status report on knowledge management pilots
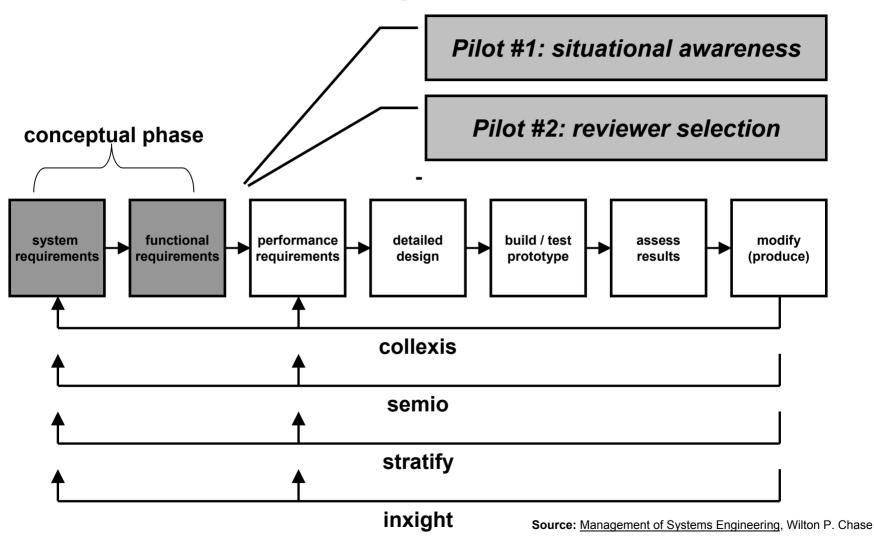
questions for the
eRA Project Team Retreat

refresher: KM definition

function	applications
Retrieval	search engines, intelligent agents , push technology
Discovery	data mining, visualisation
Sharing	groupware, doc management, best practice DBs
Development	pattern recognition, concept mapping
Int. Capital	measurement systems, bibio- or scientometrics
Integration	mediation, portals, KM suites, After Action Reviews

km pilots

conceptual phase

Pilot #1: situational awareness

Pilot #2: reviewer selection

| system requirements | functional requirements | performance requirements | detailed design | build / test prototype | assess results | modify (produce) |

collexis

semio

stratify

inxight

Source: <u>Management of Systems Engineering</u>, Wilton P. Chase

document analysis

View the context in which the concept arises:

Document Text

[Show Full Text]

...recognition, alloreactivity, and autoimmunity. The basis for this model is the a lloreactivity of a T cell, R28, specific for the RNase (41-61)/I-Ak determinant to the I-Ag7 molecule. R28 TCR transgenic mice (KRN) when crossed to the NOD str ain exhibited pronounced joint *inflammation*. The KRN x NOD mice share most of th e major clinical, histological and immunological features of human rheumatoid ar thritis. The 100% disease incidence and the early and reproducible time of onset make this a very attractive and powerful model. In the studi...

- OR -

View the entire source document:

```
-Record_Id-
     PO1AI31238-10    0006
-INVESTIGATOR-
     ALLEN, PAUL M
-TITLE-
     TCR Ligands in Rheumatoid Arthritis
-NARRATIVE-
     Susceptibility to autoimmune diseases has been directly linked to the major
     hist ocompatibility complex (MHC); however, the role the MHC gene products
     play has n ot been ascertained. We propose to utilize a recently described
     murine model of rheumatoid arthritis (RA) to investigate the relationships
     between self-peptide recognition, alloreactivity, and autoimmunity. The
     basis for this model is the a lloreactivity of a T cell, R28, specific for
     the RNase (41-61)/I-Ak determinant to the I-Ag7 molecule. R28 TCR
     transgenic mice (KRN) when crossed to the NOD str ain exhibited pronounced
     joint inflammation. The KRN x NOD mice share most of th e major clinical,
     histological and immunological features of human rheumatoid ar thritis. The
     100% disease incidence and the early and reproducible time of onset  make
     this a very attractive and powerful model. In the studies proposed in aim
     I, we will identify using peptide libraries an allomimotope peptide, which
     can s timulate the KRN T cells. This recognition will then be compared and
     contrasted to that of RNase (41-61)/I-Ak. These studies will provide a
     structural definitio n of the different ligands recognized by KRN T cells
     and insights into what type  of recognition events are involved in
     autoreactivity. In aim II we propose to t est in vivo the ability of
     altered peptide ligands to block the induction and de velopment of RA. We
     will also involve directly visualizing in vivo the location and function of
     the autoreactive T cells. These in vivo studies will establish t he
     potential of altered peptide ligands to treat RA. In aim III, we propose to
     i dentify what properties of the target ligands are necessary for disease
     inductio n. These studies will involve a second alloligand of the KRN T
     cells, I-AkA65, w hich differs from the I-Ag7 molecule in several
     biochemical and functional prope rties. Overall, these proposed studies
     will provide important new insights into the relationship between the T
     cell recognition of antigen and the development o f autoimmune disease.
-THESAURUS_TERMS-
     laboratory mouse
     transgenic animal
     T lymphocyte
     cellular pathology
     molecular pathology
     pathologic process
     ligand
     disease /disorder model
```
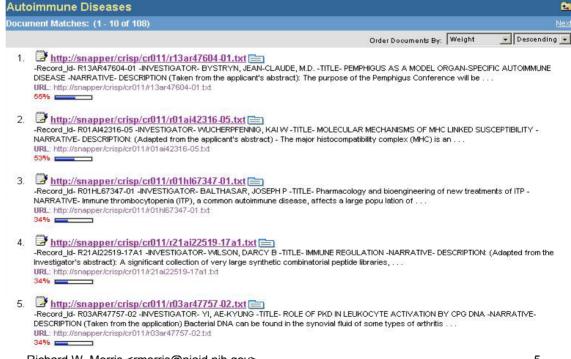
mediation

Taxonomy Drill Down Path:
Root Category > CRISP Abstract > Diseases > Immunologic Diseases > Autoimmune Diseases

Taxonomy

Content

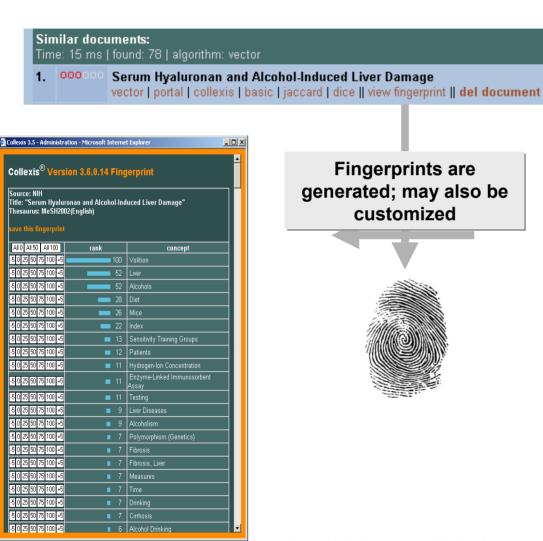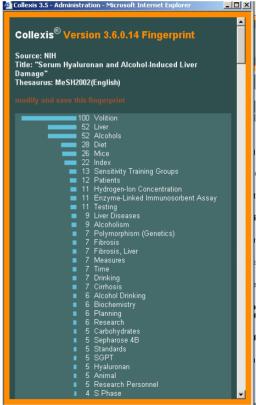Richard W. Morris <rmorris@niaid.nih.gov>

fingerprints: concept-based search
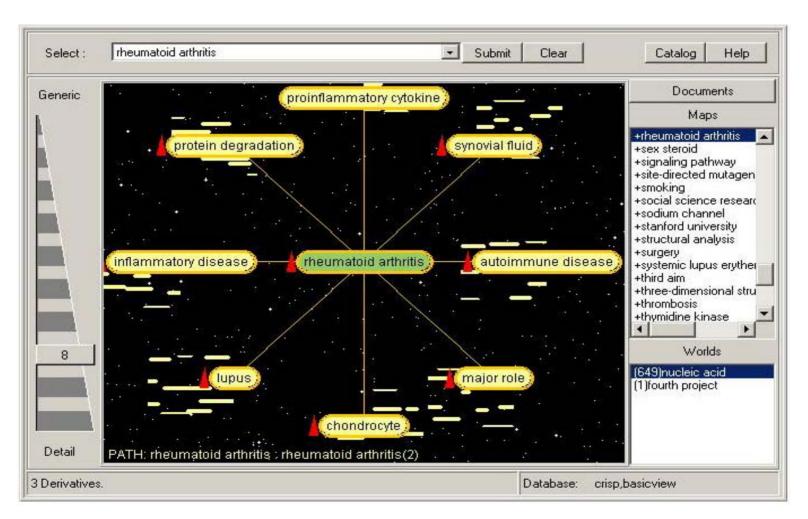
conceptual tuning

Richard W. Morris <rmorris@niaid.nih.gov>

conceptual relationship management

for the retreat

What is the price point?

what is the *"price point"* ?

- **end-user**

- **eRA leadership**

- **NIH leadership**

- **vendor**

- **switch to KM apps**

- **broad implementation**

- **invest and measure**

- **offer and train in KM**

homework for the eRA retreat

- **analyst in OD**

- *necessary conditions?*

- **extramural PO**

- *necessary conditions?*

- **officer in CSRA**

- *necessary conditions?*

- **officer in grants admin**

- *necessary conditions?*

to start the discussion

	Pilot 1 **(Mediation)**	**Pilot 2** **(Fingerprints)**
Roles/People Enabled	• Program officers • NIH Executives on committees and studies	• Referral Officers in CSR • SRAs in CSR and in ICs
Tasks Transformed	• Serve on Trans-NIH (and Trans-HHS) committees • Deal with material outside of own area of expertise	• Assign applications to ICs, IRGs and Study Sections • Assign applications to reviewers
Expected Benefits (speed, quality)	• Quickly Make Sense of New Material • Contribute better to committees	• Referral Guidelines incorporated • Assistance in making assignments

end