARCH ACTIVITY IN INTERNAL MEDICINE AND  
HEMATOLOGY WITH THE FOLLOWING THEMES: ANEMIA,  
NEUTROPENIA AND AGRANULOCYTOSIS DRUG, IDIOPATHIC  
THROMBOCYTOPENIC PURPURA, RESEARCH ACTIVITY IN  
THE FIELD OF METABOLISM INCLUDING DEFICIENCIES IN  
VITAMIN B<sub>12</sub>.

CLINICAL RESEARCH ACTIVITY ON ORPHAN DISEASES  
DEVELOPING A BIOBANK OF SAMPLES FROM THE BODY OF  
PEOPLE WITH COMMON PATHOLOGIES COMPLEX (BIOMAX).

# Anemia





# Symptoms of Anemia

Red = In severe anemia

**Eyes**  
- Yellowing

**Skin**  
- Paleness  
- Coldness  
- Yellowing

**Respiratory**  
- Shortness of breath

**Muscular**  
- Weakness

**Intestinal**  
- Changed stool color

**Central**  
- Fatigue  
- Dizziness  
- Fainting

**Blood vessels**  
- Low blood pressure

**Heart**  
- Palpitations  
- Rapid heart rate  
- Chest pain  
- Angina  
- Heart attack

**Spleen**  
- Enlargement



**Anemias**  
↓ red cell mass

↓ **Erythropoiesis**

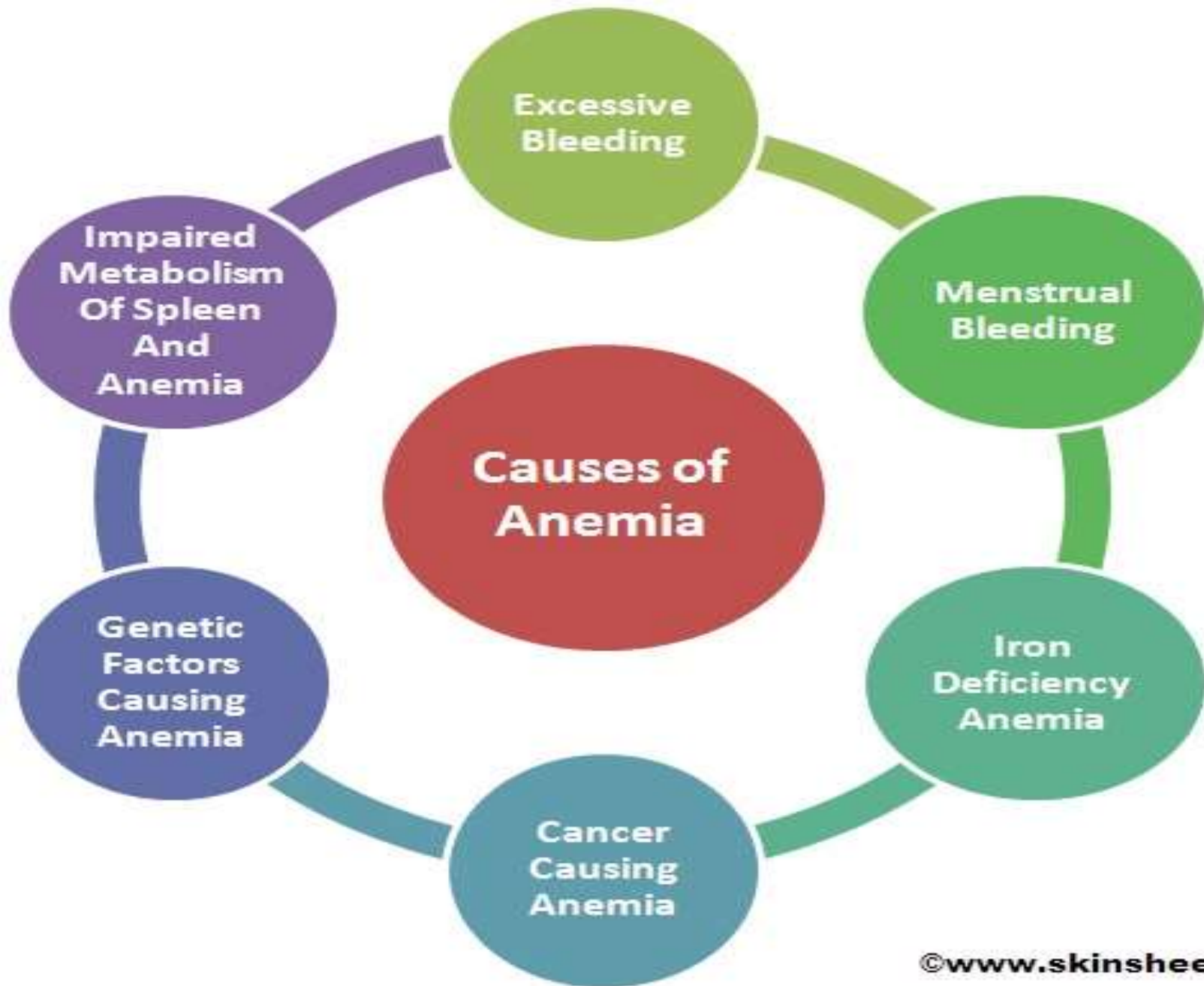
**Megaloblastic**  
**B12, Folate.**

**Iron deficiency**

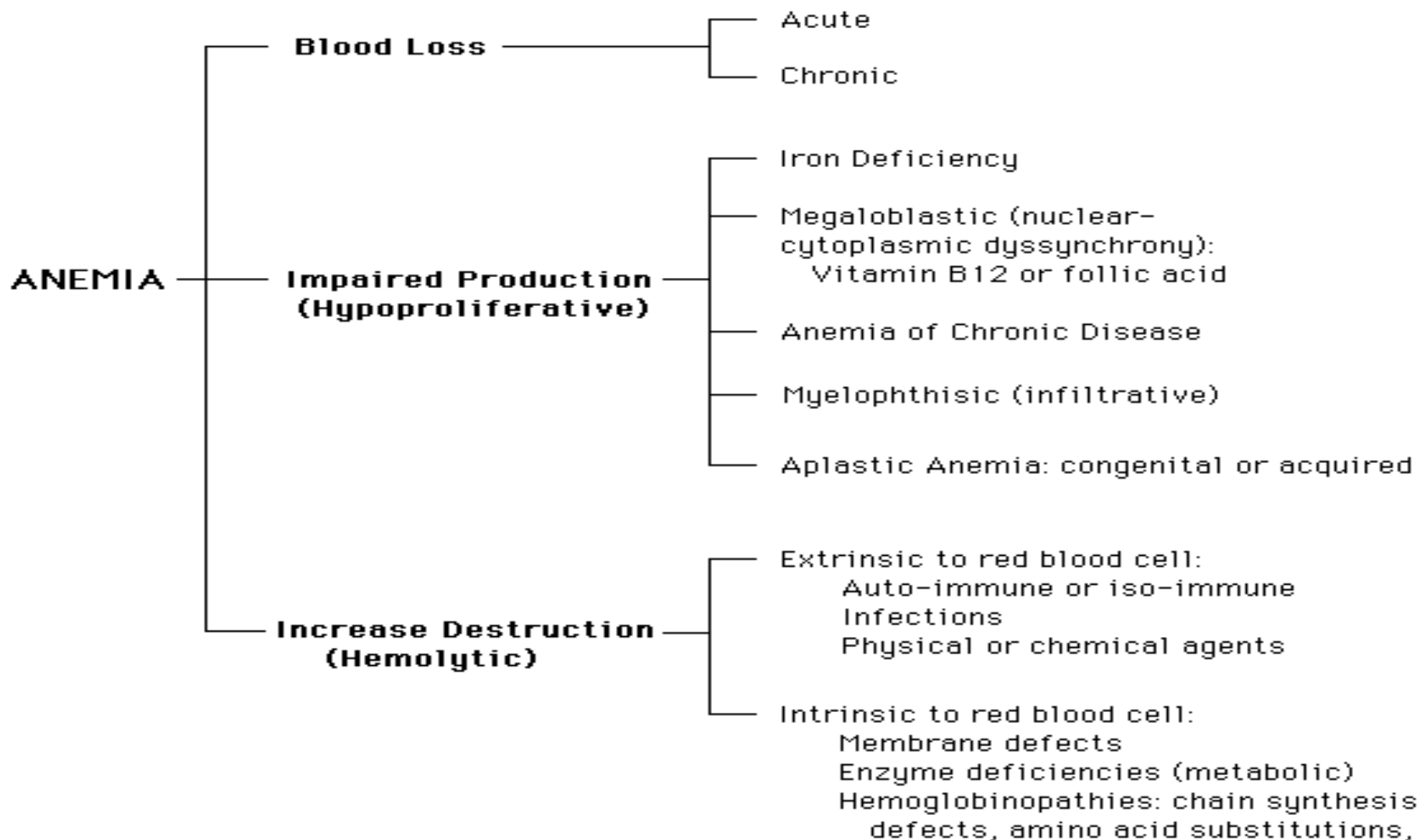
**Anemia of Chronic  
disease**  
(Renal Disease  
& Liver Disease)

**Marrow failure**  
Aplastic anemia  
Pure red cell aplasia  
Others





## CLASSIFICATION OF ANEMIAS

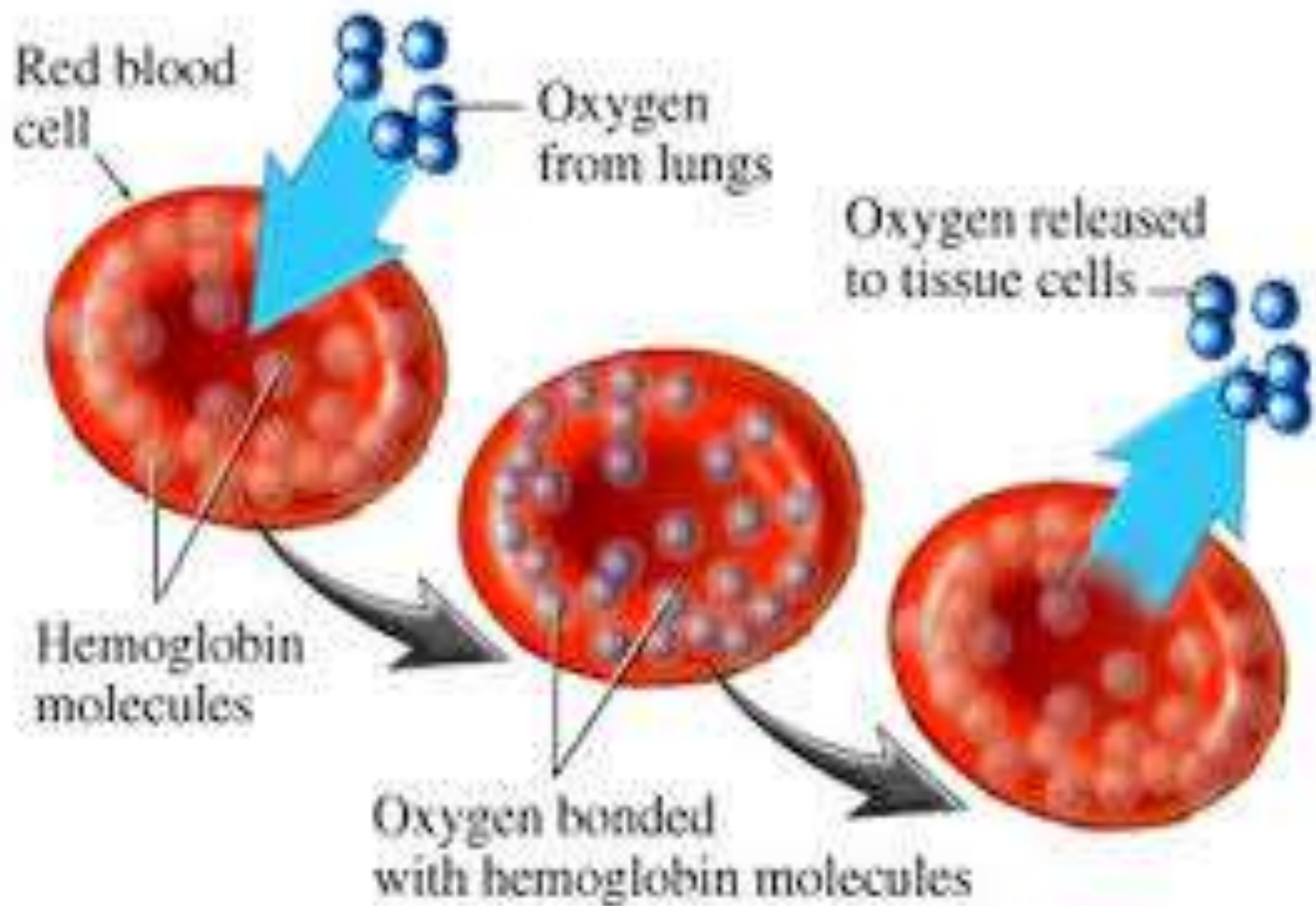


**Anemia**



**Normal blood**







# ADVICE FOR ANEMIA

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- Take animal foods that provide protein and high doses of vitamin B12.



- Try to combine cereals, bread and vegetables with milk or egg.



- Finish meals with a fruit rich in vitamin C that increases iron absorption.

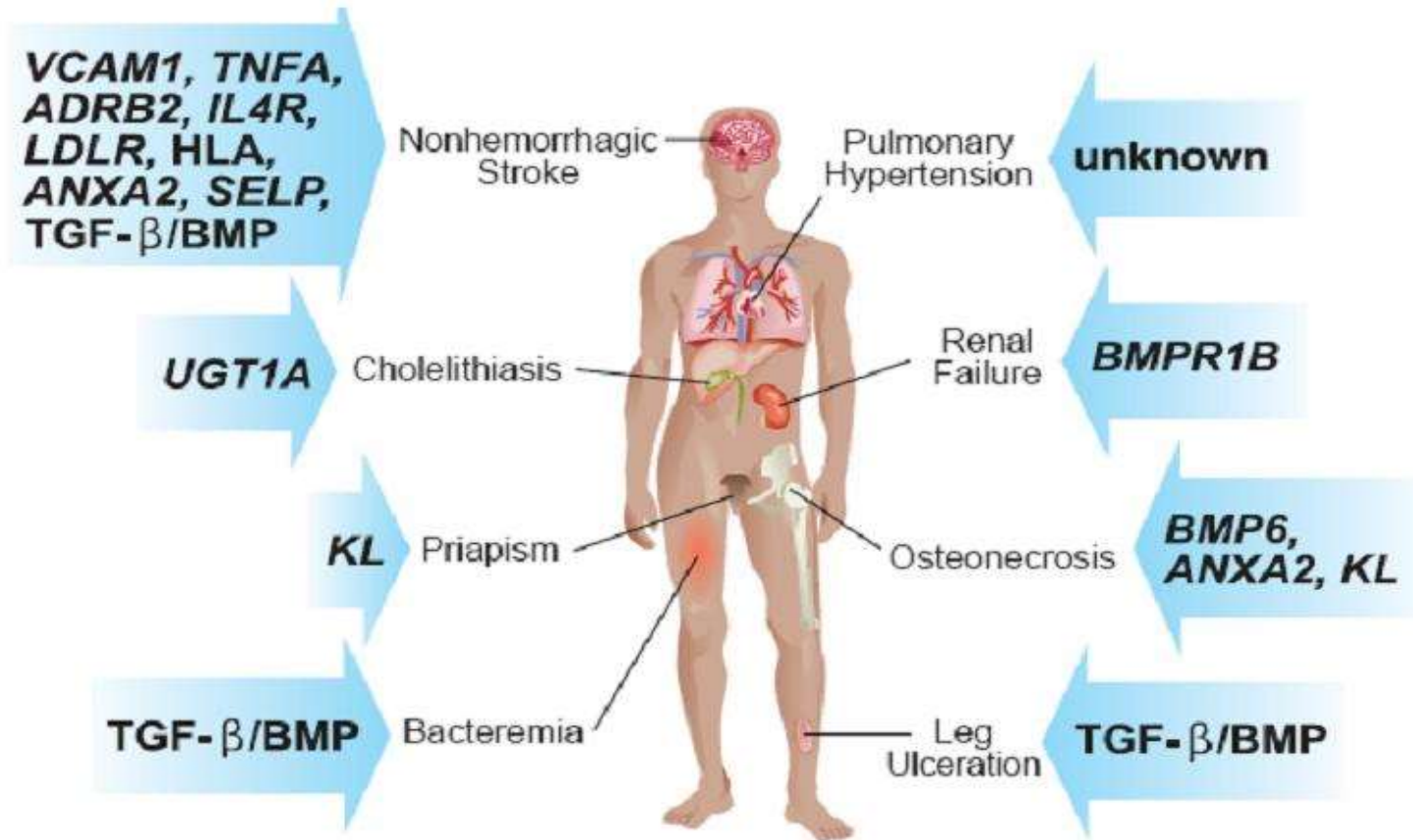


- Take dried fruit and nuts between meals to provide iron all day.

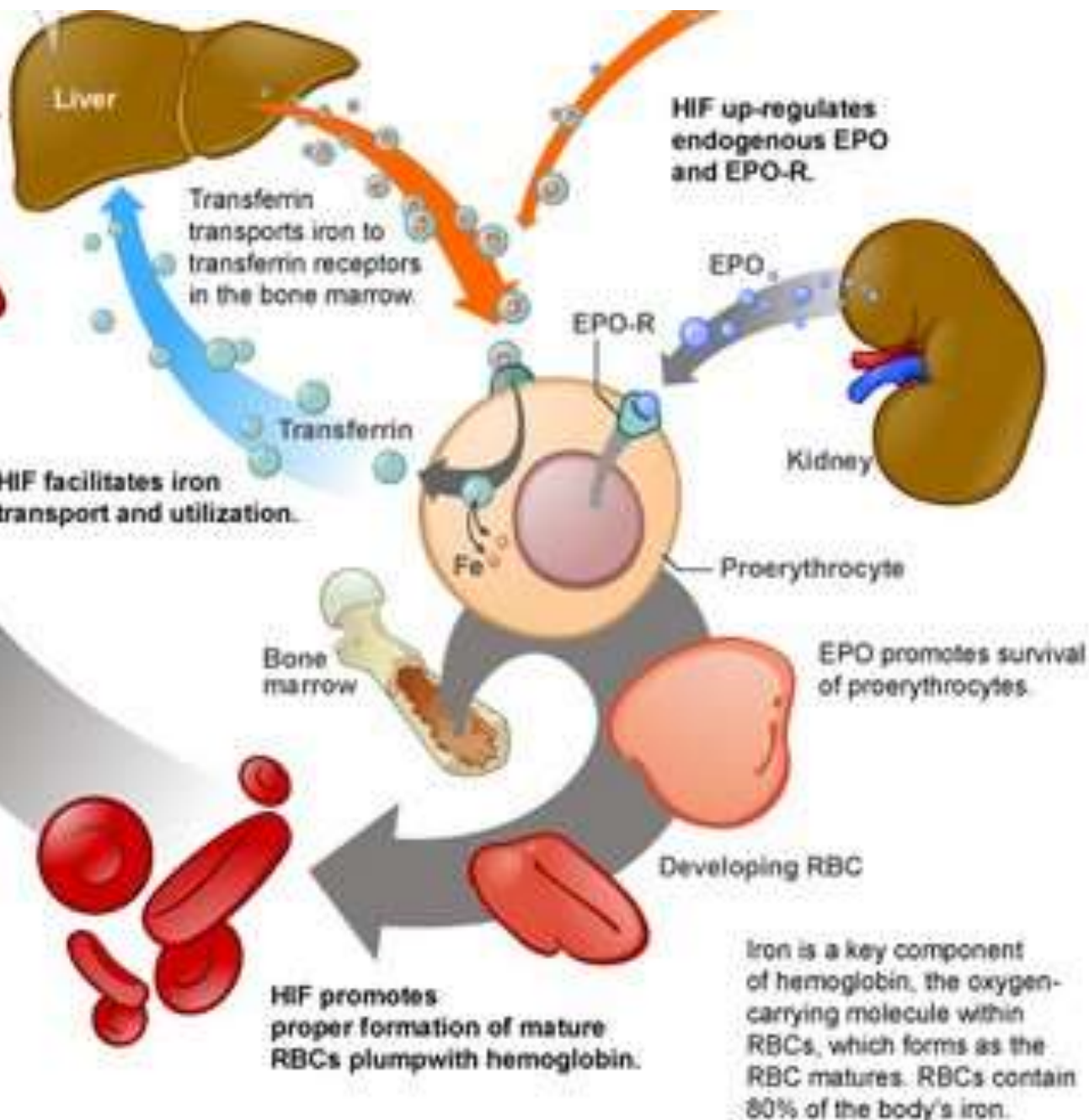


- Green vegetables every day: they are the best source of dietary folic acid.

# Genetic Modulation of Sickle Cell Anemia



Red blood cells have a life cycle of 120 days. Dead RBCs are scavenged by the liver.





# SIGNATURE



EMMANUEL ANDRES

# Journals

Drug Designing

Drug Metabolism &  
Toxicology

Bioequivalence &  
Bioavailability



# CONFERENCES

3<sup>RD</sup> INTERNATIONAL SUMMIT ON GMP, GCP AND QUALITY CONTROL

[HTTP://WWW.PHARMACEUTICALCONFERENCES.COM/GMP-GCP-QUALITY-CONTROL-2014/](http://www.pharmaceuticalconferences.com/gmp-gcp-quality-control-2014/)

5<sup>TH</sup> INTERNATIONAL CONFERENCE AND EXHIBITION ON PHARMACEUTICS & NOVEL DRUG DELIVERY SYSTEM

[HTTP://NOVEL-DRUGDELIVERY-SYSTEMS.PHARMACEUTICALCONFERENCES.COM/](http://novel-drugdelivery-systems.pharmaceuticalconferences.com/)

3<sup>RD</sup> INTERNATIONAL CONFERENCE AND EXHIBITION ON PHARMACOGNOSY, PHYTOCHEMISTRY & NATURAL PRODUCTS

[HTTP://PHARMACOGNOSY-PHYTOCHEMISTRY-NATURAL PRODUCTS.PHARMACEUTICALCONFERENCES.COM/](http://pharmacognosy-phytochemistry-natural-products.pharmaceuticalconferences.com/)

3<sup>RD</sup> INTERNATIONAL CONFERENCE AND EXHIBITION ON PHARMACOVIGILANCE & CLINICAL TRIALS

[HTTP://WWW.PHARMACEUTICALCONFERENCES.COM/PHARMACOVIGILANCE-CLINICAL-TRIALS-2014/](http://www.pharmaceuticalconferences.com/pharmacovigilance-clinical-trials-2014/)

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