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From                                                 October 31, 1994
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                     ==== CytometryNet1 ======
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- CytometryNet:
   The function of the CytometryNet is to provide easy access to the
addresses and activities of the national, regional and international
cytometric societies. The necessity for closer contact arises from
the explosive growth of cytometric techniques in basic, clinical and
industrial research with the resulting need for fast mutual
information fluxes.

   Besides structural information on a cytometric society like
address of the secretariat, officers, bylaws, membership, history
etc. the informations on the functional activities of the societies
like meetings, abstract titles, newsletters, courses etc. are of high
interest for an efficient international cooperation.

   The planned on-line display of the ongoing work on consensus
protocols for immunophenotyping seems of high interest for the joint
international efforts for quality assurance and control in cytometry.

   The decentralized CytometryNet assures a maximum of world wide
information efficiency at a minimum of efforts for the respective
cytometric societies.

- Function of a Gopher server node:
   While E-mail messages can be send to any existing E-mail address,
it is not possible to address or login at these E-mail addresses to
actively inspect or retrieve information from there. Server nodes
are created for these purposes e.g. for on-line information systems.
A server node, when addressed, recognizes the demand and communicates
with the login user permitting him to access the stored information.
An indicated E-mail address in the server node information package
usually permits to the login user to communicate with the
association,
institution or person providing the on-line information via E-mail.

- Installation of a CytometryNet Gopher server nodes:
   Concerning the CytometryNet, the following two E-mail messages
CytometryNet2 and CytometryNet3 contain the present installation
of the: cytogerm.biochem.mpg.de Gopher server node,
localized in a MS-DOS PC in my laboratory, as a setup example.

- Binarize and decompress files:
   The messages will usually arrive on a mainframe computer from
which they are transferred via WINDOWS, NFT or FTP programs into
a MS-DOS PC.

   The message CytometryNet2 contains the file: LHARC.UUE. This
file is an ASCII code transform from the originally binary program
file: LHARC.EXE via the public domain program: UUENCODE.EXE. The
ASCII transform is a precondition for E-mail transfer.

The executable binary version of the: LHARC.UUE program is
reconstituted with the public domain program: UUDECODE.EXE by
executing: UUDECODE LHARC in the MS-DOS PC.

   The message CytometryNet3: CYTOGERM.UUE is retransformed
into binary code by: UUDECODE CYTOGERM.UUE. This yields the
compressed binary file: CYTOGERM.LZH. The file is copied into
the root directory of the main drive C: or into the root
directory of another drive together with the LHARC.EXE program.

   The command: LHARC E /R CYTOGERM.LZH unpacks the:
CYTOGERM.LZH file and provides the files: CONFIG.GPH,
AUTOEXEC.GPH and FTPUSERS in the root directory as well as
the directories: \GOPHER and \GOPHERD. The LHARC program
questions as to whether directories are to be generated
are all answered with: Y to ensure the correct directory
and file structure.

- Gopher node directory and file structure:
   Directory \GOPHER contains subdirectories: \GOPHER\CYTOGERM
with the various ASCII text files (secretar.txt, executiv.txt
etc) on the respective cytometric society while subdirectory:
\GOPHER\LINKS contains the links i.e. the computer nodes of
the other cytometric societies. This facilitates automated
dialing. It is important to assure that the node names of the
various societies are maintained for a longer period of
time e.g. for several years to provide stable links.

- Maintenance of stable links:
   Maintenance of the mnemnonic computer address e.g:
cytogerm.biochem.mpg.de means that the server node may well
be transferred without problems from one computer to another
under the same institutional main node. The computer address
changes, however, when the server is relocalized under another
institutional main node.

   The maintenance of the server node under the same
institutional main node is not problematic because the FTP
server function of the NOS192.EXE public domain software permits
remote alterations of the Gopher node text files via a specified
username e.g: valet in the: FTPUSERS file in conjunction with
a password e.g: admin. The potential for remote alterations is
of importance upon changes of the presidency or of the
secretariat of a cytometry society.

   Changes of a CytometryNet gopher node to another institutional
main node should be communicated to all CytometryNet societies
via their secretariat's E-mail address to assure stable links.

- Gopher server program NOS192.EXE:
   Directory: \GOPHERD contains the Gopher network server program:
NOS192.EXE as well as the network command file: AUTOEXEC.NOS. The
server activation call: NOS192 AUTOEXEC.NOS can be executed manually
in the GOPHERD directory but automated execution by the:
\AUTOEXEC.GPH
and \CONFIG.GPH upon file e.g. in case of power failure is
preferable.
Both files are adjusted for this purpose to the needs of the
particular
MS-DOS PC and activated for automated action by: COPY \CONFIG.GPH
C:\CONFIG.SYS and: COPY \AUTOEXEC.GPH C:\AUTOEXEC.SYS.

- Monitoring of CytometryNet Gopher node activity:
   The external use of the node can be monitored by the NOS192.EXE

program command: TAIL /GOPHER/CYTOGERM.LOG. Printing of the:
\GOPHER\CYTOGERM.LOG file is achieved by file transfer into another
computer via the remote FTP operation providing: user name and
password
(e.g. valet admin).

- Setup and adressing of CytometryNet Gopher node:
   The activation of the Gopher server requires the correct addresses
of the local INTERNET and ethernet nodes e.g. 141.61.1.1 and subnodes
in the AUTOEXEC.NOS file. This setup has to made by the local
computer
center. The commands and setup of the Gopher server are explained in
the NOS192.TXT text file which is in ASCII code while the more
extensive
manual: KA9QNOS.PS can be printed on a Postscript file printer.

   In the present setup the: cytogerm.biochem.mpg.de Gopher node may
be called by DOS or WINDOWS programs: GOPHER.EXE or HGOPHER.EXE as
well as by: FTP.EXE due to the incorporated FTP server function of
the NOS192.EXE program.

   The FTP server of the Gopher node is addressed from another
computer
by running: FTP.EXE. The access to the Gopher node is opened with the
command: open cytogerm.biochem.mpg.de. The consecutive FTP program
question: user name is answered by: anonymous and the password
question by the: user name.

   The cytogerm Gopher node can presently also be reached via the
WINDOWS: MOSAIC program for the world wide web net (www) by
providing:
gopher://cytogerm.biochem.mpg.de at the: OPEN URL question.

- Programs to adress the CytometryNet Gopher node
   Versions of the GOPHER, HGOPHER, FTP and MOSAIC programs are in
all
likelihood available in most computer centers. In any case the help
of the local computer center is required to set up the correct node
addresses of these programs.

   Changing the "cytogerm" name to respective cytometric society name
e.g."cytoesacp, cytofrance, cytohong, cytoiber, cytoindia, cytoisac,
cytoital, cytojapan, cytoruss, cytouk" in the various files (GINFO,
HELP etc) in addition to providing the respective text files:
secretar.txt, executiv.txt, council.txt etc. will adapt the node
according to the respective needs.

   Please, communicate the exact address of any installed
CytometryNet nodes to the E-mail addresses of all linked societies
to assure the appropriate links.

With best regards

   G.Valet

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