

BIOTECHNOLOGY and BIOPHARMACEUTICS

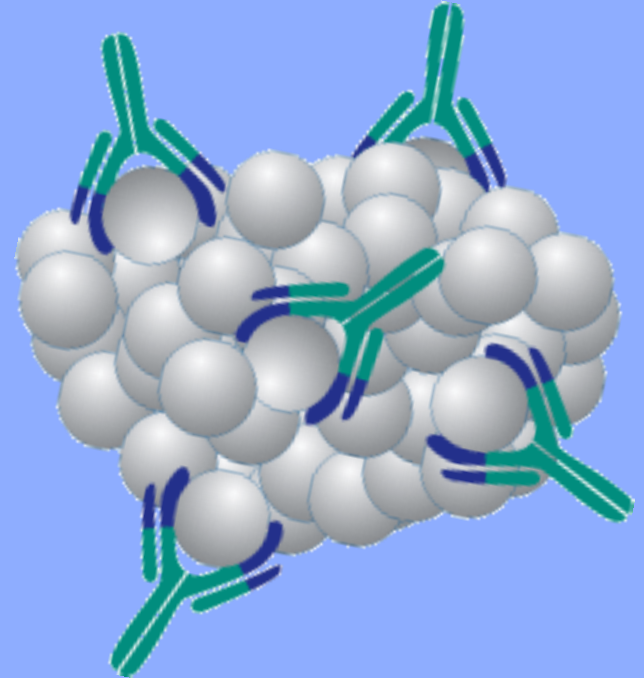
Assoc. Prof. Fadime KIRAN



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Therapeutic and Clinical Applications of Biopharmaceuticals

Antibodies and Derivatives
Vaccines



Monoclonal antibodies (mAbs) are produced by B cells and specifically target antigens.

ANTIBODY PRODUCTION

(A) Mouse hybridoma

(B) Phage display

(C) Transgenic mouse

NOMENCLATURE

GUIDE LINE



Generic Name

Prefix Target area Origin of antibody

+

mab

APPLICATION of ANTIBODIES

- THERAPEUTIC
- DIAGNOSTIC



Target
Identification



Antibody
développement



in vitro
tests



ELISA/IHC
validation



In vivo
proof of concept



PK/PD/Tox

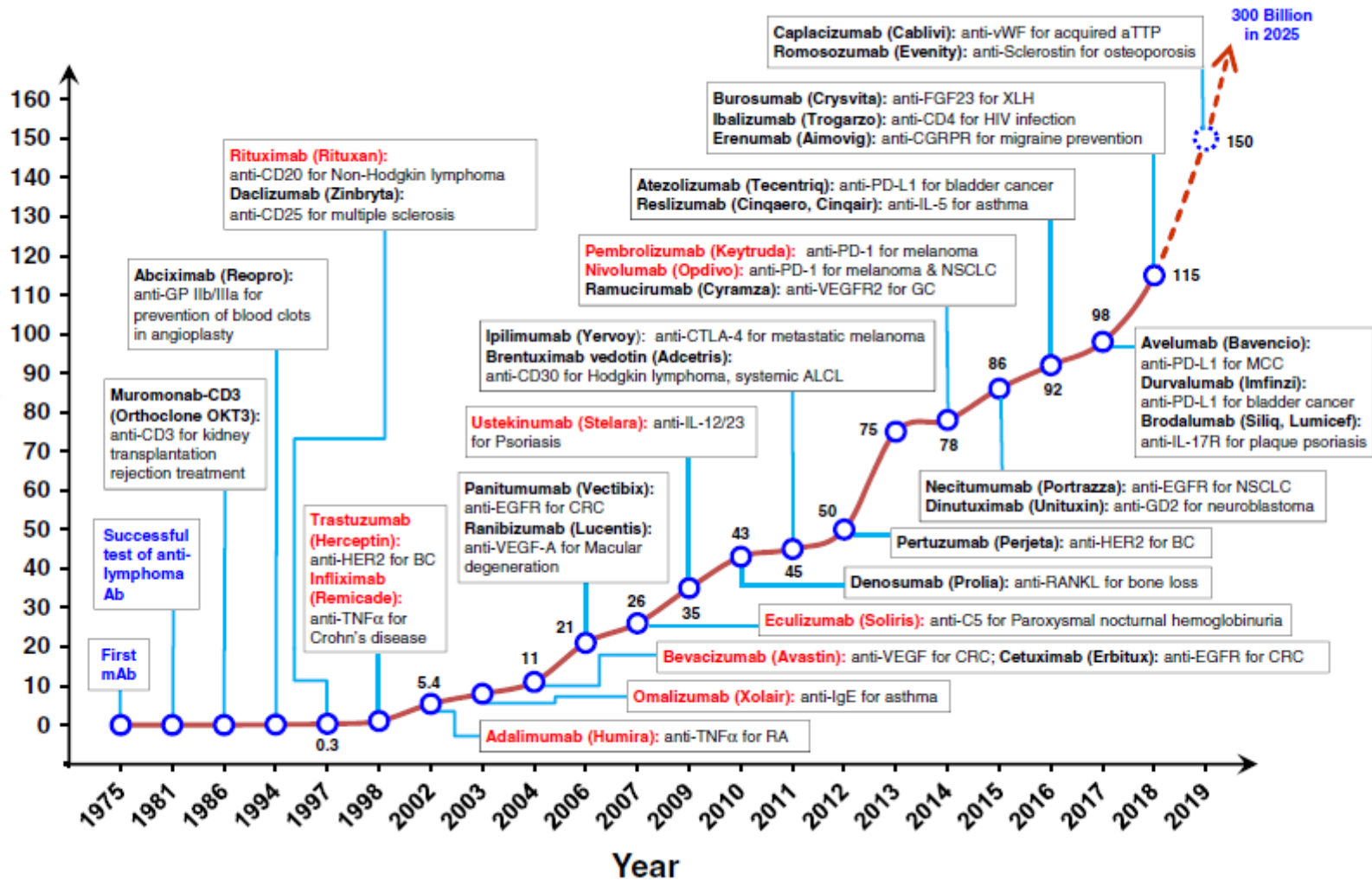


Antibody
Humanization

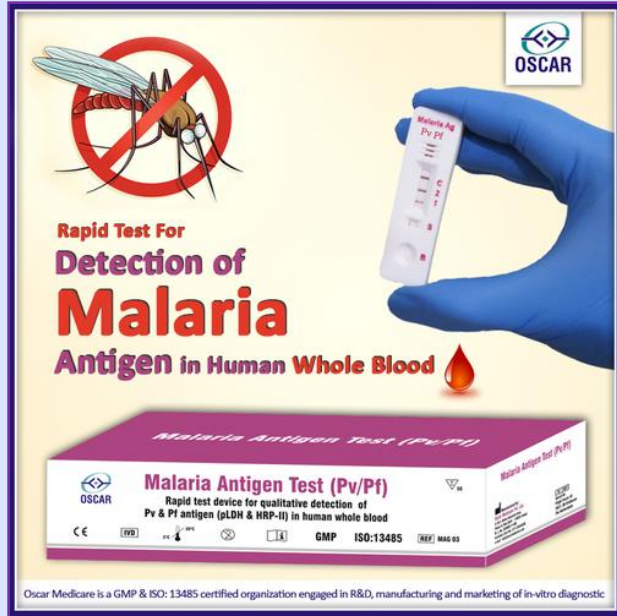


Clinical trial

Market Value (Billion)



•DIAGNOSTIC APPLICATIONS



**Rapid Test For
Detection of
Malaria
Antigen in Human Whole Blood**

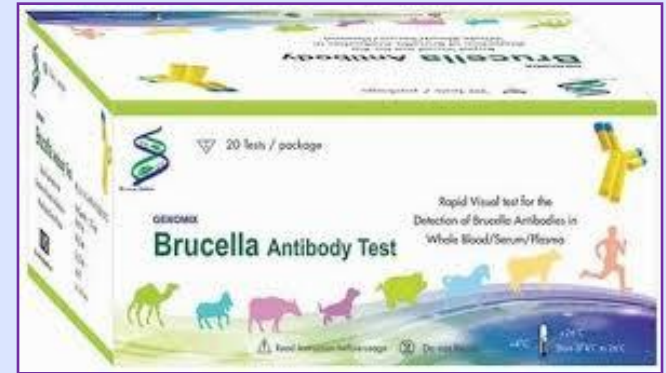
OSCAR

Malaria Antigen Test (Pv/Pf)

Rapid test device for qualitative detection of Pv & Pf antigen (pLDH & HRP-II) in human whole blood

CE IVD ISO 13485 GMP ISO:13485 (REF) MAA 03

Oscar Medicare is a GMP & ISO: 13485 certified organization engaged in R&D, manufacturing and marketing of in-vitro diagnostic



20 Tests / package

GENEMEX

Brucella Antibody Test

Rapid Visual test for the Detection of Brucella Antibodies in Whole Blood/Serum/Plasma



Sugentech

**SGTi-flex
COVID-19 IgM/IgG**

Intended Use
SGTi-flex COVID-19 IgM/IgG Test is an immunochromatographic qualitative detection of IgM and IgG antibodies to COVID-19 in human whole blood, serum or plasma. It is not to be used as a screening test for COVID-19 and infections.

