

Articles in Refereed Journals

- Preckel, K., Kanske, P., **Singer, T.** (2018). On the interaction of social affect and cognition: empathy, compassion and theory of mind. *Current Opinion in Behavioral Sciences*, 19, 1-6. doi:http://dx.doi.org/10.1016/j.cobeha.2017.07.010
- Kamp-Becker, I., Poustka, L., Bachmann, C., Ehrlich, S., Hoffmann, F., Kanske, P., Kirsch, P., Krach, S., Paulus, F.M., Rietschel, M., Roepke, S., Roesner, V., Schad-Hansjosten, T., **Singer, T.**, Stroth, S., Witt, S., & Wermter, AK. (2017). Study protocol of the ASD-Net, the German research consortium for the study of Autism Spectrum Disorder across the lifespan: From a better etiological understanding, through valid diagnosis, to more effective health care. *BMC Psychiatry* 17:206. doi: 10.1186/s12888-017-1362-7
- Böckler, A., Herrmann, L., Trautwein, F.-M., Holmes, T., & **Singer, T.** (2017). Know thy selves: Learning to understand oneself increases the ability to understand others. *Journal of Cognitive Enhancement*. doi: 10.1007/s41465-017-0023-6
- Hildebrandt, L., McCall, C., & **Singer, T.** (2017). Differential effects of attention-, compassion- and socio-cognitively based mental practices on self-reports of mindfulness and compassion. *Mindfulness*. doi:10.1007/s12671-017-0716-z
- Winter, K., Spengler, S., Bermpohl, F., **Singer, T.**, & Kanske, P. (2017). Social cognition in aggressive offenders: impaired empathy, but intact theory of mind. *Scientific Reports*, 7: 670. doi:10.1038/s41598-017-00745-0
- Lumma, A.-L., Böckler, A., Vrticka, P., & **Singer, T.** (2017). Who am I? Differential effects of three contemplative mental trainings on emotional word use in self-descriptions. *Self and Identity*, 1-22. doi:10.1080/15298868.2017.1294107
- Grosse Wiesmann, C., Schreiber, J., **Singer, T.**, Steinbeis, N., & Friederici, A. D. (2017). White matter maturation is associated with the emergence of Theory of Mind in early childhood. *Nature Communications*, 8:14692. doi:10.1038/ncomms14692
- Engen, H. G., Smallwood, J., & **Singer, T.** (2017). Differential impact of task relevance of emotion on three indices of prioritized processing for facial expressions of fear and anger. *Cognition & Emotion*, 31(1), 175- 184.
- Kok, B. E., & **Singer, T.** (2017). Effects of contemplative dyads on engagement and perceived social connectedness over 9 months of mental training: A randomized clinical trial. *JAMA Psychiatry*, 74(2), 126- 134.
- Bornemann, B., & **Singer, T.** (2017). Taking time to feel our body: Steady increases in heartbeat perception accuracy and decreases in alexithymia over 9 months of contemplative mental training. *Psychophysiology*, 54(3), 469- 482.
- Böckler, A., Sharifi, M., Kanske, P., Dziobek, I., & **Singer, T.** (2017). Social decision making in narcissism: Reduced generosity and increased retaliation are driven by alterations in perspective-taking and anger. *Personality and Individual Differences*, 104, 1- 7.
- Engen, H., Kanske, P., & **Singer, T.** (2017). The neural component-process architecture of endogenously generated emotion. *Social Cognitive and Affective Neuroscience*, 12(2), 197- 211.
- Kok, B. E., & **Singer, T.** (2017). Phenomenological fingerprints of four meditations: Differential state changes in affect, mind-wandering, meta-cognition and interoception before and after daily practice across nine months of training. *Mindfulness*, 8(1), 218- 231.
- Valk, S. L., Bernhardt, B. C., Böckler, A., Trautwein, F.-M., Kanske, P., & **Singer, T.** (2017). Socio-cognitive phenotypes differentially modulate large-scale structural covariance networks. *Cerebral Cortex*, 27, 1358- 1368.
- Grosse Wiesmann, C., Friederici, A. D., **Singer, T.**, & Steinbeis, N. (2016). Implicit and explicit false belief development in preschool children. *Developmental Science*. doi:10.1111/desc.12445
- Preckel, K., Kanske, P., **Singer, T.**, Paulus, F., & Krach, S. (2016). Clinical trial of modulatory effects of oxytocin treatment on higher-order social cognition in autism spectrum disorder: A randomized, placebo-controlled, double-blind and crossover trial. *BMC Psychiatry*, 16(1), 329.
- Engert, V., Koester, A. M., Riepenhausen, A., & **Singer, T.** (2016). Boosting recovery rather than buffering reactivity: Higher stress-induced oxytocin secretion is associated with increased cortisol

- reactivity and faster vagal recovery after acute psychosocial stress. *Psychoneuroendocrinology*, *74*, 111- 120.
- Kanske, P., Sharifi, M., Smallwood, J., Dziobek, I., & **Singer, T.** (2016). Where the narcissistic mind wanders: Increased self-related thoughts are more positive and future-oriented. *Journal of Personality Disorders*. doi:10.1521/pedi_2016_30_263.
- Molenberghs, P., Trautwein, F.-M., Böckler, A., **Singer, T.**, & Kanske, P. (2016). Neural correlates of metacognitive ability and of feeling confident: A large scale fMRI study. *Social Cognitive and Affective Neuroscience*, *11*(12), 1942- 1951.
- Trautwein, F.-M., **Singer, T.**, & Kanske, P. (2016). Stimulus-driven reorienting impairs executive control of attention: Evidence for a common bottleneck in anterior insula. *Cerebral Cortex*, *26*(11), 4136- 4147.
- Bornemann, B., Kok, B. E., Böckler, A., & **Singer, T.** (2016). Helping from the heart: Voluntary up-regulation of heart rate variability predicts altruistic behavior. *Biological Psychology*, *119*, 54- 63.
- Kanske, P., Schulze, L., Dziobek, I., Scheibner, H., Roepke, S., & **Singer, T.** (2016). The wandering mind in borderline personality disorder: Instability in self- and other-related thoughts. *Psychiatry Research*, *242*, 302- 310.
- Valk, S. L., Bernhardt, B. C., Böckler, A., Kanske, P., & **Singer, T.** (2016). Substrates of metacognition on perception and metacognition on higher-order cognition relate to different subsystems of the mentalizing network. *Human Brain Mapping*, *37*(10), 3388- 3399.
- Kanske, P., Böckler, A., Trautwein, F.-M., Parianen Lesemann, F. H., & **Singer, T.** (2016). Are strong empathizers better mentalizers? Evidence for independence and interaction between the routes of social cognition. *Social Cognitive and Affective Neuroscience*, *11*(9), 1382- 1392.
- Hoffmann, F., Banzhaf, C., Kanske, P., Bempohl, F., & **Singer, T.** (2016). Where the depressed mind wanders: Self-generated thought patterns as assessed through experience sampling as a state marker of depression. *Journal of Affective Disorders*, *198*, 127- 134.
- Tusche, A., Böckler, A., Kanske, P., Trautwein, F.-M., & **Singer, T.** (2016). Decoding the charitable brain: Empathy, perspective taking and attention shifts differentially predict altruistic giving. *The Journal of Neuroscience*, *36*(17), 4719- 4732.
- Hoffmann, F., Banzhaf, C., Kanske, P., Gärtner, M., Bempohl, F., & **Singer, T.** (2016). Empathy in depression: Egocentric and altercentric biases and the role of alexithymia. *Journal of Affective Disorders*, *199*, 23- 29.
- Böckler, A., Tusche, A., & **Singer, T.** (2016). The structure of human prosociality: Differentiating altruistically motivated, norm motivated, strategically motivated and self-reported prosocial behavior. *Social Psychological and Personality Science*, *7*(6), 530- 541.
- Corradi-Dell'Acqua, C., Tusche, A., Vuilleumier, P., & **Singer, T.** (2016). Cross-modal representations of first-hand and vicarious pain, disgust and fairness in insular and cingulate cortex. *Nature Communications*, *7*:10904. doi:10.1038/ncomms10904
- McCall, C., Hildebrandt, L., Hartmann, R., Baczkowski, B. M., & **Singer, T.** (2016). Introducing the Wunderkammer as a tool for emotion research: Unconstrained gaze and movement patterns in three emotionally evocative virtual worlds. *Computers in Human Behavior*, *59*, 93- 107.
- Zaki, J., Wager, T. D., **Singer, T.**, Keysers, C., & Gazzola, V. (2016). The anatomy of suffering: Understanding the relationship between nociceptive and empathic pain. *Trends in Cognitive Sciences*, *20*(4), 249- 259.
- Hildebrandt, L., McCall, C., Engen, H. G., & **Singer, T.** (2016). Cognitive flexibility, heart rate variability, and resilience predict fine-grained regulation of arousal during prolonged threat. *Psychophysiology*, *53*(6), 880- 890.
- Steinbeis, N., Haushofer, J., Fehr, E., & **Singer, T.** (2016). Development of behavioural control and associated vmPFC-DLPFC connectivity explains children's increased resistance to temptation in intertemporal choice. *Cerebral Cortex*, *26*(1), 32- 42.
- Bosworth, S. J., **Singer, T.**, & Snower, D. J. (2016). Cooperation, motivation and social balance. *The Journal of Economic Behavior and Organization*, *126*, 72- 94.

- Engen, H. G., & **Singer, T.** (2016). Affect and motivation are critical in constructive meditation. *Trends in Cognitive Sciences*, 20(3), 159- 160.
- McCall, C., Hildebrandt, L., Bornemann, B., & **Singer, T.** (2015). Physiophenomenology in retrospect: Memory reliably reflects physiological arousal during a prior threatening experience. *Consciousness and Cognition*, 38, 60- 70.
- Hoffmann, F., Köhne, S., Steinbeis, N., Dziobek, I., & **Singer, T.** (2016). Preserved self-other distinction during empathy in autism is linked to network integrity of right supramarginal gyrus. *Journal of Autism and Developmental Disorders*, 46(2), 637- 648.
- Steinbeis, N., Engert, V., Linz, R., & **Singer, T.** (2015). The effects of stress and affiliation on social decision-making: Investigating the tend-and-befriend pattern. *Psychoneuroendocrinology*, 62, 138- 148.
- Kanske, P., Böckler, A., Trautwein, F.-M., & **Singer, T.** (2015). Dissecting the social brain: Introducing the EmpaToM to reveal distinct neural networks and brain-behavior relations for empathy and Theory of Mind. *NeuroImage*, 122, 6- 19.
- Lamm, C., Silani, G., & **Singer, T.** (2015). Distinct neural networks underlying empathy for pleasant and unpleasant touch. *Cortex*, 70, 79- 89.
- Lumma, A.-L., Kok, B. E., & **Singer, T.** (2015). Is meditation always relaxing? Investigating heart rate, heart rate variability, experienced effort and likeability during training of three types of meditation. *International Journal of Psychophysiology* 97(1), 38- 45.
- Engen, H. G., & **Singer, T.** (2015). Compassion-based emotion regulation up-regulates experienced positive affect and associated neural networks. *Social Cognitive and Affective Neuroscience*, 10(9), 1291- 1301.
- McCall, C., & **Singer, T.** (2015). Facing off with unfair others: Introducing proxemic imaging as an implicit measure of approach and avoidance during social interaction. *PLoS One*, 10(2), e0117532. doi:10.1371/journal.pone.0117532
- Hoffmann, F., **Singer, T.**, & Steinbeis, N. (2015). Children's increased emotional egocentricity compared to adults is mediated by their difficulties in conflict processing. *Child Development*, 86(3), 765- 780.
- Bornemann, B., Herbert, B. M., Mehling, W. E., & **Singer, T.** (2015). Differential changes in self-reported aspects of interoceptive awareness through three months of contemplative training. *Frontiers in Psychology*, 5:1504. doi:10.3389/fpsyg.2014.01504
- Cooper, E. A., Garlick, J., Featherstone, E., Voon, V., **Singer, T.**, Critchley, H. D., et al. (2014). You turn me cold: Evidence for temperature contagion. *PLoS One*, 9(12), e116126. doi: 10.1371/journal.pone.0116126
- McCall, C., Steinbeis, N., Ricard, M., & **Singer, T.** (2014). Compassion meditators show less anger, less punishment, and more compensation of victims in response to fairness violations. *Frontiers in Behavioral Neuroscience*, 8:424. doi:10.3389/fnbeh.2014.00424
- Engert, V., Smallwood, J., & **Singer, T.** (2014). Mind your thoughts: Associations between self-generated thoughts and stress-induced and baseline levels of cortisol and alpha-amylase. *Biological Psychology*, 103, 283- 291.
- Singer, T.**, & Klimecki, O. (2014). Empathy and compassion. *Current Biology*, 24(18), R875- R878.
- Steinbeis, N., & **Singer, T.** (2014). Projecting my envy onto you: Neurocognitive mechanisms of offline emotional egocentricity bias. *NeuroImage*, 102(2), 370- 380.
- Steinbeis, N., Bernhardt, B. C., & **Singer, T.** (2014). Age-related differences in function and structure of rSMG and reduced functional connectivity with DLPFC explains heightened emotional egocentricity bias in childhood. *Social Cognitive and Affective Neuroscience*, 10(2), 302- 310. doi:10.1093/scan/nsu057
- Engert, V., Plessow, F., Miller, R., Kirschbaum, C., & **Singer, T.** (2014). Cortisol increase in empathic stress is modulated by social closeness and observation modality. *Psychoneuroendocrinology*, 45, 192- 210.

- Tusche, A., Smallwood, J., Bernhardt, B. C., & **Singer, T.** (2014). Classifying the wandering mind: Revealing the affective content of thoughts during task-free rest periods. *NeuroImage*, *97*, 107- 116.
- Engert, V., Merla, A., Grant, J. A., Cardone, D., Tusche, A., & **Singer, T.** (2014). Exploring the use of thermal infrared imaging in human stress research. *PLoS One*, *9*(3), e90782. doi:10.1371/journal.pone.0090782
- Bernhardt, B. C., Smallwood, J., Tusche, A., Ruby, F. J. M., Engen, H. G., Steinbeis, N., & **Singer, T.** (2014). Medial prefrontal and anterior cingulate cortical thickness predicts shared individual differences in self-generated thought and temporal discounting. *NeuroImage*, *90*, 290- 297.
- Klimecki, O. M., Leiberg, S., Ricard, M., & **Singer, T.** (2014). Differential pattern of functional brain plasticity after compassion and empathy training. *Social Cognitive and Affective Neuroscience*, *9*(6), 874- 879.
- Bernhardt, B. C., Klimecki, O. M., Leiberg, S., & **Singer, T.** (2014). Structural covariance networks of dorsal anterior insula predict females' individual differences in empathic responding. *Cerebral Cortex*, *24*(8), 2189- 2198.
- Bernhardt, B. C., Valk, S. L., Silani, G., Bird, G., Frith, U., & **Singer, T.** (2014). Selective disruption of socio-cognitive structural brain networks in autism and alexithymia. *Cerebral Cortex*, *24*(12), 3258- 3267.
- Ruby, F. J. M., Smallwood, J., Sackur, J., & **Singer, T.** (2013). Is self-generated thought a means of social problem solving? *Frontiers in Psychology*, *4*:962. doi: 10.3389/fpsyg.2013.00962
- Ruby, F. J. M., Smallwood, J., Engen, H., & **Singer, T.** (2013). How self-generated thought shapes mood – The relation between mind-wandering and mood depends on the socio-temporal content of thoughts. *PLoS ONE*, *8*(10), e77554. doi:10.1371/journal.pone.0077554
- Silani, G., Lamm, C., Ruff, C. C., & **Singer, T.** (2013). Right supramarginal gyrus is crucial to overcome emotional egocentricity bias in social judgments. *The Journal of Neuroscience*, *33*(39), 15466- 15476.
- Steinbeis, N., & **Singer, T.** (2013). The effects of social comparison on social emotions and behaviour during childhood: The ontogeny of envy and Schadenfreude predicts developmental changes in equity-related decisions. *Journal of Experimental Child Psychology*, *115*(1), 198- 209.
- Engen, H. G., & **Singer, T.** (2013). Empathy Circuits. *Current Opinion in Neurobiology*, *23*(2), 275- 282.
- Klimecki, O. M., Leiberg, S., Lamm, C., & **Singer, T.** (2013). Functional neural plasticity and associated changes in positive affect after compassion training. *Cerebral Cortex*, *23*(7), 1552- 1561.
- Smallwood, J., Ruby, F. J. M., & **Singer, T.** (2012). Letting go of the present: Task unrelated thought is associated with reduced delay discounting. *Consciousness and Cognition*, *22*(1), 1- 7.
- Przyrembel, M., Smallwood, J., Pauen, M., & **Singer, T.** (2012). Illuminating the dark matter of social neuroscience: Considering the problem of social interaction from philosophical, psychological, and neuroscientific perspectives. *Frontiers in Human Neuroscience*, *6*(190). doi:10.3389/fnhum.2012.00190
- Bernhardt, B. C., & **Singer, T.** (2012). The neural basis of empathy. *Annual Review of Neuroscience*, *35*, 1- 23.
- Ugazio, G., Lamm, C., & **Singer, T.** (2012). The role of emotions for moral judgments depends on the type of emotion and moral scenario. *Emotion*, *12*(3), 579–590.
- McCall, C., & **Singer, T.** (2012). The animal and human neuroendocrinology of social cognition, motivation and behavior. *Nature Neuroscience Review*, *15*(5), 681–688.
- Singer, T.** (2012). The past, present and future of social neuroscience: A European perspective. *NeuroImage*, *61*(2), 437–449.
- Steinbeis, N., Bernhardt, B. C., & **Singer, T.** (2012). Impulse control and underlying functions of the left DLPFC mediate age-related and age-independent individual differences in strategic social behavior. *Neuron*, *73*(5), 1040–1051.
- Hein, G., Lamm, C., Brodbeck, C., & **Singer, T.** (2011). Skin conductance response to the pain of others predicts later costly helping. *PLoS ONE*, *6*(8), e227559. doi:10.1371/journal.pone.00227559

- Lamm, C., Decety, J., & **Singer, T.** (2011). Meta-analytic evidence for common and distinct neural networks associated with directly experienced pain and empathy for pain. *NeuroImage*, 54(3), 2492–2502.
- Leiberg, S., Klimecki, O., & **Singer, T.** (2011). Short-term compassion training increases prosocial behavior in a newly developed prosocial game. *PLoS ONE*, 6(3), e17798. doi:10.1371/journal.pone.0017798
- Bird, G., Silani, G., Brindley, R., White, S., Frith, U., & **Singer, T.** (2010). Empathic brain responses in insula are modulated by levels of alexithymia but not autism. *Brain*, 133(5), 1515–1525.
- Hein, G., Silani, G., Preuschoff, K., Batson, C. D., & **Singer, T.** (2010). Neural responses to the suffering of ingroup- and outgroup members predict individual differences in altruistic helping. *Neuron*, 68(1), 149–160.
- Lamm, C., & **Singer, T.** (2010). The role of anterior insular cortex in social emotions. *Brain Structure & Function*, 214(5–6), 579–591.
- Singer, T.**, Critchley, H. D., & Preuschoff, K. (2009). A common role of insula in feelings, empathy and uncertainty. *Trends in Cognitive Sciences*, 13(8), 334–340.
- Singer, T.**, & Lamm, C. (2009). The social neuroscience of empathy. *The Year in Cognitive Neuroscience 2009: Annals of the New York Academy of Sciences*, 1156, 81–96.
- Singer, T.** & Steinbeis, N. (2009). Differential roles of fairness- and compassion-based motivations for cooperation, defection, and punishment. *Annals of the New York Academy of Sciences*, 1167, 41–50.
- Frith, C. D., & **Singer, T.** (2008). The role of social cognition in decision making. *Philosophical Transactions of the Royal Society of London. Series B, Biological sciences*, 363(1511), 3875–3886.
- Hein, G., & **Singer, T.** (2008). I feel how you feel but not always: The empathic brain and its modulation. *Current Opinion in Neurobiology*, 18(2), 153–158.
- Petrovic, P., Kalisch, R., Pessiglione, M., **Singer, T.**, & Dolan, R. J. (2008). Learning affective values for faces is expressed in amygdala and fusiform gyrus. *Social Cognitive and Affective Neuroscience*, 3(2), 109–118.
- Petrovic, P., Kalisch, R., **Singer, T.**, & Dolan, R. J. (2008). Oxytocin attenuates affective evaluations of conditioned faces and amygdala activity. *The Journal of Neuroscience*, 28(26), 6607–6615.
- Silani, G., Bird, G., Brindley, R., **Singer, T.**, Frith, C., & Frith, U. (2008). Levels of emotional awareness and autism: An fMRI study. *Social Neuroscience*, 3(2), 97–112.
- Singer, T.**, Snozzi, R., Bird, G., Petrovic, P., Silani, G., Heinrichs, M., & Dolan, R. J. (2008). Effects of oxytocin and prosocial behavior on brain responses to direct and vicariously experienced pain. *Emotion*, 8(6), 781–791.
- Seymour, B., Daw, N., Dayan, P., **Singer, T.**, & Dolan, R. (2007). Differential encoding of losses and gains in the human striatum. *The Journal of Neuroscience*, 27(18), 4826–4831.
- Seymour, B., **Singer, T.**, & Dolan, R. (2007). The neurobiology of punishment. *Nature Reviews Neuroscience*, 8(4), 300–311.
- de Vignemont, F., & **Singer, T.** (2006). The empathic brain: How, when and why? *Trends in Cognitive Sciences*, 10(10), 435–441.
- Harrison, N. A., **Singer, T.**, Rotshtein, P., Dolan, R. J., & Critchley, H. D. (2006). Pupillary contagion: Central mechanisms engaged in sadness processing. *Social Cognitive and Affective Neuroscience*, 1(1), 5–17.
- Singer, T.** (2006). The neuronal basis and ontogeny of empathy and mind reading: Review of literature and implications for future research. *Neuroscience and Biobehavioral Reviews*, 30(6), 855–863.
- Singer, T.**, Seymour, B., O'Doherty, J. P., Stephan, K. E., Dolan, R. J., & Frith, C. D. (2006). Empathic neural responses are modulated by the perceived fairness of others. *Nature*, 439(7075), 466–469.
- Singer, T.**, & Fehr, E. (2005). The neuroeconomics of mind reading and empathy. *American Economic Review*, 95(2), 340–345.
- Singer, T.**, & Frith, C. (2005). The painful side of empathy: News & views. *Nature Neuroscience*, 8(7), 845–846.

Singer, T., Kiebel, S. J., Winston, J. S., Dolan, R. J., & Frith, C. D. (2004). Brain responses to the acquired moral status of faces. *Neuron*, 41(4), 653–662.

Singer, T., Seymour, B., O'Doherty, J., Kaube, H., Dolan, R. J., & Frith, C. D. (2004). Empathy for pain involves the affective but not sensory components of pain. *Science*, 303(5661), 1157–1162.

Singer, T., Lindenberger, U., & Baltes, P. B. (2003). Plasticity of memory for new learning in very old age: A story of major loss? *Psychology and Aging*, 18(2), 306–317.

Singer, T., Verhaeghen, P., Ghisletta, P., Lindenberger, U., & Baltes, P. B. (2003). The fate of cognition in very old age: Six-year longitudinal in the Berlin Aging Study (BASE). *Psychology and Aging*, 18(2), 318–331.

Lindenberger, U., **Singer, T.**, & Baltes, P. B. (2002). Longitudinal selectivity in aging populations: Separating mortality-associated versus experimental components in the Berlin Aging Study (BASE). *Journal of Gerontology: Psychological Sciences*, 57B(6), P474–P482.

Baltes, P. B., & **Singer, T.** (2001). Plasticity and the aging mind: An exemplar of the biocultural orchestration of brain and behavior. *European Review*, 9(1), 59–76.

Chapters in Edited Volumes and Monographs

Singer, T. (2017). I feel your pain: the social neuroscience of empathy and compassion. In W. Hasenkamp, & J. R. White (Eds.), *The monastery and the microscope. Conversations with the Dalai Lama on Mind, Mindfulness, and the Nature of Reality*. New Haven and London: Yale University Press.

Chierchia, G., & **Singer, T.** (2016). The neuroscience of compassion and empathy and their link to prosocial motivation and behavior. In J.-C. Dreher, & L. Tremblay (Eds.), *Decision neuroscience - An integrative perspective* (pp. 247- 257). San Diego: Elsevier.

Engen, H. G., & **Singer, T.** (in press). Deconstructing social emotions: Empathy and compassion and their relation to prosocial behavior. In R. Davidson, A. Shackman, A. Fox, & R. Lapate (Eds.), *The nature of Emotion* (2nd ed.). New York, NY: Oxford University Press.

Engen, H. G., & **Singer, T.** (in press). Fighting fire with fire: Endogenous emotion generation as a means of emotion regulation. In R. Davidson, A. Shackman, A. Fox, & R. Lapate (Eds.), *The nature of Emotion* (2nd ed.). New York, NY: Oxford University Press.

Klimecki, O. M., & **Singer, T.** (in press). The compassionate brain. In *Handbook of compassion science*. New York, NY: Oxford University Press.

Vrticka, P., Favre, P., & **Singer, T.** (in press). Compassion and the brain. In P. Gilbert (Ed.), *Compassion: Concepts, research and applications*. London, UK: Routledge.

Singer, T. (in press). I feel your pain: The social neuroscience of empathy and compassion. In W. Hasenkamp, & J. R. White (Eds.), *The monastery in the microscope: Conversations with the Dalai Lama on mind, mindfulness, and the nature of reality*. New Haven, CT: Yale University Press.

Singer, T., Kok, B. E., Bornemann, B., Zurborg, S., Bolz, M., & Bochow, C. (2016). *The ReSource Project. Background, design, samples, and measurements*. (2nd ed.). Leipzig: Max Planck Institute for Human Cognitive and Brain Sciences.

Singer, T., Kok, B. E., Bornemann, B., Bolz, M., & Bochow, C. (2015). *The ReSource Project. Background, design, samples, and measurements*. (1st ed.). Leipzig: Max Planck Institute for Human Cognitive and Brain Sciences.

Kanske, P., Böckler, A., & **Singer, T.** (2015). Models, mechanisms and moderators dissociating empathy and Theory of Mind. In M. Wöhr, & S. Krach (Eds.), *Current Topics in Behavioral Neurosciences – Social Behavior from Rodents to Humans: Neural Foundations and Clinical Implications*.

Singer, T. (2015). Perspektiven der Empathie- und Compassion-Forschung. In J. Nida-Rümelin, I. Spiegel, & M. Tiedemann (Eds.), *Handbuch der Philosophie und Ethik* (pp. 256-264). Paderborn: Ferdinand Schöningh.

Singer, T., & Ricard, M. (Eds.) (2015). *Caring economics: Conversations on altruism and compassion, between scientists, economists, and the Dalai Lama*. New York: St Martin's Press.

Klimecki, O. M., & **Singer, T.** (2015). *Compassion*. In A. W. Toga (Ed.), *Brain mapping: An encyclopedic reference* (1st Edition). Oxford: Elsevier.

Singer, T., & Tusche, A. (2013). Understanding others: Brain mechanisms of Theory of Mind and empathy. In P. W. Glimcher (Ed.), *Neuroeconomics. Decision making and the brain* (2nd, pp. 513- 532). London, UK: Academic Press.

Leiberg, S., & **Singer, T.** (2013). Empathie. In E. Schroeger, & S. Koelsch (Eds.), *Enzyklopädie der Psychologie: Affektive und Kognitive Neurowissenschaft, Vol. 5, Kognition* (pp. 119- 154). Göttingen: Hogrefe.

Singer, T., & Bolz, M. (Eds.) (2013). *Compassion: Bridging practice and science*. Retrieved from <http://www.compassion-training.org>. Leipzig: Max Planck Institute for Human Cognitive and Brain Sciences.

Klimecki, O. M., Ricard, M., & **Singer, T.** (2013). Empathy versus compassion – Lessons from 1st and 3rd person methods. In T. Singer, & M. Bolz (Eds.), *Compassion: Bridging practice and science* (pp. 464-487). Retrieved from <http://www.compassion-training.org>. Leipzig: Max Planck Institute for Human Cognitive and Brain Sciences.

Bornemann, B., & **Singer, T.** (2013). A cognitive neuroscience perspective - The ReSource model. In T. Singer, & M. Bolz (Eds.), *Compassion: Bridging practice and science* (pp. 296- 324). Retrieved from <http://www.compassion-training.org>. Leipzig: Max Planck Institute for Human Cognitive and Brain Sciences.

Bornemann, B., & **Singer, T.** (2013). The ReSource training protocol. In T. Singer, & M. Bolz (Eds.), *Compassion: Bridging practice and science* (pp. 768- 792). Retrieved from <http://www.compassion-training.org>. Leipzig: Max Planck Institute for Human Cognitive and Brain Sciences.

Bornemann, B., & **Singer, T.** (2013). What we do (not) mean by training. In T. Singer, & M. Bolz (Eds.), *Compassion: Bridging practice and science* (pp. 54- 57). Retrieved from <http://www.compassion-training.org>. Leipzig: Max Planck Institute for Human Cognitive and Brain Sciences.

McCall, C., & **Singer, T.** (2013). Empathy and the brain. In S. Baron-Cohen, H. Tager-Flusberg, & M. Lombardo (Ed.), *Understanding other minds. Perspectives from developmental social neuroscience* (pp. 195- 213). New York: Oxford University Press.

Klimecki, O., & **Singer, T.** (2013). Empathy from the Perspective of Social Neuroscience. In J. Armony, & P. Vuilleumier (Eds.), *Handbook of Human Affective Neuroscience* (pp. 533- 551). New York: Cambridge University Press.

Singer, T., & Hein, G. (2012). Empathy in humans and animals: An integrative approach. In F. B. M. de Waal & P. F. Ferrari (Eds.), *The primate mind*. Cambridge, MA: Harvard University Press.

Klimecki, O., & **Singer, T.** (2012). Empathic distress fatigue rather than compassion fatigue? Integrating findings from empathy research in psychology and social neuroscience. In B. Oakley, A. Knafo, G. Madhavan, & D. S. Wilson (Eds.), *Pathological altruism* (pp. 368–383). New York, NY: Oxford University Press.

Frevert, U., & **Singer, T.** (2011). Empathie und ihre Blockaden. Über soziale Emotionen. In P. Gruss, & T. Bonhoeffer (Eds.), *Zukunft Gehirn. Neue Erkenntnisse, neue Herausforderungen* (pp. 121–146). Munich: C. H. Beck.

Singer, T., & Decety, J. (2011). Social neuroscience of empathy. In J. Decety, & J. T. Cacioppo (Eds.), *Handbook of social neuroscience*. New York, NY: Oxford University Press.

- Hein, G., & **Singer, T.** (2010). Neuroscience meets social psychology: An integrative approach to human empathy and prosocial behavior. In M. Mikulincer & P. R. Shaver (Eds.), *Prosocial motives, emotions, and behavior: The better angels of our nature* (pp. 109–125). Washington: American Psychological Association.
- Singer, T.**, & Leiberg, S. (2009). Sharing the emotions of others: The neural bases of empathy. In M. S. Gazzaniga (Ed.), *The Cognitive Neurosciences IV* (pp. 971–984). Cambridge, MA: MIT Press.
- Snozzi, R., & **Singer, T.** (2009). Empathie aus der Sicht der sozialen Neurowissenschaften [Empathy from a social neuroscientific perspective]. In J. Fehr, & G. Folkers (Eds.), *Gefühle zeigen: Manifestationsformen emotionaler Prozesse* (Edition Collegium Helveticum, Band 5, pp. 97–113). Zurich, Switzerland: Chronos Verlag.
- Lubell, M. (Rapporteur), Engel, C., Glimcher, P. W., Hastie, R., Rachlinski, J. J., Rockenbach, B., Selten, R., **Singer, T.**, & Weber, E. U. (2008). Institutional design: Capitalizing on the intuitive nature of decision making. In C. Engel & W. Singer (Eds.), *Strüngmann Forum report: Better than conscious? Decision making, the human mind, and implications for institutions* (pp. 413–432). Cambridge, MA: MIT Press.
- McCabe, K., & **Singer, T.** (2008). Brain signatures of social decision making. In C. Engel & W. Singer (Eds.), *Strüngmann Forum report: Better than conscious? Decision making, the human mind, and implications for institutions* (pp. 103–122). Cambridge, MA: MIT Press.
- Singer, T.** (2008). Understanding others: Brain mechanisms of theory of mind and empathy. In P. W. Glimcher, C. F. Camerer, E. Fehr, & R. A. Poldrack (Eds.), *Neuroeconomics: Decision making and the brain* (pp. 233–250). Amsterdam: Elsevier.
- Singer, T.** (2007). The neuronal basis of empathy and fairness. In G. Bock & J. Goode (Eds.), *Empathy and fairness* (pp. 20–30; discussion pp. 30–40, 89–96, 216–221). Chichester, UK: Wiley.
- Singer, T.**, & Frith, C. (2006). The emergence of the "social" in cognitive neuroscience: The study of interacting brains. In P. A. M. van Lange (Ed.), *Bridging social psychology: Benefits of transdisciplinary approaches* (pp. 97–102). Hillsdale, NJ: Lawrence Erlbaum Associates.
- Singer, T.**, & Kraft, U. (2004). Zum Mitfühlen geboren [Born to feel others' feelings]. *Gehirn & Geist: Das Magazin für Psychologie und Hirnforschung*, 4, 32–37. [Reprint in 2006: *Gehirn & Geist: Dossier*, 3, 80–85.]
- Singer, T.**, Wolpert, D., & Frith, C. (2004). Introduction: The study of social interactions. In C. Frith, & D. Wolpert (Eds.), *The neuroscience of social interaction: Decoding, imitating, and influencing the actions of others* (pp. xiii–xxvii). New York: Oxford University Press.
- Heckhausen, J., & **Singer, T.** (2001). Plasticity in human behavior across the lifespan. In N. J. Smelser & P. B. Baltes (Eds.-in-Chief), *International encyclopedia of social and behavioral sciences* (Vol. 17, pp. 11497–11501). Oxford: Elsevier.
- Singer, T.** (2000). *Testing-the-Limits in einer mnemonischen Fähigkeit: Eine Studie zur kognitiven Plastizität im hohen Alter* [Testing-the-Limits in a mnemonic technique: A study of cognitive plasticity in very old age]. Doctoral dissertation, Free University of Berlin. Retrieval from <http://www.diss.fu-berlin.de/2000/78>
- Singer, T.**, & Lindenberger, U. (2000). Plastizität [Plasticity]. In H.-W. Wahl, & C. Tesch-Römer (Eds.), *Angewandte Gerontologie in Schlüsselbegriffen* (pp. 39–43). Stuttgart: Kohlhammer.