info@mcc2019.com

PROGRAM

MCC 2019

Langenbeck-Virchow-Haus GbR
Luisenstraße 58/59
10117 Berlin (Mitte), Germany

7th International Symposium on Motivational and Cognitive Control

16th - 18th September 2019
Berlin

ORGANISATION TEAM

Markus Ullsperger

Tanja Endrass

Adrian Fischer

Julia Rogge

Claudia Danielmeier

Hans Kirschner

Svende Kübler

The support from the following students is gratefully acknowledged:

Leonie Oevel
Kathleen Rödger
Yoonsang Lee
Kateryna Yasynska
Ikenna Uba
Sina Alexandra Schwarze

WELCOME TO MCC 2019!

Here, we put together some useful information on the 7th International Symposium on Motivational and Cognitive Control, MCC 2019.

A brief timetable can be found on the first pages of this booklet. Please check mcc2019.com for possible updates.

The titles for the poster sessions are listed on pages 11 - 34. Additional information can be found here:

www.conftool.com/mcc2019/sessions.php

Details incl. abstracts can be reached by selecting a session (oral or poster) and clicking on "Show abstracts".

Additional information and directions can be found on pages 35 - 38.

If you have any questions please ask The MCC Team with the green name badges.

We wish you an exciting time in Berlin!

With best regards,
Your MCC 2019 organizers

MONDAY
SEPT. 16

REGISTRATION OPEN

8:00 – 19:15

TIME	
8: 00	**MOUNT POSTERS I**
8:45 – 9: 00	**OPENING REMARKS** Markus Ullsperger
9: 00 - 10:20	**SESSION I:** COGNITIVE CONTROL
9: 00	**Beyond Dual Systems: Neural Activity in Performance-Monitoring, Cognitive Control, and Valuation Networks Predicts Real-Life Self-Control Failures** Thomas Goschke
9: 40	**Weighing the costs and benefits of control** Amitai Shenhav
10:20 – 10:50	**REFRESHMENT BREAK**
10: 50 – 12:40	**SESSION II:** ERRORS AND POST-ERROR ADJUSTMENTS
10: 50	**The role of the posterior medial frontal cortex in post-error adaptive behaviour and learning from errors** Claudia Danielmeier
11: 30	**Error-related brain activity and adaptive post-error adjustments** Marco Steinhauser
12: 10	**PANEL DISCUSSION:** The posterior medial frontal cortex, cognitive control, and decision making Discussant: Markus Ullsperger
12:40 – 13:20	**LUNCH BREAK**

TIME	
13:20 – 14:40	**POSTER SESSION I**
14:40 – 16:40	**SESSION III:** COMPUTATIONAL NEUROSCIENCE OF LEARNING AND DECISION MAKING
14:40	**What is the role of the orbitofrontal cortex in decision making?** Yaël Niv
15:20	**Structure learning and the parietal cortex** Christopher Summerfield
16:00	**Beyond scalar reward prediction errors: corticostriatal mechanisms of structure learning** Michael Frank
16:40 – 17:10	**REFRESHMENT BREAK**
17:10 – 19:10	**SESSION IV:** CLINICAL NEUROSCIENCE OF MOTIVATIONAL AND COGNITIVE CONTROL
17:10	**Recognizing value: Ventral prefrontal contributions to multi-attribute decisions** Lesley Fellows
17:50	**Performance monitoring in obsessive-compulsive disorder** Tanja Endrass
18:30	**Impulsivity and the subthalamic nucleus: neurophysiological studies** Valerie Voon
19:15	**Dismantle Posters I**

TUESDAY
SEPT. 17

REGISTRATION OPEN

8:30 – 18:40

TIME	
8: 30	**MOUNT POSTERS II**
9: 00 - 10:20	**SESSION V: NEUROCHEMISTRY OF MOTIVATIONAL AND COGNITIVE CONTROL**
9: 00	**Chemistry of the adaptive mind** Roshan Cools
9: 40	**Multiple axes of dopamine evaluation systems in behavioral choice** Mitsuko Watabe-Uchida
10:20 – 10:50	**REFRESHMENT BREAK**
10: 50 – 11:30	**SESSION VI:** NEUROCHEMISTRY OF MOTIVATIONAL AND COGNITIVE CONTROL
10: 50	**Wake up! How arousal influences value-based choice and exploratory behavior** Christian Ruff
11:30 – 12:00	**PANEL DISCUSSION:** Computations and mechanisms for controlling sensitivity to new information Discussant: Matthew Nassar
12:00 – 12:40	**LUNCH BREAK**
12:40 – 14:00	**POSTER SESSION II**

TIME	
14:00 – 15:20	**SESSION VII:** COMPARATIVE SOCIAL AND DECISION NEUROSCIENCE
14:00	**Comparative primate neuroscience of the social brain** Rogier Mars
14:40	**Neural basis of social reward monitoring and valuation** Masaki Isoda
15:20 – 15:50	**REFRESHMENT BREAK**
15:50 – 17:10	**SESSION VIII:** COMPARATIVE DECISION NEUROSCIENCE
15:50	**Where to look next? Information search and choice in humans and other primates** Laurence Hunt
16:30	**A premotor circuit responsible for flexible decision making.** Michael Shadlen
17:10 – 17:40	**PANEL DISCUSSION:** TOPIC TBA Discussant: Soyoung Park
17:40	**Dismantle Posters II**
20:00 – 2:00	**SOCIAL EVENT:** Dinner at Alte Pumpe Markus Ullsperger: The history and future of MCC. Pitches: Next MCC site

WEDNESDAY
SEPT. 18

REGISTRATION OPEN

8:30 – 17:00

TIME	
8: 30	**MOUNT POSTERS III**
9: 00 – 11:00	**SESSION IX: CORTICAL AND SUBCORTICAL MECHANISMS OF CONTROL**
9: 00	**The anatomo-functional role of the subthalamic nucleus in strategic decision-making** Birte Forstmann
9: 40	**β-bursts as a marker of the trial-to-trial dynamics of movement initiation and cancellation** Jan R. Wessel
10:20	**Rhythms for Cognition: Communication through Coherence** Pascal Fries
11:00 – 11:30	**REFRESHMENT BREAK**
11:30 – 12:50	**SESSION X:** MECHANISMS OF DECISION MAKING
11:30	**Flexible decision-making through long-term integration of evidence** Christian Ruff
12:10	**Tracking Decision-Making Signals in Human EEG** Adrian G. Fischer
12:50 – 13:30	**LUNCH BREAK**
13:30 – 14:50	**POSTER SESSION III**

TIME	
14:50 – 16:10	**SESSION XI: COMPUTATIONAL NEUROSCIENCE OF LEARNING AND DECISION MAKING**
14:50	**Prospection, motivation and awareness during reward-guided choice** Nils Kolling
15:30	**The role of uncertainty in model construction and action selection** Jill O'Reilly
16:10 – 16:40	**PANEL DISCUSSION:** The role of cognitive maps in neural systems underlying reward processing and value based decision making Discussant: Nicolas Schuck
16:40 – 17:10	**CLOSING REMARKS, SELECTION OF NEXT MCC SITE**
17:10	**Dismantle Posters III**

THURSDAY
SEPT. 19

SEPARATE REGISTRATION AND ADDITIONAL FEE

Satellite Workshop

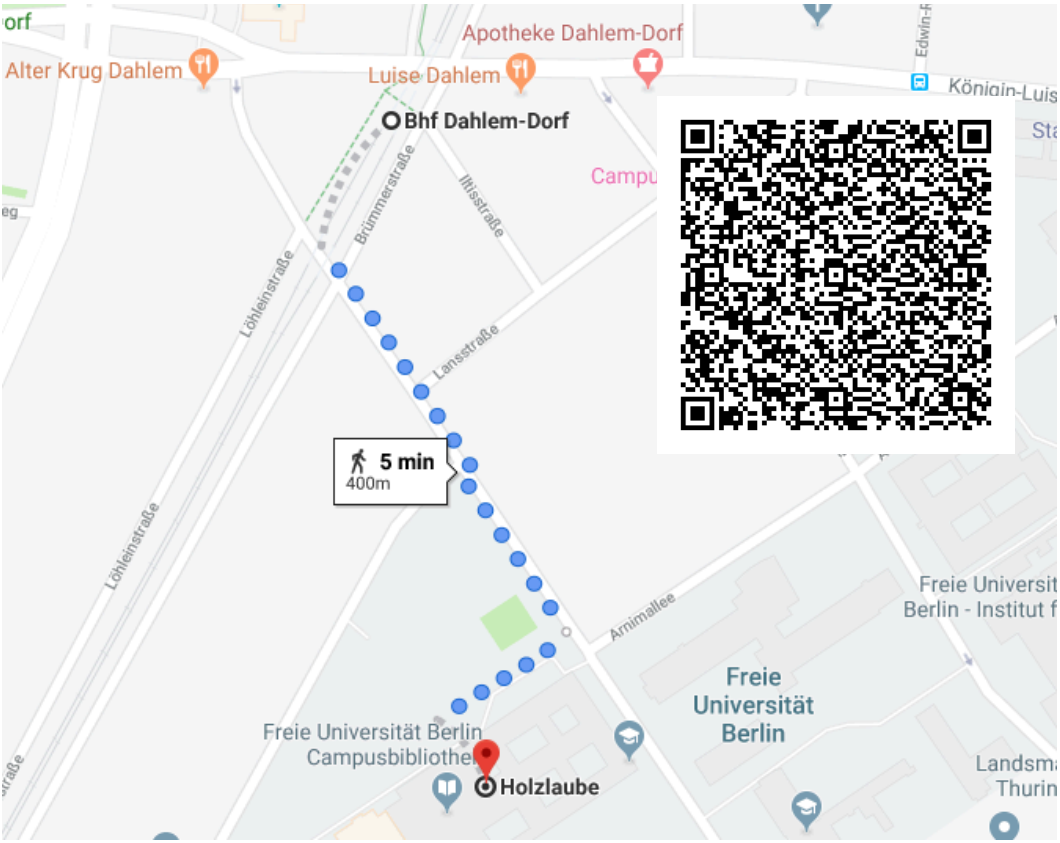
Advanced Model-Based, Single-Trial EEG Analysis

Adrian G. Fischer (AGF) & Jan R. Wessel (JRW)

9:00 – 9:45	**Session 1** (AGF) Why single-trial analyses?
9:45 – 10:25	**Session 2** (JRW) Pre-processing, introduction to ICA
10:25 – 10:40	**Coffee Break**
10:40 – 11:30	**Example session I (**AGF) Setting-up your data and running a single-trial regression analysis with the STA-TB
11:30 – 12:30	**Session 3** (JRW) ICA as a tool to increase SNR in EEG data **Example session II** (JRW) COMPASS to select ICs
12:30 – 13:30	**Lunch Break**
13:30 – 14:10	**Example session III** (AGF) EEG regression with independent component activity **Example session IV** (AGF) Combine data across participants
14:15 – 14:45	**Session 5** (JRW) Time-frequency decomposition and single-trial analyses.
14:45 – 15:00	**Coffee Break**
15:00 – 16:00	**Example session V** (AGF) Run a TF decomposition and GLM analysis
16:00 – 16:30	**Questions, more examples, discussion**

WORKSHOP WILL BE HELD @
FREIE UNIVERSITÄT BERLIN
FABECK STREET 23-25 ("HOLZLAUBE"),14195 BERLIN

ROOM 1.2051



Directions from Berlin Central Train Station:
travel time ca. 30 min:
S-Bahn train S9 (direction Spandau) to **Zoologischer Garten**,
change to **subway U2** (direction Pankow) to **Wittenbergplatz**,
change to **subway U3 (**direction Krumme Lanke) to **Station Dahlem Dorf**;
From there, follow directions from the map above.

POSTER SESSION I

MONDAY, SEPTEMBER 16, 13:20 – 14:40

Poster I - 01

A Mechanistic Account of Constraints on Control-Dependent Processing: Shared Representation, Conflict and Persistence

Sebastian Musslick, Jonathan Cohen

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Poster I - 02

Adaptive Rescheduling of Error Awareness in Multitasking

Robert Steinhauser, Marco Steinhauser

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Poster I - 03

Cognitive control from the perspective of control theory: computational modeling and fMRI

Joshua Brown, Noah Zarr

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Poster I - 04

Evidence accumulation during perceptual decision making: Beta-lateralization builds up over time throughout a delay

Julia Rogge[1,2], Gerhard Jocham[1,3], Markus Ullsperger[1,2,4]

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Poster I - 05

Choice-Induced Modifications of Stimulus-Outcome Associations Guide Future Decision Making

Lennart Luettgau[1,2], Claus Tempelmann[3], Luca Kaiser[1,4], Gerhard Jocham[1,2,4]

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Poster 1 - 06

Dissociable roles of cortical excitation-inhibition balance during patch-leaving versus value-based choice

Luca Franziska Kaiser[1,2], Theo Oliver Jens Gründler[2], Lennart Lüttgau[2,6], Oliver Speck[2,3,4,5], Gerhard Jocham[1,2,6]

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Poster 1 - 07

A COGNITIVE BRANCHING MODEL OF PAIN-INTERFERENCE

Georgia Hadjis[1], Amy Ying Lin[1], Andrew Yu[1], Romina Sotoodeh[1], David A. Seminowicz[2,3], Mary Pat McAndrews[4,5], Massieh Moayedi[1]

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Poster 1 - 08

Active and latent representation in working-memory-guided behaviour

Paul Muhle-Karbe, Nicholas Myers, Mark Stokes

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Poster 1 - 09

Can willingness to exert cognitive effort predict reflective reasoning?

Martin Jensen Mækelæ, Kristoffer Klevjer, Gerit Pfuhl

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Poster 1 - 10

Brain network dynamics during spontaneous strategy shifts and incremental task optimization

Michele Allegra[1], Shima Seyed-Allaei[2], Nicolas W. Schuck[3], Daniele Amati[4], Alessandro Laio[4], Carlo Reverberi[5]

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Poster 1 - 11

Adaptive risk-taking with endogenous imprecision in real-time

Simon Ciranka, Bernhard Spitzer

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Poster 1 - 12

COGNITIVE EFFORT MODULATES FRONTAL EFFECTIVE CONNECTIONS: A DYNAMIC CAUSAL MODELING STUDY ON MACAQUE MONKEYS

Katharina Wegner[1], Charlie Wilson[2], Emmanuel Procyk[2], Karl Friston[3], Daniele Marinazzo[1]

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Poster 1 - 13

Common electrophysiological biomarkers from cross-species paradigms

James F Cavanagh[1], Greg Light[2], Jared Young[2], Jonathan Brigman[1]

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Poster 1 - 14

Complementing effects of reactive and proactive control on the congruency sequence effect

Qian Yang, Gilles Pourtois

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Poster 1 - 15

Deciding how to decide: Discovery of and arbitration between cognitive strategies

Anika T. Löwe[1], Paul S. Muhle-Karbe[2], Christopher Summerfield[2], Nicolas W. Schuck[1,3]

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Poster 1 - 16

Dissociable neural mechanisms of opening vs. closing the gate to working memory

Gal Nir-Cohen[1,3], Yoav Kessler[2,3], Tobias Egner[4]

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Poster 1 - 17

Electroencephalographic Correlates of Temporal Bayesian Belief Updating and Surprise

Antonino Visalli[1], Mariagrazia Capizzi[2], Ettore Ambrosini[1,3], Bruno Kopp[4], Antonino Vallesi[3,5]

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Poster 1 - 18

Effects of positive and negative feedback on Voluntary Task Switching

Markus Spitzer, David Dignath

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Poster 1 - 19

Evidence for a cost of cognitive control effect on foraging behavior

Laura Bustamante[1], Allison Burton[1], Amitai Shenhav[2], Nathaniel Daw[1], Jonathan Cohen[1]

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Poster 1 - 20

Dynamic integration of forward planning and heuristic preferences during multiple goal pursuit

Florian Ott, Dimitrije Markovic, Alexander Strobel, Stefan Kiebel

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Poster 1 - 21

Exploring the underlying computations and functional interactions of macaque prefrontal areas in rule-based decision making: Recording simultaneously from multiple chronically implanted multi-electrode arrays

Juan M Galeazzi, Erica A Boschin, Martin O'Neill, Matthew Ainsworth, Mark J Buckley

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Poster 1 - 22

Synthesizing a neural measure of regulation of craving from single-trial EEG

Raoul Dieterich, Tanja Endrass

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Poster 1 - 23

Habits - Outcome Gets You Started, Control Keeps You Going

Orit Nafcha, Baruch Eitam

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Poster 1 - 24

Implicit reward associations impact face perception and cognition: Time-resolved evidence from event-related brain potentials and pupil dilations

Annekathrin Schacht[1,3], Wiebke Hammerschmidt[1,3], Igor Kagan[2,3], Louisa Kulke[1,3]

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Poster 1 - 25

Increasing reward prospect promotes cognitive flexibility: More evidence from task switching with three tasks

Kerstin Fröber, Gesine Dreisbach

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Poster 1 - 26

Influence of Prediction Errors on Memory Encoding and Connectivity between Frontomedial and medio-temporal cortex

Joshua Kah Meng Khoo[1], Adrian Fischer[2], Jan Derrfuss[1], Claudia Danielmeier[1]

[1]University of Nottingham, United Kingdom; [2]Freie Universität Berlin, Germany; lpxkmkh@nottingham.ac.uk

Poster 1 - 27

Learned low-dimensional representations support novel generalisation

Stephanie Nelli, Andrew Saxe, Christopher Summerfield

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Poster 1 - 28

Motivating Without 'Rewards': Intact Motivation From Being Effective in Major Depression

Shirel Bakbani-Elkayam, Tohar Dolev-Amit, Eitan Hemed, Sigal Zilcha-Mano, Baruch Eitam

University of Haifa, Israel; shirelbelkayam@gmail.com

Poster 1 - 29

Neural dynamics underlying the integration of reward and efficacy during evaluation and motivation of cognitive control

Romy Frömer[1], Hause Lin[2], Carolyn Dean Wolf[1], Michael Inzlicht[2], Amitai Shenhav[1]

[1]Brown University, United States of America; [2]University of Toronto, Canada; romy_fromer@brown.edu

Poster 1 - 30

Neural Mechanisms of Motivational Incentive Integration and Cognitive Control

Debbie Yee, Todd Braver

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Poster I - 31

Outcome contingency selectively affects the neural coding of outcomes but not of tasks

David Wisniewski[1], Birte Forstmann[2], Marcel Brass[1]

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Poster I - 32

Self-control signals in medial frontal cortex of monkeys during a temptation task

Erik Emeric, Jaewon Hwang, Veit Stuphorn

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Poster I - 33

The food macronutrient composition impacts human risk decision

Lu Liu[1,2], Sabrina Strang[3], Sergio Oroz Artigas[3], Anja Ulrich[3], Jeremy Tardu[3], Berthold Koletzko[4], Sebastian M Schmid[2,3], Soyoung Q Park[1,2,5]

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Poster I - 34

The influence of dopamine on implicit and explicit food choice

Elliot Clayton Brown[1,5], Apoorva Rajiv Madipakkam[2], Astrid Hermsteiner[2], Thomas Muente[3], Soyoung Q. Park[1,4,5]

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Poster I - 35

Working memory gating for perception and long-term memory: Opening as a serial and closing as a parallel process

Sam Verschooren[1,3], Yoav Kessler[2], Tobias Egner[3]

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Poster I - 36

When conflict brings pleasure: examining the necessary conditions under which incongruent stimuli are evaluated as positive

Ivan Ivanchei[1], Senne Braem[2], Luc Vermeylen[1], Wim Notebaert[1]

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Poster I - 37

The specific role of contextual cues in the context-specific regulation of cognitive control

Franziska M. Korb[1], Joseph A. King[2], Caroline Surrey[3], Rico Fischer[4]

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Poster I - 38

The role of the opioid system in decision making and cognitive control

Henk van Steenbergen[1,2,5], Marie Eikemo[3,4,5], Siri Leknes[4,5]

[1]Cognitive Psychology Unit, Institute of Psychology, Leiden University, The Netherlands; [2]Leiden Institute for Brain and Cognition, The Netherlands; [3]Department of Diagnostic Physics, Oslo University Hospital, Norway; [4]Department of Psychology, University of Oslo, Norway; [5]Henk van Steenbergen and Marie Eikemo contributed equally to this work; HvanSteenbergen@fsw.leidenuniv.nl

Poster I - 39

Value spillover: How contextually irrelevant values influence choice and vmPFC activity in humans

Nir Moneta[1,2], Hauke R. Heekeren[2], Nicolas W. Schuck[1,3]

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POSTER SESSION II

TUESDAY, SEPTEMBER 17, 12:40 – 14:00

Poster II - 01

A combined EEG-EMG-TMS study on the modulation of response inhibition by proactive control

Liisa Raud[1], René Huster[1], Ludovica Labruna[2], Mari Messel[1], Richard Ivry[2], Ian Greenhouse[3]

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Poster II - 02

Relations between social anxiety and cognitive control dynamics while under social observation

George A Buzzell, Sonya V. Troller-Renfree, Tyson V. Barker, Lindsay C. Bowman, Santiago Morales, Edward M. Bernat, Heather A. Henderson, Daniel S. Pine, Nathan A. Fox

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Poster II - 03

Targeting the human habenula in decisions on approach and avoidance in fMRI

Christian Kaiser[1], Yan Arnold[2], Oliver Speck[2,3], Markus Ullsperger[1,3]

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Poster II - 04

A basal forebrain-cingulate circuit in macaques decides it is time to act

Nima Khalighinejad[1], Alessandro Bongioanni[1], Lennart Verhagen[1], Davide Folloni[1], David Attali[2], Jean-Francois Aubry[2], Jerome Sallet[1], Matthew Rushworth[1]

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Poster II - 05

A Multi-Level Reinforcement-Learning Model of Wisconsin Card Sorting Test Performance

Alexander Steinke[1], Florian Lange[2], Bruno Kopp[1]

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Poster II - 06

A new method to manipulate flow.

Augustin Joëssel, Mathilde Magontier, Swann Pichon, Daphné Bavelier

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Poster II - 07

Anterior Prefrontal Cortex Maintains Feature Information During Reallocation of Attention Independent of Visual Awareness

Lasse Güldener[1], Antonia Jüllig[1], David Soto[2,3], Stefan Pollmann[1,4]

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Poster II - 08

Alcohol-related cues modulate cognitive control functions in patients with alcohol use disorder

Anna Berezina[1,2], Anna Trusova[1,2], Anton Gvozdetckii[1], Svetlana Klimanova[1,2]

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Poster II - 09

Catecholaminergic modulation of reversal learning

Mojtaba Rostami Kandroodi[1,2], Monja Froboese[2], Jennifer Swart[2], Jennifer Cook[3], Dirk Geurts[2,4], Abdol-Hossein Vahabie[5], Majid Nili Ahmadabadi[1], Roshan Cools[2,4], Hanneke den Ouden[2]

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Poster II - 10

Cognitive Overcontrol as a Trait Marker in Anorexia Nervosa? Aberrant Task- and Response-Set Switching in Remitted Patients

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Poster II - 11

Cognitive modelling reveals distinct electrophysiological markers of decision confidence and error monitoring

Manuel Rausch, Michael Zehetleitner, Marco Steinhauser, Martin E. Maier

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Poster II - 12

Computational modeling of cognitive processes underlying approach decisions in non-human primates and patients with major depressive disorder – a translational approach.

Mads Lund Pedersen[1,2], Maria Ironside[3,4], Ken I. Amemori[5,6], Callie L. McGrath[3], Min Su Kang[3], Ann M. Graybiel[6], Darin D. Dougherty[4], Diego A. Pizzagalli[3,4], Michael J. Frank[1,7]

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Poster II - 13

Coupling of visual gamma to brain networks during colour discrimination task - a simultaneous EEG-fMRI study

Ewa Beldzik, Aleksandra Domagalik, Anna Beres, Tadeusz Marek

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Poster II - 14

Conditioning the Speed-Accuracy Trade-Off in Perceptual Decision Making

Jonas Simoens[1], Tom Verguts[1], Senne Braem[2]

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Poster II - 15

Diet-dependent effects of amisulpride on reinforcement learning and working memory in humans: a study proposal

Lieneke Katharina Janssen[1,2], Hendrik Hartmann[2,3], Annette Horstmann[1,2,3,4]

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Poster II - 16

Error-related brain activity predicts real-life self-control failures

Rebecca Overmeyer[1], Julia Berghäuser[1], Verena Wüllhorst[1], Max Wolff[1], Thomas Goschke[1,2], Tanja Endrass[1]

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Poster II - 17

Error positivity and beta-band alterations in obsessive-compulsive disorder during associative learning

Nuria Doñamayor[1,2], Jürgen Lambrecht[2,3], Marcus Heldmann[2,4], Manuel Römisch[2], Jakob Dinani[2], Thomas F. Münte[2,4], Bartosz Zurowski[5]

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Poster II - 18

Effects of methylphenidate on the motivation of flexible and stable cognitive control

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Poster II - 19

Evaluative feedback processing is influenced by goal relevance in a time estimation task

Mario Carlo Severo[1], Katharina Paul[1], Wioleta Walentowska[2,1], Agnes Moors[3], Gilles Pourtois[1]

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Poster II - 20

Dorsal ACC drives state learning in high trait anxiety

Ondrej Zika[1,2,3], Rafal Bogacz[1], Katja Wiech[1,2]

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Poster II - 21

Flexibility of Error-Monitoring in Obsessive-Compulsive Disorder under Speed and Accuracy Instructions

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Poster II - 22

Dopaminergic effects on reinforcement learning and brain signal variability in old age

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Poster II - 23

Is a planning task more demanding than a working memory task?

Ilona Pritschke, Thea Radüntz

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Poster II - 24

Learning concepts in computer programming

Sara L Bengtsson, Andreas Lidström

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Poster II - 25

Learning whether control matters: neural dynamics underlying the updating of expectations and control allocation in response to changes in performance efficacy

Ivan Grahek[1], Romy Frömer[2], Amitai Shenhav[2]

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Poster II - 26

Lifespan age differences in the regulation of learning during sequential decisions under uncertainty

Rasmus Bruckner[1,2], Matthew R. Nassar[3], Shu-Chen Li[4], Ben Eppinger[4,5]

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Poster II - 27

Mistakes that matter: An event-related potential study on obsessive-compulsive traits and social performance monitoring in different responsibility contexts

Myrthe Jansen[1,2], Ellen R. A. De Bruijn[1,2]

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Poster II - 28

Multilevel relationships between loneliness and trust

Gabriele Bellucci[1,2], Soyoung Park[1,2,3,4]

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Poster II - 29

Parametric Control of Attention

Harrison Ritz[1], Amitai Shenhav[1,2]

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Poster II - 30

Preserved implicit metamemory and search investment in Schizophrenia

Thea Simensen[1], Wenche ten Velden Hegelstad[2], Lina Livsdatter[3], Gerit Pfuhl[3]

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Poster II - 31

Shared Neural Representations of Conflict and Affect

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Poster II - 32

Social evidence accumulation in medial frontal cortex

Marius Braunsdorf[1], Nils Kolling[2], Suhas Vijayakumar[1], Ivan Toni[1], Rogier Mars[1,3]

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Poster II - 33

Stimulus value and prediction error encoding in a cooperative and competitive social context

Rebecca Burnside, Markus Ullsperger

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Poster II - 34

Striatal Dopamine and Decreased Prediction Error Coding in Unmedicated Schizophrenia Patients

Teresa Katthagen[1], Jakob Kaminski[1,2], Andreas Heinz[1], Ralph Buchert[3], Florian Schlagenhauf[1]

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Poster II - 35

The experience-description gap in the human brain

Fabien Cerrotti, Vasilisa Skvortsova, Valentin Wyart, Stefano Palminteri

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Poster II - 36

The role of the opioid and dopaminergic system in applying cognitive control in value-based decision making

Nace Mikus[1], Sebastian Korb[1], Giorgia Silani[1], Chris Mathys[2], Claus Lamm[1]

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Poster II - 37

Tracking Motivational Biases and Their Suppression in Time and Space

Johannes Algermissen[1], Jennifer C. Swart[1], Emma J. van Dijk[1], René Scheeringa[1], Roshan Cools[1,2], Hanneke E. M. den Ouden[1]

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Poster II - 38

Valence biases in the metacontrol of decision-making strategies in adolescents and adults

Florian Bolenz[1], Ben Eppinger[1,2]

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POSTER SESSION III

WEDNESDAY, SEPTEMBER 18, 13:30 – 14:50

Poster III - 01

Separate ACC single unit ensembles encode conflict versus errors in a novel rodent partial error paradigm

Ryo Iwai[1], Ioannis S Zouridis[1], Nikos K Logothetis[1], Nelson K Totah[1,2,3]

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Poster III - 02

Disentangling the link between Mindfulness and Error Awareness

Hans Kirschner[1,2], Thorsten Barnhofer[3], Markus Ullsperger[1,4]

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Poster III - 03

A role for trait empathy in the processing of unexpected observed actions

Christine Albrecht, Christian Bellebaum

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Poster III - 04

Capturing the evolution of decisions from uncertain visual images to uncertain actions

Alessandro Tomassini[1], Darren Price[1], Jiaxiang Zhang[2], James Rowe[1,3]

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Poster III - 05

Computational advantages of dopaminergic states for decision making

Alana Jaskir, Michael Frank

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Poster III - 06

Ergodicity-Breaking Reveals Time Optimal Economic Behavior in Humans

David Meder[1], Finn-Lennart Rabe[2], Tobias Morville[1], Kristoffer H. Madsen[1], Magnus T. Koudahl[3], Ray J. Dolan[4], Hartwig R. Siebner[1], Oliver J. Hulme[1]

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Poster III - 07

Errors by responding to the distractors in the flanker task are accompanied by increased selective attention to the distractors: Evidence from visual probes

Martin E. Maier, Marco Steinhauser

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Poster III - 08

Does goal ambiguity affects mental workload?

Yuexin Cao, Thea Radüntz

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Poster III - 09

Distinct and overlapping neural representations of metacognitive knowledge and metacognitive control

Annika Boldt, Sam Gilbert

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Poster III - 10

Framework for modelling the effects of motivational state on choice and learning in the basal ganglia

Maaike Margot Helene van Swieten, Rafal Bogacz

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Poster III - 11

Humor protects from stress at cognitive cost

Anne-Katrin Muth[1,2], Christina Bolte[2], Barbara Craffonara[2], Soyoung Q. Park[1,2,3,4]

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Poster III - 12

Interacting effects of transcranial direct current stimulation and manipulations of control on Pavlovian bias during reinforcement learning

Gábor Csifcsák[1], Jorunn Bjørkøy[1], Sarjo Kuyateh[1], Haakon Reithe[1], Vera Daniella Dalos[2], Levente Rónai[2], Szilvia Szalóki[2], Matthias Mittner[1]

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Poster III - 13

Modulatory effects of positive mood and approach motivation on reward processing: two sides of the same coin?

Katharina Paul[1], Gilles Pourtois[1], Eddie Harmon-Jones[2]

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Poster III - 14

Neuronal correlates of sequential decision-making in tobacco use disorder

Julia Berghäuser, Marie-Kristin Siegl, Tanja Endrass

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Poster III - 15

Novel choices in macaques: activation and disruption of a neural mechanism for value integration

Alessandro Bongioanni, Miriam Klein-Flügge, Davide Folloni, Lennart Verhagen, Jerome Sallet, Matthew Rushworth

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Poster III - 16

Older Adults Demonstrate Greater Model-based Decision-making when Task Demands are Reduced

Alexa Ruel[1], Florian Bolenz[1], Shu-Chen Li[2], Ben Eppinger[2]

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Poster III - 17

Opposing roles for amygdala and vmPFC in the return of appetitive conditioned responses in humans

Claudia Ebrahimi[1], Stefan Koch[1], Charlotte Pietrock[1], Thomas Fydrich[2], Andreas Heinz[1,3], Florian Schlagenhauf[1,4]

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Poster III - 18

Real and fictive feedback processing in depressed and healthy individuals

Tilmann A. Klein[1,2], Adrian G. Fischer[1,2,3], Gabriele Meyer-Lotz[4], Thomas Frodl[4], Markus Ullsperger[1,2]

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Poster III - 19

Simultaneaously modeling behavioral and neural data

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Poster III - 20

Striatal Dopamine Promotes Cognitive Effort by Amplifying the Benefits Versus the Costs of Cognitive Work

Andrew Westbrook[1,2], Lieke Hofmans[2], Jessica Määttä[2], Danae Papadopetraki[2], Ruben van Den Bosch[2], Michael Frank[1,3], Roshan Cools[2,4]

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Poster III - 21

Temporal dynamics of error-related corrugator supercilii and zygmaticus major activity - Evidence for implicit emotion regulation following errors

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Poster III - 22

Test-retest-reliability of a novel probabilistic reversal-learning task across four weeks

Lara Wieland, Teresa Katthagen, Orestis Ratzikis, Stella Zimmermann, Florian Schlagenhauf

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Poster III - 23

The affective valence appraisal of correct and incorrect actions: Evidence from emotional priming and autonomic arousal

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Poster III - 24

How flexibly can the brain adapt to different timescales of evidence integration?

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Poster III - 25

Grasping motivation: Approach and Avoidance behavior is represented in grasping and slipping hand-movements

Sofie Nilsson[1], David Meder[1], Kristoffer Hougaard Madsen[1], Ivan Toni[2], Hartwig Siebner[1]

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Poster III - 26

The clinical relevance of the neurocomputational processes underlying motivational biases

Vanessa Scholz[1], Johannes Algermissen[1], Mojtaba Rostami Kandroodi[1,2], Hanneke E.M. den Ouden[1]

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Poster III - 27

The construction and deconstruction of irrational preferences through range-adapting reinforcement learning

Sophie Bavard[1], Aldo Rustichini[2], Stefano Palminteri[1]

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Poster III - 28

The distractor frequency effect in the Picture–Word task with a mirrored word

Aleksei Starodubtsev, Kirill Miroshnik, Mihail Sopov

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Poster III - 29

Intracranial recordings reveal distinct spatio-temporal dynamics for proactive and reactive conflict processing during a Stroop task

Colin Weir Hoy[1], Robert Thomas Knight[1,2]

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Poster III - 30

The effects of effort on working memory performance and pupillary responses in schizophrenia

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Poster III - 31

The influence of positive and negative incentives on cognitive effort persistence

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Poster III - 32

Non-linear value and probability distortions can be optimal for noisy decision-makers in economic choice

Keno Juechems[1,3], Jan Balaguer[1,3], Bernhard Spitzer[1,2,4], Christopher Summerfield[1,4]

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Poster III - 33

The P300 as marker of inhibitory control – fact or fiction?

Rene Huster, Mari Messel, Christina Thunberg, Liisa Raud

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Poster III - 34

Distinct modes of reward-related modulation of perceptual sensitivity depending on the task contingency

Jessica Emily Antono, Roman Vakhrushev, Arezoo Pooresmaeili

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Poster III - 35

Goal-directed response switching in alcoholism

Janina Marchner[1], Claudia Preuschhof[1,2]

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Poster III - 36

Identical observed error performance of humans and autonomous systems is associated with qualitatively different electrophysiological brain responses

Daniel A. Rogers[1], Kirsty Brooks[2], Anthony Finn[1], Matthias Schlesewsky[1], Markus Ullsperger[3], Ina Bornkessel-Schlesewsky[1]

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Poster III - 37

Modulation of behavioral and electrophysiological responses to visual targets by the reward value of co-occurring auditory or visual cues

Roman Vakhrushev[1], Felicia Pei-Hsin Cheng[1], Annekathrin Schacht[2], Arezoo Pooresmaeili[1]

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Poster III – 38

Influence of non-invasive brain stimulation on executive function local activity and effective connectivity

Luise Claaß[1], Annika Hedrich[1,2], Janis Reichelt[1], Bernhard Sehm[1], Arno Villringer[1], Florian Schlagenhauf[1,2,3,4], Jakob Kaminski[1,2,3]

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Poster III - 39

Structural covariance patterns of the anterior RCZ: Age effects and comparison to functional connectivity

Alexander Weuthen[1,2], **Markus Ullsperger**[1,3]

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ADDITIONAL INFORMATION & DIRECTIONS

Directions: Motel One Berlin Hauptbahnhof – Langenbeck-Virchow-Haus

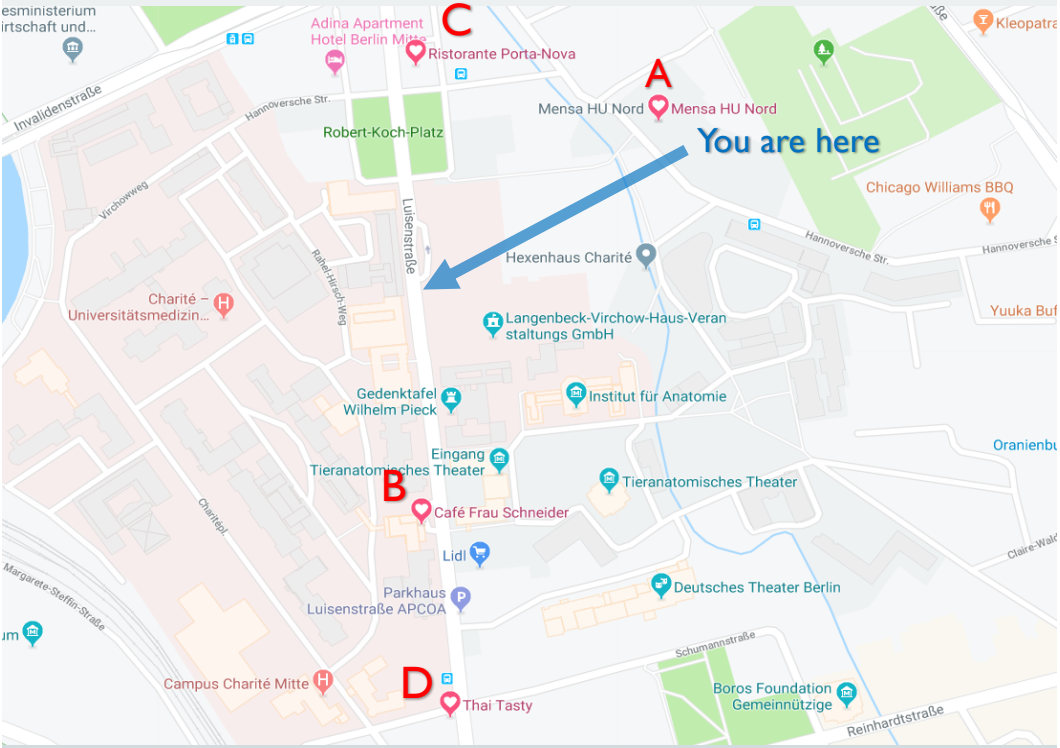
POINTS OF INTEREST

ATM
Berliner Sparkasse
Luisenstraße 10 (across the street)
10117 Berlin
Open 24 hours

Pharmacy
MediosApotheke an der Charité
Luisenstraße 54/55
10117 Berlin
hours: 8 am -7 pm

Parking
Parkhaus Luisenstraße APCOA
Luisenstraße 47-52
10117 Berlin
Open 24 hours

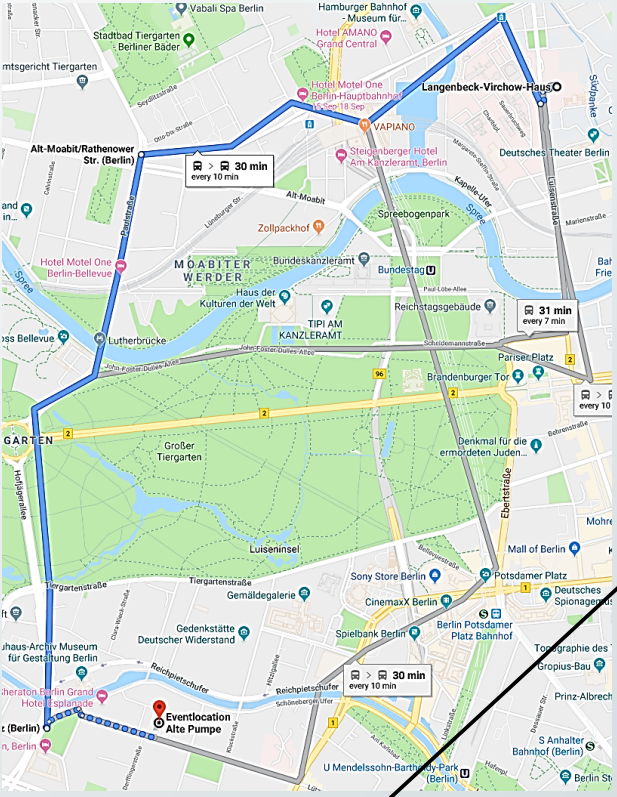
AREAS OF INTEREST



A Mensa HU-Nord (Canteen of Charité and Humboldt University)
B Café Frau Schneider (Coffee and Lunch)
C Porta Nova (Italian Cuisine)
D Thai Tasty (Thai Cuisine)

SOCIAL EVENT @ ALTE PUMPE
LÜTZOWSTRASS 42, 10785 BERLIN

TUESDAY
SEPTEMBER 17, 2019
20:00



Possible directions:

1) Walk 110 m from Langenbeck-Virchow-House to bus stop **Charité Campus Mitte**.

or

2. a) Take **bus 245** (Dir. S+U Zoologischer Garten via Hauptbahnhof) until **Alt Moabit/Rathenower Str.**

3. a) Take **bus 187**(Dir. Lankwitz/ Halbauer Weg) until **Lützowplatz**

2. b) take **bus 245** (Dir. S+U Alexanderplatz) until **Brandenburger Tor**

3. b) Take **bus 100** (Dir. S+U Zoologischer Garten via Reichstag) until **Lützowplatz**

4) Walk about 5 min (450 m) to **Eventloation „Alte Pumpe“**

info@mcc2019.com
www.mcc2019.com
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DFG Deutsche Forschungsgemeinschaft
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