

CNI User Rules

Preamble

The Combinatorial NeuroImaging (CNI) at the Leibniz Institute for Neurobiology (LIN) in Magdeburg combines the imaging infrastructure for non-invasive human imaging, translational animal imaging and high resolution light and electron microscopy.

It is our declared goal to offer an efficient neuroimaging infrastructure and dialogue platform to local and external users, thereby promoting integrated approaches especially in learning and memory research.

(1) Equipment

The CNI Core Facility provides a wide range of state-of-the-art equipment for non-invasive human imaging, translational small animal imaging and high resolution light and electron microscopy.

Detailed descriptions of all CNI devices are available on our website www.lin-magdeburg.de/cni.

(2) Access

The devices of the CNI can be used by the following user groups for scientific studies:

- LIN employees
- employees of the Magdeburg University Otto von Guericke and other research institutes in Magdeburg
- users from academic organizations in Germany and abroad.

Studies are approved according to the criteria given under *Project planning and process*. Bookings of all devices are made on a *first-come-first-served-basis*.

CNI operating hours are from Monday to Friday, 8 a.m. to 4 p.m.. Users authorized by the CNI can also use the devices outside of regular business hours. All equipment can only be used after an appropriate introduction and safety instruction by CNI staff.

15 % of measuring time related to our operating hours are reserved for external users.

Generally, the use of the CNI equipment is possible for industry and business. In this case special arrangements have to be concluded.

(3) Fees

The users bear the costs for the projects conducted in accordance with the real expenses. Invoices are issued by the LIN, the owner and operator of all CNI devices.

Invoicing shall be based on booked measuring times or in case of longer use on the actual duration of use. This includes preparation and follow-up at the device.

All fees for the use of the CNI equipment are specified in *Appendix I*.

If the LIN has a documented interest in a study funding by the LIN is possible. In this case, costs are cleared internally, an invoice is not issued. The PI will be notified by the CNI.

(4) Study application and authorization

For every study an application specifying personal and project related data is required. Additionally, further information on financing and other relevant issues (ethics vote, animal test proposals, BfArM-application etc.) as well as the acceptance of these user rules are obligatory.

The study application has to be filled in online on the CNI homepage (www.lin-magdeburg.de/cni). Additionally, it can be downloaded as PDF file.

A new study application for a running study is necessary, if

- the measuring time is exceeded by more than 10 %,
- the funding changes, particularly in case you need more measuring time,
- you want to address a new question/topic,
- persons in charge of the project change.

(5) Booking rules

Measurements can only be made by persons who have been properly instructed and trained on the respective device and who have signed the safety instructions.

The web-based booking system EGroupware is used to organize and schedule measuring times according to the prioritization you can find under *Access* and in consultation with the CNI.

Reserved measuring times have to be used efficiently. In case reserved times have to be canceled or rescheduled this has to be reported to the CNI immediately and not later than 2 working days, for SPECT/CT 5 working days, for life cell imaging 6 hours before planned measurements. Later cancellations usually lead to a full invoicing of the costs.

(6) User support

The CNI provides support and consulting services to its users in the planning phase, during the project realization as well as during the evaluation of the studies in all specific technical and experimental questions.

The contact data of the CNI staff are listed in *Appendix II* and on the CNI homepage www.lin-magdeburg.de/cni.

(7) Project plan and process

To apply for a study it is necessary to fill in the study application mentioned above including a short project draft consisting of work schedule, previous work, experiences, hypotheses, required technology and support from service staff, measuring methods to be used and animal species and number of animals, if applicable.

This project draft is evaluated by two scientists, depending on the required modalities. On this basis, a decision concerning the feasibility of the study with a reasonable effort involved as well as its consistency with the scientific profile of the LIN is taken. The CNI designates a contact person for the study.

Main criteria for the decision are:

- scientific quality of the concept
- feasibility (availability of adequate equipment, required technical support, review of legal issues),
- ratio of effort and chance of success,
- financing.

(8) Data export and storage

The CNI provides storage media only limited in time. The project head is in charge of data export and storage. The required storage media have to be provided by the users. Data shall be saved during measurement or immediately thereafter. In principle, data will be deleted without prior notification after 14 days.

(9) General user guidelines

The CNI provides highly specialized and cost intensive devices. Incorrect use may cause serious health problems. Therefore, all devices and laboratory equipment have to be used responsibly and carefully. Malfunctions of a device have to be reported immediately to the CNI staff. Only authorized staff may perform repair or modification actions.

In addition to these user rules, the laboratory rules specific to the modality used apply.

(10) Acknowledgements

In publications such as bachelor, master and doctoral theses, all users are obliged to honor the CNI through citation within the Acknowledgements section:

„We acknowledge the support of the Combinatorial NeuroImaging Core Facility at the LIN in Magdeburg.”

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Administrative Head of the LIN

Prof. Stefan Remy
Scientific Director of the LIN

Dr. André Brechmann
CNI Coordinator for Systemic Imaging

Dr. Werner Zuschratter
CNI Coordinator for Microscopy

CNI User Rules - Appendix I: Fees

Fees (per hour)

Microscopes		
	Unsupervised operation*	Service operation*
Confocal Laserscanning Microscopes, Light-Sheet Imaging	25.00 €	60.00 €
SP-5 STED (2 channel, TiSphr laser) SP8-STED (3D option, 2 depletion lasers)	50.00 €	100.00 €
TEM	80.00 €	130.00 €
FLIM	*	100.00 €
Workstations (Imaris, deconvolution; FLIM and FRET analysis)	15.00 €	40.00 €

MRI (Human Imaging)		
	Unsupervised operation*	Service operation*
3 T	100.00 €	150.00 €
7 T	200.00 €	250.00 €

Small Animal Imaging		
	Unsupervised operation*	Service operation*
9.4 T Animal Scanner	50.00 € excl. costs for animals, narcotic gases etc.	100.00 €
SPECT/CT	50.00 € excl. radionuclide and tracer costs	100.00 €

EEG		
	Unsupervised operation*	Service operation*
EEG	10.00 €	60.00 €

All prices given in these user rules are net prices plus value added tax.

Every user has an appropriate time slot for introduction to the respective device(s) for free. Support and services beyond this will be charged based on time and effort.

*Unsupervised and service operation:

Service operation: All measurements and preparations of measurements are done by CNI staff.

Unsupervised operation: The users work on the instruments without direct supervision.

External users can book STED microscopes exclusively in the service operation modus.

FLIM and FRET systems are exclusively provided on a service operation basis.

CNI User Rules - Appendix II: Contact Persons

3 T, 7 T and small animal scanner 4.7 T

Scientific staff:

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9.4T Small Animal MRI

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SPECT/CT

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