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Nota di contenuto	Anti-gal in humans and its antigen the [alpha]-gal epitope -- Why do we produce anti-gal -- Anti-gal comprises most of anti-blood group b antibodies -- Anti-gal interaction with Trypansoma, Leishmania, and Plasmodium parasites -- Anti-gal b cells are tolerized by a [alpha]-gal epitopes in the absence of t cell help -- Anti-gal and other immune barriers in xenotransplantation -- Anti-gal IgE mediates allergies to red meat -- Anti-gal and autoimmunity -- Anti-gal-mediated amplification of viral vaccine efficacy -- Cancer immunotherapy by anti-gal-mediated in situ conversion of tumors into autologous vaccines -- Anti-gal as cancer cell destroying antibody and as antibiotics targeted by [alpha]-gal bifunctional molecules -- Acceleration of wound and burn healing by anti-gal/[alpha]-gal nanoparticles interaction -- Anti-gal and anti-non gal antibodies in regeneration of extracellular matrix bio-implants -- Post infarction regeneration of ischemic myocardium by intramyocardial injection of [alpha]-gal nanoparticles -- Regeneration of injured spinal cord and peripheral nerves by [alpha]-gal nanoparticles -- Inhalation of [alpha]-gal/sialic acid liposomes for decreasing influenza virus infection.