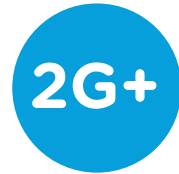




MOTOR CRC
1451

**1st CRC1451 Early Career
Researcher & Postdoc Retreat
May 31 to June 1, 2022
Programme**

The event will take place under 2G+ conditions (vaccinated and/or recovered and rapid test updated on arrival).



Venue


Van der Valk Hotel
Krefelder Strasse 169
47447 Moers
<https://moers.vandervalk.de>

Zoom in for Hybrid

<https://uni.koeln/7EQBJ>



Tuesday, May 31

5:00 pm	Check-in
6:30 pm	Welcome & Introduction T. Korotkova, A. Büschges, ECR Speaker
7:00 pm	 Dinner
8:00 pm	Team Building Event A. Yeldesbay, L. Wolff

Wednesday, June 1

8:00 am	Introduction T. Korotkova, A. Büschges, C. Wegscheid
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Session 1: Identifying Critical Genes, Molecules, and Networks Chair: T. Wolfenstetter, H.M. Jahn

8:15 am	A01 - Understanding plastin 3 and its interactors in motor neuron function and plasticity in health and disease L. Wolff, T. Schmidt
8:30 am	A02 - Dysregulation of the autophagy-endolysosomal system as a putative pathological mechanism behind the motor control dysfunction M. Tolve, J. Tutas
8:45 am	A03 - Motor learning-induced plasticity of cerebellar Purkinje neuron connectivity H.M. Jahn
9:00 am	A04 - The role of the reward system in obesity- and ageing-associated changes of motor behaviours H. van den Munkhof, R. Scheffer
9:15 am	A05 - Neural mechanisms underlying motor flexibility in fruit fly walking A. Pierzchlińska, M. Thiel
9:30 am	A07 - Role of synaptic lipid modulated cortical excitability in motor control - importance for brain disorders L.-J. Kepser
9:45 am	Junior Research Group Gatto - Sensorimotor Adaptation S. Maças, A. Galvão

10:00 am  **Break**

Session 2: Key Mechanisms of Motor Control across Lifespan

Chair: A. Yeldesbay, P. Vogel

10:30 am	B01 - Developmental mechanisms affecting motor skills and motor control A. Merseburg, P. Vogel
10:45 am	B02 - Neural network maturation underlying top-down motor control and movement initiation in childhood and adolescence T. Heinen
11:00 am	B03 - Modelling neural network dynamics underlying movements in health and disease A. Yeldesbay
11:15 am	B04 - Motor control under uncertainty in the healthy human brain A. Zabicki
11:30 am	B05 - Single case predictions of motor abilities in health and disease V. Komeyer

12:00 pm



Lunch

Session 3: Motor Control (Dys-)Function in Neuropsychiatric Disorders (1)

Chair: L. Hensel, H. Walter

1:00 pm	C01 - Identification and selective stimulation of motor recovery-related functional networks after experimental stroke S. Vlachakis, A. Kalantari
1:15 pm	C03 - Striatal dopamine and volitional motor control: vigour, planning, and incentive salience M. Banwinkler, A. Asendorf
1:30 pm	C04 - Apraxia in Alzheimer's disease: Plastic reorganisation of praxis networks in response to chronically progressive dysfunction E. Jäger

1:45 pm



Break

Session 4: Motor Control (Dys-)Function in Neuropsychiatric Disorders (2)

Chair: S. Maçãs, A. Galvão

2:15 pm	C05 - Reorganisation of the motor system following stroke C. Tschepel
2:30 pm	C06 - Major depression as a transient functional lesion model of motor control L. Rigoux

2:45 pm

C07 - Reorganisation of the motor system following stroke
L. Wehmeyer

Session 5: Cross-linking projects: Dopamin and Modelling

Chair: N. Rautenberg, V. Küppers

3:00 pm

X01 - Rehabilitation of motor deficits and restoration of functional networks after mild Traumatic Brain Injury (mTBI) by transcranial Direct Current Stimulation (tDCS)
N. Rautenberg

3:15 pm

X02 - The interplay between sleep, depressivity and motor performance
V. Küppers

3:30 pm

X03 - Predicting the effects of deep brain stimulation of the subthalamic nucleus (STN-DBS) on gait, falls and Freezing of Gait (FOG) in patients with Parkinson's disease
C. Semmler

3:45 pm

X04 - Modulation of cortical networks for predictive motor control by the subthalamic nucleus: from functional imaging to deep brain stimulation and recording
A. Sauter

4:00 pm

Informal Discussion

6:00 pm



Dinner

7:30 pm

Team Building Event
T. Korotkova, C. Wegscheid

8:30 pm

Poster Session (Bettenkampersaal)

Directions:

Car (About 40 minutes from Cologne):

- › Van der Valk Hotel Moers is located directly at the interchange Moers and thus offers a direct connection to the A40 (Venlo - Essen) and the A57 (Nijmegen - Köln).

Public Transport

From Düsseldorf or Köln (Hbf./main station):

- › Take the train RE1 direction “Hamm (Westf)” and exit the station “Duisburg Hbf”.

From Duisburg (Hbf./main station):

- › Option 1: Take the bus SB10 in direction to “Kamp-Lintfort Neues Rathaus” and exit the station “Moers Biefang” (5 min. walk from there to the hotel).
- › Option 2: Take the bus SB30 in direction to “Kamp-Lintfort Neues Rathaus” and exit the station “Moers Augustastr”; from there take the bus 3 in direction to “Duisburg Kaldenhausen Krölls” and take the exit “Moers Biefang” (5 min. walk from there to the hotel).
- › Option 3: Take the train RB31 in direction to “Moers Bahnhof” and take the exit “Moers Bahnhof”; from there take the bus 4 in the direction to “Moers Hauptfriedhof” and take the exit “Moers Schwanenring”; from there take the bus SB10 in the direction to “DU Hbf. Osteingang” and take the exit “Moers Biefang” (5 min. walk from there to the hotel).

Airplane:

- › Düsseldorf (ca. 30 km)
- › Essen/Mühlheim (ca. 30 km)
- › Weeze (ca. 50 km)
- › Köln/Bonn (ca. 80 km)
- › Frankfurt am Main (ca. 250 km): Take a connection flight to Düsseldorf airport or fast train (ICE) to Düsseldorf or Duisburg main station (Düsseldorf Hbf./ Duisburg Hbf.).

Collaborative Research Center 1451

Key Mechanisms of Motor Control in Health and Disease, Cologne | Bonn | Frankfurt | Jerusalem | Jülich | Münster

www.crc1451.uni-koeln.de

Follow us on: <https://twitter.com/crc1451>

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