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Crystal City - Dr. George Poczewnik

This idea involves generating antibodies to all possible naturally occurring antigenic determinants as well as generating all possible naturally as well as non naturally or previously occurring antigenic determinants.

Presquib's patent (# 4,359,535) allows a method for generating peptides and proteins from random libraries of DNA. This allows one to generate all short nucleotide sequences from a DNA molecule that codes for peptides subunits of the proteins various possible proteins. Among this class of peptides exist all possible antigenic determinants based on sequence and local secondary structure.

Monoclonal antibodies formed to this population as a Presquib's suggestion to Antibody phage became Cellon Antibody exp which became the phage Antibody exp then a population of monoclonals to a population of all possible antigenic protein determinants.

These are then sorted into a matrix of monoclonal versus pure antigen such that random monoclonal antibodies to random the same antigen are scored (the occurrence of seq secondary structure gives one a boundary on the combinatorial options available to the immune system system).

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Disclosure Document Program

11/1/83 - Crystal City - Dr. George Hreschke
This matrix of monoclonals screens all small
antigen determinants has within it the
possibility of being an active as well
as passive vaccine method of making
a vaccine to any replicating organism,
or protein ~~and~~ defective system or
protein modified disease causing system.

This matrix can be searched
by either the organism causing the disease
or an antibody that was ~~was~~ created by the
disease.

For example, shared human DNA random as
in Phagebank, pat # 4,359,535 with generate an
expression vector as in ~~in~~ all shuman
antigenic determinants that are composed of
small polypeptide sequences. Generate, rat
or human or other monoclonals to these
antigens, in a sorted matrix allow some
to react with human antibody to ~~use~~ identify
mouse to isolate determinant.

^{in nucleus and ~~the~~} Directly or ~~can~~ screen with ~~very~~ ~~large~~ bacteria,
problem if any reactions compete; then ~~have~~ ~~to~~
or ~~no~~ identified as ~~antigen~~ monoclonal & specific
antigen purified.

Can we read, phage, bacteriophage, process to,
any organism DNA and generate random ~~matrix~~
thus allow defining antigenic determinants for
these organisms.

Can we screen ~~some~~ human, ~~thymus~~ ~~from~~
abnormal ~~organism~~ for ~~very~~ ~~many~~ different
monoclonal matrix.

Idea is to generate matrix of highly specific, pure
antibody + antigen to all possible determinants.

