SEVENTH FRAMEWORK PROGRAMME

Research Infrastructures

# Deliverable 3.2.2

## Periodic report on the use of wiki and surveys


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|---|---|
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# Section 1: Summary of Deliverable

## Summary

At the start of the project, it was envisaged that user involvement in the VRC could be significant part of developing the WeNMR community. As has been reported in the periodic reports and at the WeNMR review meetings, however, the involvement of users in the VRC and the contribution of documentation to the website by users has been very limited. This has led to a paradigm shift in how the documentation for the available tools and services should be provided and an effort has been made by the WeNMR partners over the last period to provide tutorials and documentation for as much of the services as possible.

In this deliverable, an overview of the currently available documentation on the WeNMR site is presented, as well as the user and stakeholder surveys that were held.

# Section 2: Wiki, Getting Started and Tutorial usage

## Summary

As explained in March 2012 in Deliverable 3.2.1, one of the efforts made to make the information on the WeNMR website more accessible to users was to bring all documentation pages together in the "Wiki" section of the website. That merger was completed just before the delivery of Deliverable 3.2.1 and while the menu structure of the website still allows separate browsing of these sections, they are all part of the same system, are interlinked often and therefore now provide a much more homogenous user experience.

Interestingly, this merger has been accompanied by an significant increase in page views (see below), concomitant with a continued increase in WeNMR users as has been reported in the period report over period 2.

All in all, it is clear that the "Tutorials" as well as the "Getting started" pages on the WeNMR website are an important aspect of the WeNMR service, as they provide starting points for new users and references for usage by more experienced WeNMR users.

In the near future, the website will be moved to the Drupal 7 content management system, With that new website, the Tutorials, Documentation, but also the Help Desk and other sections of the website will be further integrated, such that all relevant information is available directly from the services page, making it easier to browse and which thus should further enhance the usage experience of the WeNMR website.

## Analysis of usage of documentation pages

The documentation pages (the combined Wiki and Getting Started sections) contain a total of 73 (compared to 63 in March 2012) pages, which have seen a total of over 52.000 views (compared to 16.000 views in March 2012). The top 10 of the currently most viewed pages:

| Page title | Views |
|---|---|
| The WeNMR web Portals for Structural Biology | 1,762 |
| 3D-DART User Manual | 1,631 |
| VO registration troubleshooting | 1,631 |
| Getting started with CcpNmr format converter | 1,570 |
| Getting started with AMBER | 1,450 |
| Getting started with MDD NMR | 1,414 |
| HADDOCK scriptorium - chemical shift scoring | 1,406 |
| Getting started with HADDOCK | 1,351 |
| Introduction to Biomolecular NMR spectroscopy and WeNMR | 1,293 |
| Getting started with CYANA | 1,292 |

A table with the views of all pages in this section of the VRC can be found in the supplementary information 1 at the end of this deliverable.

This set of most viewed pages contains important information about how the VRC is used by its visitors. The fact that the two main introductory pages on the VRC are among the most viewed pages (including the top one), seem to shows that new users are visiting those pages first to get an introduction to the project. The other pages largely correspond to the getting started pages of the most used web portals of the VRC.

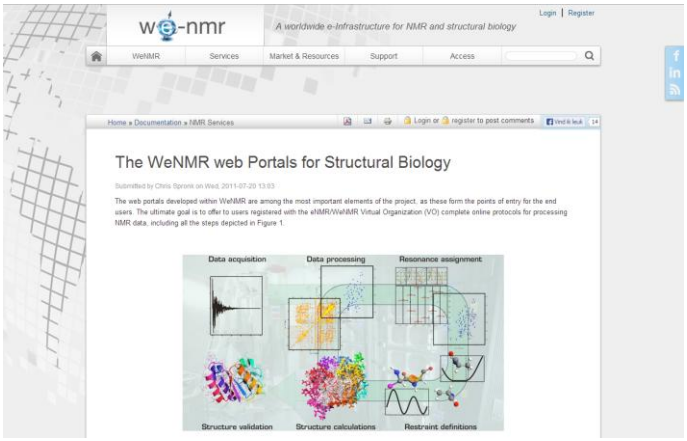


*Figure: The WeNMR web Portals for Structural Biology page.*

## Analysis of usage of Tutorial pages

The Tutorial section contains a total of 60 pages (compared to 51 in March 2012), which have seen a total of over 42.000 views (compared to 14.000 views in March 2012). The top 10 of the currently most viewed pages:

| Page title | Views |
|---|---|
| MD simulations using the GROMACS web server | 3099 |
| HADDOCK web server tutorial | 2399 |
| CS-ROSETTA web server tutorial | 2084 |
| MaxOCC usecase | 1798 |
| Generating the Necessary Restraint Files for running HADDOCK Manually | 1606 |
| Using and contributing to the WeNMR VRC | 1365 |
| Quick gLite Middleware Deployment HOW-TO for WeNMR | 1323 |
| Structure refinement using Restrained Molecular Dynamics (RMD) with the AMBER package | 1175 |
| Xplor-NIH use case with a User Interface | 1046 |
| Restrained Molecular Dynamics (RMD) refinement of structures including RDC's | 1023 |

A table with the views of all pages in this section of the VRC can be found in the supplementary information 2 at the end of this deliverable.

Among the top viewed tutorials are those corresponding to the top portals that have the most number of active users or generate the most number of grid jobs (as was presented in the 1st and 2nd periodic reports) and thus seem to be very popular among the WeNMR community.

As expected the list now includes the tutorial for the CS-ROSETTA, which was added about a year ago and which, due to the high popularity of the web portal is already ranking as the third most viewed tutorial in the list, despite having been added later to the VRC than most others (see also D3.2.1).

# Section 3: Surveys

## Summary

To be able to monitor the needs and issues of users and other stakeholders when using the WeNMR VRC and services, there have been three surveys, one dedicated for concerns regarding the security of the Grid usage, one directed at Industry, and one general user survey.

The results of the user survey were mentioned already in D3.2.1 and are also available on the WeNMR website (http://www.wenmr.eu/wenmr/wenmr-user-survey-2011).

As was also reported to the EU in a letter about the lack of interest from industry in WeNMR products, on May 1st, 2013, WeNMR targeted the industrial structural biology user community with survey to collect more feedback, but the final number of responses was relatively poor (despite initially receiving some responses as reported in D3.2.1) and indicative for the general lack of interest from industry the project has seen.

The same was true for the survey on security of the Grid usage, which also had an emphasis on industrial usage, were we envisaged security to be one of the main issues. Remarkably, the responses we did receive indicated that the current security measures in place (so-called hydra encryption services), together with the provision of a simple method for secure access, would largely satisfy security concerns of potential industrial users.

## Supplementary information 1: Wiki / Getting Started page usage

This is the full list of usage of all Getting Started and Wiki pages, as of May 15, 2013. The current status is available at: http://www.wenmr.eu/wenmr/all-documentation-articles

| Page Title | Categories | Created | Last editing activity | Views |
|---|---|---|---|---|
| The WeNMR web Portals for Structural Biology | NMR Services, Grid Services | 7/20/2011 13:03 | *1 year 43 weeks* ago | 1,762 |
| 3D-DART User Manual | 3D-DART | 3/14/2011 21:19 | *1 year 10 weeks* ago | 1,631 |
| VO registration troubleshooting | enmr.eu VO, grid, personnal certificate,Registration, web browser | 3/16/2011 15:20 | *8 weeks 5 days* ago | 1,631 |
| Getting started with CcpNmr format converter | FormatConverter | 7/20/2011 12:14 | *1 year 6 weeks* ago | 1,570 |
| Getting started with AMBER | Amber | 7/20/2011 12:17 | *1 year 11 weeks* ago | 1,450 |
| Getting started with MDD NMR | MDD | 7/20/2011 10:54 | *1 year 43 weeks* ago | 1,414 |
| HADDOCK scriptorium - chemical shift scoring | analysis, chemical shifts, Haddock,HADDOCK, scoring | 6/6/2012 14:20 | *12 weeks 6 hours*ago | 1,406 |
| Getting started with HADDOCK | HADDOCK | 7/20/2011 10:15 | *1 year 43 weeks* ago | 1,351 |
| Introduction to Biomolecular NMR spectroscopy and WeNMR | About NMR | 7/20/2011 12:36 | *1 year 43 weeks* ago | 1,293 |
| Getting started with CYANA | CYANA | 7/20/2011 10:32 | *1 year 38 weeks* ago | 1,292 |
| Getting started with GROMACS | GROMACS | 12/7/2011 16:47 | *6 weeks 3 days* ago | 1,279 |
| Getting started with CS-ROSETTA | CS-ROSETTA | 7/20/2011 10:36 | *48 weeks 5 hours*ago | 1,226 |
| perusal option: save your job output before reaching walltime | gLite, gLite, jdl, perusal, walltime | 7/20/2011 14:08 | *1 year 28 weeks* ago | 1,202 |
| Getting started with 3D-DART | 3D-DART | 3/6/2012 14:22 | *1 year 10 weeks* ago | 1,135 |
| 3D-DART Example Gallery | 3D-DART | 3/14/2011 22:42 | *2 years 9 weeks* ago | 1,130 |
| Usefull link for GRID related work (mainly for site admin) | Grid Services, accounting, admin, grid,monitoring | 10/6/2011 18:33 | *1 year 31 weeks* ago | 1,040 |
| Getting started with UNIO | UNIO | 7/20/2011 12:20 | *1 year 43 weeks* ago | 1,020 |
| Getting started with TALOS+ | Talos | 7/20/2011 10:51 | *1 year 43 weeks* ago | 913 |
| Automated grid submission and polling daemons | About GRID technology, gLite | 11/2/2011 11:14 | *1 year 28 weeks* ago | 888 |
| Getting started with XPLOR-NIH | Xplor-NIH | 7/20/2011 10:17 | *1 year 43 weeks* ago | 862 |
| Getting started with MARS | MARS | 7/20/2011 10:48 | *1 year 43 weeks* ago | 857 |
| Testing accessibility of all SE from all CE (for grid admin) | gLite, grid admin SE CE | 5/4/2011 19:17 | *2 years 1 week* ago | 765 |

| Page Title | Categories | Created | Last editing activity | Views |
|---|---|---|---|---|
| eToken with Xen (grid admin) | gLite, Xen etoken | 5/13/2011 17:57 | *1 year 14 weeks* ago | 750 |
| Ensemble Optimization Method | EOM, Eom, GAJOE, RANCH | 7/22/2011 13:32 | *1 year 42 weeks* ago | 684 |
| About CING | CING | 3/7/2011 16:42 | *1 year 11 weeks* ago | 676 |
| Things to do to "add" a new grid site admin | Grid Services, site admin | 10/7/2011 13:06 | *1 year 31 weeks* ago | 670 |
| Getting Started with CcpNmr Analysis | CcpNmr Analysis | 3/6/2012 16:24 | *1 year 1 week* ago | 669 |
| About HADDOCK | complex, DNA, docking, HADDOCK,ligand, Nucleic acid, protein, RNA | 2/21/2011 16:34 | *2 years 9 weeks* ago | 645 |
| Useful interface predictors for HADDOCK | Haddock, HADDOCK, interface predictors | 6/11/2012 9:13 | *22 weeks 2 days* ago | 643 |
| About 3D-DART | 3D-DART | 2/25/2011 16:19 | *1 year 11 weeks* ago | 638 |
| Counting the WeNMR members per country. | gLite, grid vo WeNMR user member country user list | 5/4/2011 21:36 | *2 years 1 week* ago | 633 |
| The EGI services API wiki page | Grid Services, documentation, EGI, gLite | 8/23/2011 11:39 | *1 year 38 weeks* ago | 633 |
| Grid deployment scripts (for site admin) | deployment, gLite, gLite, site-admin,software | 8/2/2011 12:12 | *1 year 41 weeks* ago | 616 |
| About FormatConverter | conversion, format, FormatConverter, NMR | 7/13/2011 9:21 | *1 year 6 weeks* ago | 608 |
| Getting started with iCing | CING | 2/29/2012 19:03 | *1 year 11 weeks* ago | 606 |
| jobs - user friendly utility to manage the users jobs | gLite | 8/23/2011 19:19 | *13 weeks 23 hours*ago | 605 |
| CheckGRID - Utility to test and publish GRID resources (for site admin) | gLite | 8/23/2011 18:51 | *1 year 38 weeks* ago | 591 |
| About Talos | dihedral angle prediction, protein,secondary chemical shifts, Talos, Talos | 7/12/2011 17:13 | *1 year 44 weeks* ago | 579 |
| Getting started with CNS | CNS | 3/6/2012 14:28 | *1 year 10 weeks* ago | 573 |
| The CS-ROSETTA web server manual | CS-ROSETTA | 3/6/2012 14:32 | *1 year 10 weeks* ago | 573 |
| About CS-Rosetta | chemical shifts, CS-ROSETTA, NMR,structure calculations | 7/13/2011 9:16 | *1 year 44 weeks* ago | 571 |
| JobControl - utility to manage multi jobs submission (for site admin) | gLite | 8/23/2011 19:09 | *1 year 38 weeks* ago | 568 |
| About CcpNmr Analysis | about, CcpNmr Analysis | 3/6/2012 16:02 | *1 year 1 week* ago | 560 |
| Ab initio shape determination by simulated annealing using a single phase dummy atom model | ab initio, DAMMIN, Dammin | 7/22/2011 13:50 | *1 year 42 weeks* ago | 549 |
| Getting started with FANDAS | FANDAS | 5/31/2012 12:54 | *50 weeks 1 day* ago | 542 |
| FANDAS web server documentation | FANDAS | 4/25/2012 10:28 | *1 year 3 weeks* ago | 537 |
| Grid User Interfaces | Grid Services | 7/7/2011 8:52 | *1 year 45 weeks* ago | 512 |
| HADDOCK scriptorium - geometrical properties of a molecule | HADDOCK | 5/31/2012 15:33 | *49 weeks 2 days* ago | 508 |

| Page Title | Categories | Created | Last editing activity | Views |
|---|---|---|---|---|
| About CNS | CNS, NMR, structure calculation, X-ray | 7/13/2011 9:11 | *1 year 44 weeks* ago | 493 |
| About Xplor-NIH | Molecular Dynamics, Monte Carlo, NMR restraints, structure calculation, Xplor-NIH | 7/15/2011 8:51 | *1 year 42 weeks* ago | 488 |
| out GeNMR | chemical shifts, GeNMR, GeNMR,NOEs, protein, s tructure | 2/24/2012 0:13 | *1 year 11 weeks ago* | 488 |
| Small angle X-ray scattering | About SAXS, complexes, nucleic acids, proteins, SAXS, solution scattering | 7/22/2011 13:10 | *1 year 42 weeks ago* | 486 |
| About Antechamber | AMBER, Antechamber, Organic molecules | 7/13/2011 9:36 | *1 year 43 weeks ago* | 477 |
| Automatic test of enmr.eu jobs on all supporting CEs. | enmr.eu, gLite, grid, jobs, site admin,test | 2/2/2012 13:39 | *1 year 15 weeks ago* | 471 |
| Modelling of multisubunit complexes | rigid body modelling, SASREF,Sasref | 7/22/2011 13:59 | *1 year 42 weeks ago* | 466 |
| About AMBER | Amber, Force Fields, Molecular Dynamics, Refinement | 7/12/2011 17:06 | *1 year 24 weeks ago* | 465 |
| Ab initio shape determination by simulated annealing using a multiphase dummy atom model | ab initio, MONSA, Monsa | 7/22/2011 13:55 | *1 year 42 weeks ago* | 462 |
| About MaxOCC | Maximum Occurrence of a conformer,MaxOCC, NMR, SAXS | 7/13/2011 9:38 | *1 year 43 weeks ago* | 455 |
| About AutoAssign | assignment, AutoAssign, automated,ch emical shifts, NMR, resonance | 7/13/2011 9:07 | *1 year 44 weeks ago* | 454 |
| Evaluation of the solution scattering from macromolecules with known atomic structure and fitting to experimental data | CRYSOL, Crysol | 7/22/2011 13:41 | *1 year 42 weeks ago* | 426 |
| About MARS | automated assignment, chemical shifts, MARS, NMR, resonance | 7/13/2011 9:24 | *1 year 44 weeks ago* | 415 |
| ResProx documentation | equivalent resolution, resprox,ResProx | 2/27/2012 22:45 | *1 year 11 weeks ago* | 397 |
| About UNIO | automated assignment, NMR,resonance, structure calculation,UNIO | 7/13/2011 9:28 | *1 year 44 weeks ago* | 397 |
| FCC Clustering | clustering, contacts, HADDOCK,protein complex | 10/13/2012 9:32 | *30 weeks 6 days* ago | 390 |
| About RCI (Random Coil Index) | flexibility, protein, Random Coil Index,RCI, RCI | 2/24/2012 0:54 | *1 year 11 weeks ago* | 371 |
| RCI documentation | flexibility, protein, RCI, RCI | 2/24/2012 1:04 | *1 year 11 weeks ago* | 303 |
| About CS23D | chemical shift, CS23D, CS23D,protein, structure | 2/23/2012 23:16 | *1 year 11 weeks ago* | 301 |
| About ResProx | equivalent resolution, protein,ResProx, structure | 2/24/2012 23:00 | *1 year 11 weeks ago* | 300 |
| CS23D documentation | chemical shift, CS23D, CS23D,protein, structure | 2/23/2012 23:43 | *1 year 11 weeks ago* | 266 |
| GeNMR documentation | generation, GeNMR, GeNMR,structure | 2/24/2012 0:33 | *1 year 11 weeks ago* | 215 |
| HADDOCK Scriptorium - Producing restraints for gapped structures | Chain Break, CNS, docking, Gap,Haddock, HAD DOCK, Python, TBL File | 3/17/2013 16:32 | *8 weeks 4 days ago* | 158 |
| PDB Cleaner - Web resource to 'clean' PDB files before HADDOCKing | docking, Haddock, HADDOCK, PDB Cleaner, PDB file | 3/20/2013 4:36 | *8 weeks 2 days ago* | 153 |

## Supplementary information 2: Tutorial page usage

This is the full list of usage of all Getting Started and Wiki pages, as of May 15, 2013. The current status is available at: http://www.wenmr.eu/wenmr/tutorials-and-use-cases/all-wenmr-tutorials

| Page Title | Categories | Created | Last editing activity | Views |
|---|---|---|---|---|
| MD simulations using the GROMACS web server | GROMACS | 4/10/2012 12:32 | *1 year 5 weeks ago* | 3099 |
| HADDOCK web server tutorial | HADDOCK | 3/8/2011 9:57 | *2 years 10 weeks ago* | 2399 |
| CS-ROSETTA web server tutorial | chemical shifts, CS-ROSETTA, CS-Rosetta, structure calculations, Talos, WeNMR | 4/20/2012 11:45 | *1 year 3 weeks ago* | 2084 |
| MaxOCC usecase | MaxOCC | 3/18/2011 16:02 | *1 year 51 weeks ago* | 1798 |
| Generating the Necessary Restraint Files for running HADDOCK Manually | HADDOCK | 3/18/2011 15:01 | *2 years 8 weeks ago* | 1606 |
| Using and contributing to the WeNMR VRC | General Tutorials | 10/26/2011 9:13 | *1 year 18 weeks ago* | 1365 |
| Quick gLite Middleware Deployment HOW-TO for WeNMR | BDII, CE, certificate, configuration, DGAS, gLite, GRID Tutorials, HLR, jdl, job submission, release, sensor, service,voms, X.509, yaim | 3/14/2011 21:26 | *3 weeks 3 days ago* | 1323 |
| Structure refinement using Restrained Molecular Dynamics (RMD) with the AMBER package | Amber, AMBER, Molecular Dynamics, Refinement, RMD,structure calculations | 3/11/2011 12:43 | *1 year 45 weeks ago* | 1175 |
| Xplor-NIH use case with a User Interface | paramagnetic restraints, paramagnetism, structure calculation,UI, Xplor-NIH | 3/18/2011 18:00 | *1 year 38 weeks ago* | 1046 |
| Restrained Molecular Dynamics (RMD) refinement of structures including RDC's | Amber, Molecular Dynamics, RDC, Refinement, RMD,structure calculations | 6/28/2011 15:16 | *1 year 43 weeks ago* | 1023 |
| Quick gLite HOW-TO for WeNMR users | CA, certificate, enmr.eu VO, GRID Tutorials, jdl, job submission, proxy, UI | 3/14/2011 16:58 | *3 weeks 6 days* ago | 995 |
| A Case Study: Preparing Input Files for a Manual HADDOCK Run | HADDOCK | 3/18/2011 15:04 | *2 years 8 weeks* ago | 993 |
| How to Prepare PDB Files for Running HADDOCK Manually | HADDOCK, manual Haddock, protein docking | 3/11/2011 12:25 | *2 years 8 weeks* ago | 982 |
| Xplor-NIH calculation with paramagnetic restraints using the web portal | paramagnetic restraints, paramagnetism, structure calculation, web browser, Xplor-NIH, Xplor-NIH | 3/18/2011 17:46 | *1 year 48 weeks* ago | 980 |
| GROMACS command line use case example for calculations on the GRID | example, grid submission, GROMACS, gromacs,Molecular Dynamics, use case | 3/10/2011 16:16 | *1 year 4 weeks* ago | 966 |
| CYANA 3.0 Use Case Examples | CYANA | 3/10/2011 16:39 | *2 years 9 weeks* ago | 912 |
| CNS use case example for running on the | CNS, CNS, grid | 3/9/2011 | *2 years 10 weeks* ago | 835 |

| Page Title | Categories | Created | Last editing activity | Views |
|---|---|---|---|---|
| Grid | submission, Refinement, structure calculations | 10:15 | | |
| MDDNMR webportal server tutorial | MDD | 3/10/2011 17:37 | *2 years 9 weeks* ago | 830 |
| Gromacs on the GRID | grid submission, GROMACS, gromacs, Molecular Dynamics, tutorial | 3/10/2011 19:09 | *2 years 5 weeks* ago | 823 |
| Restrained Molecular Dynamics (RMD) refinement of structures including Disulfide bond | Amber | 9/19/2011 16:39 | *1 year 34 weeks* ago | 715 |
| How to use the WeNMR Talos+ webserver | backbone dihedral angles, chemical shifts, restraints, Talos, Talos+ | 4/19/2012 11:54 | *1 year 3 weeks* ago | 697 |
| MDDNMR Use Case Examples | MDD | 3/14/2011 17:37 | *2 years 9 weeks* ago | 651 |
| Maximum Occurrence calculations with the MaxOcc web portal | Maximum Occurrence, MaxOCC,PCS, RDC, SAXS | 8/19/2011 18:12 | *1 year 38 weeks* ago | 626 |
| Video tutorials - Contributing content | General Tutorials | 1/10/2012 10:36 | *1 year 18 weeks* ago | 623 |
| AnisoFIT webserver tutorial | AnisoFIT | 5/10/2012 18:27 | *1 year 5 days* ago | 621 |
| CYANA wiki tutorials | CYANA | 3/8/2011 12:34 | *2 years 10 weeks* ago | 611 |
| PROSA 6.4 Use Case Example | PROSA | 3/14/2011 17:25 | *2 years 9 weeks* ago | 603 |
| MARS Use Case Example | MARS | 3/14/2011 17:10 | *2 years 8 weeks* ago | 601 |
| CYANA demos | CYANA | 3/8/2011 13:30 | *2 years 10 weeks* ago | 590 |
| Develop a charge distribution and automatically generate input force field parameters for most organic molecules. | Antechamber, Charge distribution,Force Fields, Organic molecules | 12/20/2011 12:41 | *1 year 21 weeks* ag | 547 |
| HADDOCK portal - easy interface use case | HADDOCK | 3/3/2012 6:20 | *1 year 10 weeks ago* | 542 |
| MDD-NMR Job Submission Demo | MDD | 3/8/2011 13:34 | *2 years 10 weeks ago* | 521 |
| NUSSAMPLER Use Case Example | MDD | 3/14/2011 17:43 | *2 years 9 weeks ago* | 504 |
| VO registration troubleshooting | certificate, GRID Tutorials, SSL error, TLS,voms, X.509 | 3/14/2011 19:03 | *2 years 8 weeks ago* | 499 |
| INFIT 2.0 Use Case Example | INFIT | 3/14/2011 16:31 | *2 years 9 weeks ago* | 466 |
| CcpNmr Analysis Beginners' Course from CCPN | CcpNmr Analysis, tutorial | 3/6/2012 15:57 | *1 year 10 weeks ago* | 431 |
| HADDOCK portal - guru interface use case | HADDOCK | 3/3/2012 6:24 | *4 weeks 25 min* ago | 428 |
| Almost | Almost | 5/10/2012 18:09 | *1 year 3 days* ago | 427 |
| Converting NmrView to XEASY - with test data | FormatConverter | 4/6/2012 17:24 | *1 year 3 weeks ago* | 419 |
| GARANT 2.0 Use Case Example | GARANT | 3/14/2011 16:41 | *2 years 9 weeks ago* | 405 |
| MAPPER 2.0 Use Case Example | MAPPER | 3/14/2011 17:29 | *2 years 9 weeks* ago | 403 |

| Page Title | Categories | Created | Last editing activity | Views |
|---|---|---|---|---|
| How to use the NRG-CING website. | CING | 11/7/2011 13:05 | *1 year 6 weeks* ago | 403 |
| CS-ROSETTA webportal use case example: UVRC | CS-ROSETTA | 3/3/2012 7:56 | *1 year 3 weeks* ago | 385 |
| FormatConverter walk-through | FormatConverter | 4/5/2012 14:32 | *1 year 6 weeks* ago | 382 |
| Video tutorial - CYANA to CCPN project | FormatConverter | 4/5/2012 16:00 | *1 year 6 weeks* ago | 370 |
| CcpNmr Analysis Structure Course from CCPN | CcpNmr Analysis, tutorial | 3/6/2012 15:44 | *1 year 10 weeks* ago | 367 |
| CNS online tutorials (version 1.3) | CNS | 3/3/2012 7:34 | *1 year 10 weeks* ago | 327 |
| Modelling DNA from a base-pair step parameter file | 3D-DART | 3/3/2012 6:56 | *1 year 10 weeks* ago | 325 |
| Exporting from existing CCPN project | FormatConverter | 4/5/2012 14:52 | *1 year 6 weeks* ago | 305 |
| CcpNmr Analysis Solid State Course from CCPN | CcpNmr Analysis, tutorial | 3/6/2012 15:49 | *1 year 10 weeks* ago | 295 |
| How to use the CING report. | CING | 4/5/2012 11:05 | *1 year 4 weeks ago* | 293 |
| Modelling DNA using local bend angle definitions | 3D-DART | 3/3/2012 6:55 | *1 year 10 weeks ago* | 288 |
| Modelling a localized 30 degrees bend in in a 20 nucleotide BDNA sequence | 3D-DART | 3/3/2012 6:51 | *1 year 10 weeks ago* | 263 |
| Protein NMR - A Practical Guide | CcpNmr Analysis,tutorial | 3/6/2012 15:40 | *1 year 10 weeks ago* | 260 |
| Modelling a smooth 60 degrees bend in a 20 nucleotide BDNA | 3D-DART | 3/3/2012 6:49 | *1 year 10 weeks ago* | 259 |
| CNS online tutorials (version 1.2) | CNS | 3/3/2012 7:33 | *1 year 10 weeks ago* | 250 |
| Running other CNS scripts on the Grid | CNS | 3/3/2012 7:24 | *1 year 10 weeks ago* | 247 |
| Modelling a smooth 60 degrees bend in a 20 nucleotide BDNA, but of different directions | 3D-DART | 3/3/2012 6:53 | *1 year 10 weeks ago* | 230 |
| 3D-DART user manual | 3D-DART | 3/3/2012 6:29 | *1 year 10 weeks ago* | 164 |