

Scientific Program Aging & Cognition 2015

Thursday, 23.04.2015

08.30 – 08.55 h	Silbersaal Opening / Welcome			
	Silbersaal		Saal 9	Saal 10
	Symposium Physical activity, fitness, mobility and cognition Louis Bherer, Canada & Claudia Voelcker-Rehage, Germany		Session Memory 1 Chair: Daniel Zimprich, Germany	Session Emotions & Stress Chair: Stefanie Brassen, Germany
09.00 – 10.30 h	Effects of physical activity and cognitive training on mobility and dual-task performance Predovan, D., Lussier, M., Desjardins-Crepeau, L., Fraser, S., Li, K.Z.H., Berryman, N., Bosquet, L., Kergoat, M.-J., Vu, T.T.M., Bherer, L., Canada, France	09.00 – 09.20 h	Revisiting the phonological similarity effect in working memory during aging Chicherio, C., Laganaro, M., Switzerland	Emotional stability in aging predicts structural integrity of the anterior cingulate cortex Brassen, S., Germany
	Multiple roads lead to Rome: combined high intensity aerobic and strength training vs. gross motor activities leads to equivalent improvement in executive functions in a cohort of healthy older adults Berryman, N., Bherer, L., Nadeau, S., Lauzière, S., Lehr, L., Bobeuf, F., Lussier, M., Kergoat, M.-J., Vu, T.T.M., Bosquet, L., Canada, France	09.20 – 09.40 h	The influence of age- and working memory load on the relationship between simultaneously measured EEG and fMRI Saliassi, E., Geerligs, L., Renken, R.J., Lorist, M.M., Maurits, N.M., Netherlands	Stress and cognitive performance and -decline in older persons; results from the Longitudinal Aging Study Amsterdam Comijs, H.C., Korten, N.C.M., Netherlands
	Motor fitness is positively related to volume in the cingulate gyrus and cognitive performance in older women Niemann, C., Baglivo, M., Hirsch, J., Godde, B., Voelcker-Rehage, C., Germany	09.40 – 10.00 h	What do we remember from our lives? Individual differences in the lifespan distribution of autobiographical memories Wolf, T., Zimprich, D., Germany	Apathy is associated with increased segregation of brain networks in Alzheimer's disease Tumati, S., Marsman, J.B.C., Martens, S., De Deyn, P.P., Aleman, A., Netherlands
	Lifelong physical activity influences executive functions in seniors: evidence from behavior and event-related potentials (ERP) Falkenstein, M., Gajewski, P.D., Germany	10.00 – 10.20 h	Individual and age-related differences in serial position curves Zimprich, D., Germany	

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**10.30 –
10.50 h**

Panoramaforum

Coffee Break

**10.50 –
11.50 h**

Silbersaal

Keynote

Lynn Hasher, Canada

The Positive Consequences of Distraction in the Mental Lives of Older Adults

**11.50 –
12.40 h**

Panoramaforum

Lunch Break

Thursday, 23.04.2015

	Silbersaal	Saal 9
	Symposium Lifecourse exposures and the ageing brain Alan J. Gow, UK	Symposium Aging and driving Melanie Karthaus, Germany
12.40 – 14.10 h	<p>The role of childhood life experiences and occupational demands for IQ development from early life to midlife Spengler, M., Martin, R., Brunner, M., Luxembourg, Germany</p> <p>The association of allostatic load with brain structure and cognitive ability in later life Ritchie, S.J., Booth, T., Royle, N.A., Corley, J., Gow, A.J., Valdés Hernández, M. del C., Muñoz Maniega, S., Bastin, M.E., Starr, J.M., Wardlaw, J.M., Deary, I.J., UK</p> <p>Examining neuroprotective lifestyles and white matter damage: the Glostrup 1914 Cohort Gow, A.J., Garde, E., Rostrup, E., Mortensen, E.L., UK, Denmark</p> <p>Changes in leisure activity, white matter microstructure, and perceptual speed in very old age Köhncke, Y., Jonsson Laukka, E., Brehmer, Y., Fratiglioni, L., Bäckman, L., Lövdén, M., Sweden, Germany</p>	<p>Assessing older drivers' awareness of complex traffic situations using the surrogate complexity method Hartwich, F., Beggiano, M., Roßner, P., Krems, J.F., Bullinger-Hoffmann, A.C., Germany</p> <p>How to investigate fitness to drive with cognitive impairments (FitCI) Piersma, D., de Waard, D., Bredewoud, R., Davidse, R., Tucha, O., Brouwer, W., Netherlands</p> <p>Determining the underlying constructs of the useful field of view test Edwards, J.D. , O'Brien, J.L., Aust, F., Lister, J.J., USA, Germany</p> <p>Age-related differences in performance and stimulus processing in simulated driving Karthaus, M., Wild-Wall, N., Falkenstein, M., Germany</p>
14.10 – 15.10 h	Saal 8	POSTER SESSION For further reviews, the posters should be left on the presentation boards after the poster session.

Thursday, 23.04.2015

	Silbersaal		Saal 9	Saal 10
	Symposium Aging, cognition and occupation Patrick Gajewski & Michael Falkenstein, Germany		Session Executive Control Chair: Patrizia S. Bisiacchi, Italy	Session Cognition 2 Chair: Rui Mata, Switzerland
15.10 – 16.40 h	<p>Work out your brain! - Effects of repeated work task changes on brain and cognition Godde, B., Oltmanns, J., Voelcker-Rehage, C., Staudinger, U.M., Germany, USA</p> <p>Age differential performance under high cognitive and psychomotoric job demands. The example of helicopter pilots in the emergency service Müller, A., Herbig, B., Prohn, M., Nowak, D., Germany</p> <p>Neurobehavioral correlates of work-related impairments of cognitive functions and their restoration by formal cognitive training in older employees Gajewski, P.D., Falkenstein, M., Germany</p> <p>Effect of multitasking on error processing Weißbecker-Klaus, X., Ullsperger, P., Freude, G., Schapkin, S., Germany</p>	15.10 – 15.30 h	Effects of reward and punishment on saccadic control across adult lifespan Billino, J., Hitzel, E., Margolf-Hackl, S., Gegenfurtner, K., Germany	Birth cohort differences in fluid cognition in old age: comparisons of trends in levels and change trajectories over 30 years in three population-based samples Karlsson, P., Thorvaldsson, V., Skoog, I., Gudmundsson, P., Johansson, B., Sweden
		15.30 – 15.50 h	Awareness of action control in aging Bisiacchi, P.S., Cavazzana, A., Begliomini, C., Italy	Choice reaction time and accuracy are able to detect subtle cognitive decline in elderly people Lichtwark, I., Hay, M., Australia
		15.50 – 16.10 h	Effects of aging on proactive and reactive response inhibition Bloemendaal, M., Zandbelt, B.B., Wegman, J., van de Rest, O.R., Cools, R., Aarts, E., Netherlands, USA	Age-related differences in the rapid integration of gains and losses Horn, S., Mata, R., Pachur, T., Germany, Switzerland
		16.10 – 16.30 h	Spatial Stroop and Negative Priming: not all inhibitory processes are impaired with aging Pires, L., Leitão, J., Simões, M.R., Guerrini, C., Portugal, UK	Risk taking propensity across the life span and around the world: a cross-cultural examination of 76 regions Mata, R., Josef, A.K., Hertwig, R., Switzerland, Germany
16.40 – 17.00 h	Panoramaforum			
	Coffee Break			

Thursday, 23.04.2015

	Silbersaal	Saal 9		Saal 10
	<p>Symposium</p> <p>Neural oscillations and aging: effects on perception, attention, and memory</p> <p>Myriam Sander & Markus Werkle-Bergner, Germany</p>	<p>Symposium</p> <p>Changes in brain structure and functioning: underlying mechanisms of manual performance decline in healthy aging</p> <p>Peter van Ruitenbeek, Belgium</p>		<p>Session</p> <p>Ergonomics & Driving</p> <p>Chair: Edmund Wascher, Germany</p>
17.00 – 18.30 h	<p>Introduction: Rhythmic Neural Activity and Aging Werkle-Bergner, M., Germany</p> <p>Neural oscillatory signatures in the ageing listener Obleser, J., Wöstmann, M., Henry, M.J., Germany</p> <p>Stuck in default mode: inefficient short-term memory-related neural synchronization in aging Pinal, D., Zurrón, M., Díaz, F., Sauseng, P., Spain, Germany</p> <p>Alpha modulation in the elderly is diminished during working memory maintenance Jensen, O., Leenders, M., de Weerd, P., Netherlands</p> <p>Alpha Power Modulations Related to Mechanisms of Memory Formation in Older Adults Sander, M.C., Fandakova, Y., Grandy, T.H., Lindenberger, U., Shing, Y.L., Werkle-Bergner, M., Germany</p>	<p>Factors contributing to impaired motor inhibition in healthy older adults: a multimodal perspective on the aging brain motor network Levin, O., Belgium</p> <p>Cortical grey matter volume predicting bimanual coordination performance varies across the life span van Ruitenbeek, P., Serbruyns, L., Beets, I.A.M., Solesio-Jofre, E., Meesen, R., Cuypers, K., Swinnen, S.P., Belgium</p> <p>Subcortical volumetric changes across the adult lifespan: subregional thalamic atrophy accounts for age-related sensorimotor performance declines Serbruyns, L., Leunissen, I., Huysmans, T., Cuypers, K., Meesena, R.L., van Ruitenbeek, P., Sijbers, J., Swinnen, S.P., Belgium</p> <p>Age-related changes in interhemispheric communication during the preparation of bimanual movements Fujiyama, H., Van Soom, J., Rens, G., Levin, O., Swinnen, S.P., Belgium</p> <p>Challenge to promote change: both young and older adults benefit from contextual interference Pauwels, L., Vancleef, K., Swinnen, S.P., Beets, I.A.M., Belgium</p>	17.00 – 17.20 h	<p>Age-robust cognitive ergonomic design of network diagrams in project management software: The effect of symmetry and spatial distances on graph comprehension Bützler, J., Bröhl, C., Schlick, C.M., Germany</p>
			17.20 – 17.40 h	<p>Driving errors typology of older drivers presenting a cognitive self-assessment bias: can a cognitive training program improve both self-assessment and driving performance? Hay, M., Adam, N., Bocca, M.-L., Gabaude, C., France</p>
			17.40 – 18.00 h	<p>The role of attentional withdrawal for the cognitive performance of older adults Wascher, E., Karthaus, M., Möckel, T., Getzmann, S., Germany</p>

Friday, 24.04.2015

	Silbersaal		Saal 9
	Symposium Age-related differences in associative memory: experimental boundaries and individual differences Yee Lee Shing, Germany		Session Hearing and Movement Chair: Stephan Getzmann, Germany
08.30 – 10.00 h	Structural brain correlates underpinning inter-individual differences in associative memory in older and younger adults Becker, N., Laukka, E.J., Kalpouzos, G., Bäckman, L., Brehmer, Y., Germany, Sweden Constraints on an age-related associative deficit for face-name pairs Bender, A.R., Raz, N., Germany, USA Antimnemonic effects of schemas in young and older adults Badham, S.P., Maylor, E.A., UK Age differences in the modulation of memory networks by representation quality Shing, Y.L., Fandakova, Y., Sander, M.C., Cabeza, R., Lindenberger, U., Werkle-Bergner, U., Germany, USA	08.30 – 08.50 h	Speech perception in a dynamic “cocktail-party” scenario in younger and older adults: Effects of cueing? Getzmann, S., Jasny, J., Falkenstein, M., Wascher, E. , Germany
		08.50 – 09.10 h	Mismatch negativity (MMN) - clinical highlights Näätänen, R., Finland, Estonia
		09.10 – 09.30 h	Cognitive control, chunking, and movement implementation in rapid finger sequencing: What changes with age and skill level? Krampe, R.T., Belgium
		09.30 - 09.50 h	Influence of age on the performance of aiming movements and postural stability Rinkenauer, G., Germany
10.00 – 10.20 h	Panoramaforum	Coffee Break	
10.20 – 11.20 h	Silbersaal	Keynote	
	K. Richard Ridderinkhof, Netherlands Neurocognitive Agility in Old Age: One Size Fits None		

Friday, 24.04.2015

11.20 – 11.50 h	Silbersaal	PRESENTATION OF POSTER AWARDS	
11.50 – 12.50 h	Panoramaforum	Lunch Break	
	Silbersaal		Saal 9
	Symposium Application of Near-Infrared Spectroscopy (NIRS) in studies on normal and pathological aging Martin J. Herrmann & Ann-Christine Ehlis, Germany		Session Disease, Aging & Cognition Chair: Rebecca Charlton, UK
12.50 – 14.20 h	Different aspects of the verbal fluency test in pathological aging assessed with functional Near-Infrared Spectroscopy (fNIRS) Zeller, J.B.M., Müller, L.D., Polak, T., Lauer, M., Deckert, J., Herrmann, M.J., Germany Low frequency oscillations in fNIRS are related to systemic oscillations and vary with cognitive load Claassen, J.A.H.R., Vermeij, A., Kessels, R.P.C., Netherlands Better prefrontal cortex oxygenation accounts for better executive performance as a function of cardiorespiratory fitness in older women Albinet, C.T., Mandrick, K., Bernard, P.L., Blain, H., Perrey, S., France Altered neuronal activity and connectivity in late-life depression with and without executive impairments: a NIRS study Rosenbaum, D., Metzger, F.G., Hagen, K., Heinzl, S., Fallgatter, A.J., Ehlis, A.-C., Germany	12.50 – 13.10 h	White matter tract integrity and mnemonic function in small vessel disease and healthy ageing Charlton, R.A., Brookes, R.L., UK
		13.10 – 13.30 h	Do cognitive challenges of adults with autism persist, abate or increase into old age? Lever, A.G., Geurts, H.M., Netherlands
		13.30 – 13.50 h	Metabolic Syndrome and Cognitive Function: gender differences in community dwelling older adults from Canada, Colombia, Brazil and Albania sites of the International Mobility in Aging Study (IMIAS) Morales, D., Gómez, F., Alvarado, B., García, A., Colombia, Canada
		13.50 - 14.10 h	EEG markers of early cognitive deterioration in healthy elderly individuals Deiber, M.-P., Meziane, H.B., Hasler, R., Rodriguez, C., Toma, S., Herrmann, F., Giannakopoulos, P., France, Switzerland
14.20 – 14.50 h	Panoramaforum	Coffee Break	

Friday, 24.04.2015

	Silbersaal		Saal 9
	Symposium Methodological approaches to and the underlying mechanisms of cognitive interventions to counter age-related cognitive decline Jerri D. Edwards, USA		Session Cognition II Chair: K. Richard Ridderinkhof, Netherlands
14.50 – 16.20 h	Investigating new avenues to promote healthy aging and independent living Ballesteros, S., Kraft, E., Santana, S., Tziraki, C., Spain, Germany, Portugal, Israel Bridging the efficacy gap between group- and home-based cognitive training Lampit, A., Baker, K., Giummarra, M., Georgiou-Karistianis, N., Valenzuela, M., Australia Distinct underlying neural correlates of computerized cognitive training approaches Edwards, J.D., O'Brien, J.L., Ross, A., Harrison, A., Lister, J.J., USA Natural and training-induced brain plasticity in healthy aging and in the prodromal phase of Alzheimer's disease Belleville, S., Mellah, S., Bier, B., Boller, B., Moffat, N., Canada	14.50 – 15.10 h	Age differentiated analysis of the hand proximity effect in a visual search paradigm Bröhl, C., Bützler, J., Schlick, C.M., Germany
		15.10 – 15.30 h	Aging does not increase deviance distraction in unimodal auditory and visual oddball tasks Leiva, A., Parmentier, F.B.R., Andrés, P., Spain
		15.30 – 15.50 h	Frontostriatal anatomical connections predict reinforcement learning success with increasing task difficulty and age van de Vijver, I., Ridderinkhof, K.R., Harsay, H., Reneman, L., Cavanagh, J.F., Buitenweg, J.I.V., Cohen, M.X., Netherlands, USA
		15.50 – 16.10 h	Differences in attentional networks between young and older adults: the impact of gender and mental activity Volf, N.V., Russia
18.00 Uhr	Social Evening at the Dortmunder U		

Saturday, 25.04.2015

	Silbersaal		Saal 9
	Symposium Insights on ageing and brain function from the Cambridge Centre for Ageing and Neuroscience Karen L. Campbell, UK		Session Memory II Chair: Robert M. Chapman, USA
08.30 – 10.00 h	Beyond the resting state: Age differences in neural networks identified during naturalistic viewing Campbell, K., Shafto, M., Wright, P., Tsvetanov, K., Cusack, R., Cam-CAN, Tyler, L., UK, Canada Changes in neural dynamics and functional systems in the aging brain Geerligs, L., Cam-CAN, Henson, R., UK fMRI studies of ageing: correction for the confounding effects of vascular reactivity evaluated by joint fMRI and MEG Tsvetanov, K.A., Henson, R.N.A., Tyler, L.K., Davis, S.W., Shafto, M., Taylor, J.R., Williams, N., Cam-CAN, Rowe, J.B., UK MEG in Cognitive Ageing Price, D., Henson, R., Treder, M., Cam-CAN, Tyler, L.K., UK	08.30 – 08.50 h	To Store or Not to Store: When Does the Brain Store Relevant Information in Short-Term Memory? Chapman, R.M., Gardner, M.N., USA
		08.50 – 09.10 h	Individual differences influence recalling recent autobiographical memories in old age Dipper, L., Zimprich, D., Germany
		09.10 – 09.30 h	The aging associative memory: the effects of unitization and item-item encoding Kamp, S.-M., Bader, R., Mecklinger, A., Germany
		09.30 – 09.50 h	Longitudinal Changes in Forgetting in Older Age - An Individual-Difference Approach Kurtz, T., Zimprich, D., Germany
10.00 – 10.20 h	Panoramaforum	Coffee Break	

Saturday, 25.04.2015

	Silbersaal		Saal 9
	Symposium The bright side of aging - Exploring the effects of genes, lifestyle and their interaction on cognition in the Berlin Aging Study II Sandra Düzel & Simone Kühn, Germany		Session EEG Chair: Juliana Yordanova, Bulgaria
10.20 – 11.50 h	The 'Subjective health horizon' and its association with social, cognitive and physical engagement Düzel, S., Gerstorf, D., Drewelies, J., Eibich, P., Demuth, I., Steinhagen-Thiessen, E., Wagner, G.G., Lindenberger, U., Germany Should I stay or should I go - navigation & environmental enrichment and brain aging Kühn, S., Düzel, S., Lindenberger, U., Germany Exploring genetic effects of episodic memory decline Li, S.-C., Düzel, S., Papernberg, G., Bertram, L., Lindenberger, U., Germany, Sweden You are what you eat - Food as cognitive enhancers - Exploring the effect of tyrosine and choline in food on cognitive performance and brain structure and function Colzato, L., Hommel, B., Selaro, R., Bertram, L., Liu, T., Steinhagen-Thiessen, E., Düzel, S., Kühn, S., Netherlands, Germany Cohort differences in psychosocial functioning Hülür, G., Gerstorf, D., Drewelies, J., Eibich, P., Düzel, S., Demuth, I., Ghisletta, P., Steinhagen-Thiessen, E., Wagner, G.G., Lindenberger, U., Germany, Switzerland	10.20 – 10.40 h	Aging-related reduction of oscillatory theta synchronization between medial frontal and motor regions during response generation Kolev, V., Yordanova, J., Bulgaria
		10.40 – 11.00 h	EEG oscillations as intelligence predictors: age effect Razumnikova, O.M., Volf, N.V., Belousova, L.V., Russia
		11.00 – 11.20 h	Error processing in aging is associated with altered lateral asymmetry of oscillatory motor networks operating in the theta frequency range Yordanova, J., Kolev, V., Bulgaria
11.50 – 12.50 h	Silbersaal	Keynote	
	Mike Martin, Switzerland Promoting Cognitive Health in Real Life Across the Lifespan: A Case for Reverse Transfer		

Saturday, 25.04.2015

12.50 – 13.40 h	<p align="center">Panoramaforum Lunch Break</p>		
	Silbersaal		Saal 9
	Symposium Prospective memory and aging Katharina Schnitzspahn, Switzerland		Session Interventions Chair: Kristina Küper, Germany
13.40 – 15.10 h	Relative influence of cue distinctiveness and focality on prospective memory performance in age Ballhausen, N., Schnitzspahn, K., Kliegel, M., Switzerland	13.40 – 14.00 h	Cognitive rehabilitation in Alzheimer's Disease Kasper, E., Hoffmann, W., Schneider, W., Teipel, S., Germany
	Do task-type and emotional valence moderate the age prospective memory paradox? Altgassen, M., Kvavilashvili, L., Schnitzspahn, K., Netherlands, Germany, UK, Switzerland	14.00 – 14.20 h	Effects of physical and cognitive training on task switching and interference processing in older adults Küper, K., Gajewski, P., Frieg, C., Falkenstein, M., Germany
	Effects of age on everyday memory: a diary study of prospective and retrospective memory errors in young and older adults Laughland, A., Kvavilashvili, L., UK	14.20 – 14.40 h	Lifestyle 2030: a large-scale lifestyle intervention study for the aging population Olfers, K.J.F., Zweedijk, M., Band, G.P.H., Hommel, B., Netherlands
	Let's get physical! Enacting intended actions in prodromal Alzheimer's disease Pereira, A., de Mendonça, A., Freeman, J.E., Ellis, J.A., UK, Portugal Age-related differences in electrophysiological correlates of prospective memory Cona, G., Kliegel, M., Hering, A., Bisiacchi, P.S., Italy, Switzerland		
15.10 h	<p align="center">Silbersaal Farewell</p>		

Poster Session
Thursday, 23.04.2015
14.10 – 15.10 h
Saal 8

General cognition, psychomotor and executive functions

1. **Proactive and reactive control in healthy ageing**
Berger, N., Davelaar, E.J., UK
2. **Age-related differences in task switching and task preparation: Exploring the role of task-set competition**
Cichecki, P., Schwarzkopp, T., Declerck, M., Reese, S., Koch, I., Germany
3. **Transcriptional control of cortical plasticity and neurosenescence by transcription factor NF- κ B**
Engelmann, C., Lehmann, K., Herrmann, K.-H., Bolz, J., Reichenbach, J.R., Weih, F., Haenold, R., Germany
4. **Young and older eyewitnesses recall in open answers to closed questions**
García-Bajos, E., Migueles, M., Azipurua, A., Spain
5. **Effects of aging on perception near the hands: the role of interactivity**
Grosjean, M., Le Bigot, N., Germany, France
6. **Assessment of cognitive performance online: a first report from the "Health, Aging and Retirement Transition in Sweden" - HEARTS Study**
Henning, G., Bjälkebring, P., Berg, A.I., Buratti, S., Hassing, L., Kivi, M., Thorvaldsson, V., Lindwall, M., Johansson, B., Sweden
7. **Age-related changes in functional connectivity during taste processing - an fMRI study**
Hoogeveen, H.R., Dalenberg, J. R., Renken, R.J., ter Horst, G.J., Lorist, M.M., Netherlands
8. **Effect of aging on multiple components of attention**
Hosseini, E., Thomas, M., Bock, O., Germany
9. **Age-related differences in a realistic process-control task**
Kalicinski, M., Dalecki, M., Steinberg, F., Bock, O., Germany, Canada
10. **Differences in alpha band lateralization between young adults and elderly when performing a lateralized delayed match-to-sample task**
Leenders, M., Soldevilla, D.L., Jensen, O., de Weerd, P., Netherlands

11. **A cross-sectional study of distraction by deviant sounds: different temporal dynamic of distraction in children, young and older adults**
Leiva, A., Andrés, P., Parmentier, F.B.R., Spain
12. **Dispersion in cognitive functioning: age differences across the lifespan**
Mella, N., Fagot, D., de Ribaupierre, A., Switzerland
13. **Effects of time on task in younger and older adults - an ERP study of mental fatigue**
Möckel, T., Beste, C., Wascher, E., Germany
14. **Aging effects on implicit and explicit representations of hand positions in tool use**
Rand, M.K., Heuer, H., Germany
15. **Neurobehavioral effects of prospective thinking on temporal discounting in old age**
Sasse, L., Peters, J., Büchel, C., Brassens, S., Germany
16. **Modulating the time course of context updating in older adults: the effect of a motivational mind-set on context processing**
Schmitt, H., Ferdinand, N.K., Kray, J., Germany
17. **Age-dependent decline in visuomotor adaptation: influence of divergent and convergent thinking**
Simon, A., Bock, O., Germany
18. **Age effects on time-varying complex networks during interference resolution**
Solesio-Jofre, E., Ariza, P., Martinez-Huartos, J., Pineda-Pardo, J.Á., Niso, G., Maestú, F., Buldú, J.M., Spain, Colombia, Canada
19. **The interrelationship between alexithymia and social cognition in young and older healthy adults**
Swierczek, M., Piefke, M., Germany
20. **Relationship satisfaction, adverse neighborhoods and cognitive functioning in older adults**
Wörn, J., Ellwardt, L., Aartsen, M., Huisman, M., Germany, Netherlands
21. **Evaluating the dedifferentiation hypothesis in cognitive and sensory performance across the full range of late adulthood: A micro-step approach**
Ihle, A., Oris, M., Fagot, D., Kliegel, M., Switzerland

Lifestyle, occupation, driving, interventions

22. **The association of leisure activities in middle adulthood with cognitive performance in old age: The moderating role of educational level and health status**
Ihle, A., Oris, M., Fagot, D., Baeriswyl, M., Guichard, E., Kliegel, M., Switzerland
23. **Complex visuo-motor training-induced neuroplasticity in older participants**
Bezzola, L., Binder, J., Rufener, K., Zöllig, J., Mérillat, S., Haueter, A., Martin, M., Jäncke, L., Switzerland
24. **Multi-domain cognitive training in healthy old age transfers to attention**
Binder, J., Shing, Y.L., Zöllig, J., Martin, M., Switzerland, Germany
25. **Executive training: effect of age and educational level on repeated practice of the Stroop test and of the Trail Making Test**
Burger, L., Fay, S., Angel, L., Tacconnat, L., France
26. **Effect of physical activity on episodic memory in aging population at different ages**
Canivet, A., Albinet, C., André, N., Audiffren, M., France
27. **The impact of physical activity and gender on intra-individual variability in inhibitory performance in older adults**
Fagot, D., Chicherio, C., Canivet, A., Albinet, C.T., André, N., Audiffren, M., Switzerland, France
28. **Relationship between cognitive abilities and the kinematics of the Timed Up-and-Go test in elderly people**
Giannouli, E., Zijlstra, W., Bock, O., Germany
29. **Who benefits from a cognitive training? Working memory training, transfer effects and influencing moderators in old age**
Hering, A., Bürki, C., Borella, E., Kliegel, M., Switzerland, Italy
30. **Brain training for older adults: Preferences, compliance and believes - user data of a brain training provider give insight in usage of older adults**
Hirth, R., Germany
31. **Effectivity of a technology-assisted neurorehabilitation program for older patients with chronic functional impairments - Preliminary results**
Kalisch, T., Frieg, H., Sommer, S., Germany
32. **Do careful and experienced older drivers need assistance in urban areas?**
Kazazi, J., Winkler, S., Vollrath, M., Germany
33. **Cycling as a way to improve cognitive function in older adults**
Leyland, L.-A., Spencer, B., Beale, N., Jones, T., van Reekum, C., UK

34. **Education: an almost forgotten resource in old age**
Schumacher, V., Zimmermann, K., Aschwanden, D., Zimprich, D., Martin, M.,
Switzerland, Germany
35. **How effective are in-vehicle speech-based warnings for older drivers?**
Schüttenhelm, J., Liebing, A., Nowak, P., Vollrath, M., Germany
36. **The benefits of the computerized cognitive trainings for fluid intelligence
in late and early adulthood**
Zajac-Lamparska, L., Trempala, J., Poland

Memory, learning, emotions, dementia

37. **The significance of caudate volume for age-related associative memory
decline**
Bauer, E., Toepper, M., Gebhardt, H., Gallhofer, B., Sammer, G., Germany
38. **The impact of language on age differences in learning regularities**
Ferdinand, N.K., Kray, J., Germany
39. **Atypical working memory decline across the adult lifespan in autism
spectrum disorder: for better or worse?**
Lever, A.G., Werkle-Bergner, M., Brandmaier, A.M., Ridderinkhof, K.R.,
Geurts, H.M., Netherlands, Germany
40. **Association between one-year changes in cortical thickness and
memory performance in old age**
Mérillat, S., Liem, F., Schumacher, N., Martin, M., Jäncke, L., Switzerland
41. **Can dual task paradigms contribute to the differential diagnosis between
depression and mild cognitive impairment?**
Metzger, F.G., Eschweiler, G.W., Meyer, S., Ehrlis, A.C., Hobert, M.A., Berg,
D., Maetzler, W., Germany
42. **Prior knowledge biases and eyewitness false memories in young and
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