

Molecular Biocompatibility

- Chou, et al., J. Cell Sci., 108:1563,1995
- Chou, et al., J. Dent. Res., 74:190, 1995

-- Biomaterial surface chemistry and topography sensitively and selectively regulate the gene expression and cellular behavior.

FN AK
VT PGNP A5B1 ON OP EGI
MMP-3 MMP-2 TIMP-2 TIMP-1 T₆ HL

“Molecular Biocompatibility”



Investigation



Molecular Profile



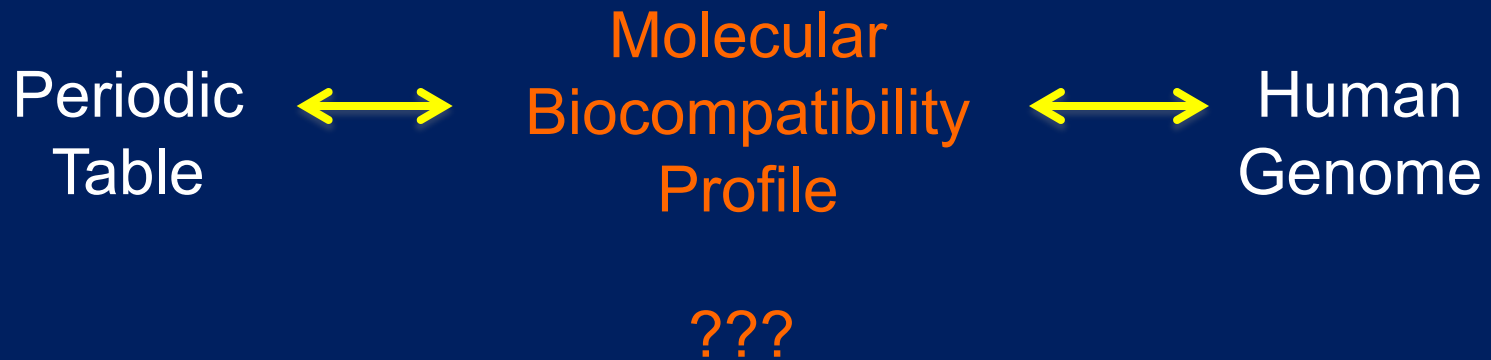
Modification



Innovation

“Molecular Biocompatibility Profile”

Chou, 2000



Materials Genome Initiative



Materials Genome Initiative

“To help businesses discover, develop, and deploy new materials twice as fast, we are launching what we call the Materials Genome Initiative.”

- President Obama, June 2011 at Carnegie Mellon University

