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brain imaging, genetics, and computational modeling have set the stage for novel insights into the cognitive neuroscience of human development during childhood and adolescence. As the field has expanded, research in this area increasingly incorporates highly interdisciplinary approaches utilizing sophisticated imaging, behavioral, and genetic methodologies to map brain, cognitive, and affective/social development. The articles in this Research Topic will highlight both the recent advances and future challenges inherent in this burgeoning interdisciplinary

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field. We invite both review articles and original research reports that consider any of the broad spectrum of topics within the field of developmental cognitive neuroscience.

Brain disorders, including neurological and neuropsychiatric conditions, represent a challenge for public health systems and society at large. The limited knowledge of their biology hampers the development of diagnostic tools and effective therapeutics. A clear understanding of the mechanisms that underlie the onset and progression of

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brain disorders is required in order to identify new avenues for therapeutic intervention. Overlapping genetic risk factors across different brain disorders suggest common linkages and pathophysiological mechanisms that underlie brain disorders.

Methodological and technological advances are leading to new insights that go beyond traditional hypotheses. Taking account of underlying molecular, cellular and systems biology underlying brain function will play an important role in the classification of brain disorders in future. In this Research Topic, the

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latest advances in our understanding of biological mechanisms across different brain disorders are presented. The areas covered include developments in neurogenetics, epigenetics, plasticity, glial cell biology, neuroimmune interactions and new technologies associated with the study of brain function. Examples of how understanding of biological mechanisms are translating into research strategies that aim to advance diagnoses and treatment of brain disorders are discussed.

Could we understand, in

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biological terms, the unique and fantastic capabilities of the human brain to both create and enjoy art? In the past decade neuroscience has made a huge leap in developing experimental techniques as well as theoretical frameworks for studying emergent properties following the activity of large neuronal networks. These methods, including MEG, fMRI, sophisticated data analysis approaches and behavioral methods, are increasingly being used in many labs worldwide, with the goal to explore brain mechanisms corresponding to the artistic experience. The 37 articles composing this

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unique Frontiers Research Topic bring together experimental and theoretical research, linking state-of-the-art knowledge about the brain with the phenomena of Art. It covers a broad scope of topics, contributed by world-renowned experts in vision, audition, somatosensation, movement, and cinema. Importantly, as we felt that a dialog among artists and scientists is essential and fruitful, we invited a few artists to contribute their insights, as well as their art. Joan Miró said that “art is the search for the alphabet of the mind.” This volume reflects the state of the



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art search to understand neurobiological alphabet of the Arts. We hope that the wide range of articles in this volume will be highly attractive to brain researchers, artists and the community at large.

Perseverative cognition is defined as the repetitive or sustained activation of cognitive representations of past stressful events or feared events in the future and even at non-clinical levels it causes a “fight-or-flight” action tendency, followed by a cascade of biological events, starting in the brain and ending as peripheral stress responses.

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In the past decade, such persistent physiological activation has proven to impact individuals' health, potentially leading to somatic disease. As such, perseverative cognition has recently been proposed as the missing piece in the relationships between stress, psychopathology, and risk for health.

Perseverative cognition is indeed a hallmark of conditions such as anxiety and mood disorders that are at increased -though still unexplained- cardiovascular risk. Although the pivotal role of ruminative and worrisome thoughts in determining the onset and

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maintenance of psychopathological disorders has been acknowledged for a long time, its effects on the body via reciprocal influences between mental processes and the body's physiology have been neglected. Moreover, perseverative cognition is definitely not restricted to psychopathology, it is extremely common and likely even omnipresent, pervading daily life. The objective of the Research Topic is to provide an interdisciplinary examination of cutting-edge neuroscientific research on brain-body signatures of perseverative cognition in both healthy and

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psychopathological individuals. Despite the evident role of the brain in repetitive thinking and the assumption that our mind is embodied, brain-body pathways from perseverative cognition to health risk have remained largely unexplored.

Decades of brain imaging experiments have revealed important insights into the architecture of the human brain and the detailed anatomic basis for the neural dynamics supporting human cognition. However, technical restrictions of traditional brain imaging approaches including functional magnetic

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resonance tomography (fMRI), positron emission tomography (PET), and magnetoencephalography (MEG) severely limit participants' movements during experiments. As a consequence, our knowledge of the neural basis of human cognition is rooted in a dissociation of human cognition from what is arguably its foremost, and certainly its evolutionarily most determinant function, organizing our behavior so as to optimize its consequences in our complex, multi-scale, and ever-changing environment. The concept of natural cognition, therefore, should

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not be separated from our fundamental experience and role as embodied agents acting in a complex, partly unpredictable world. To gain new insights into the brain dynamics supporting natural cognition, we must overcome restrictions of traditional brain imaging technology. First, the sensors used must be lightweight and mobile to allow monitoring of brain activity during free participant movements. New hardware technology for electroencephalography (EEG) and near infrared spectroscopy (NIRS) allows recording electrical and hemodynamic brain activity while participants are

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freely moving. New data-driven analysis approaches must allow separation of signals arriving at the sensors from the brain and from non-brain sources (neck muscles, eyes, heart, the electrical environment, etc.). Independent component analysis (ICA) and related blind source separation methods allow separation of brain activity from non-brain activity from data recorded during experimental paradigms that stimulate natural cognition. Imaging the precisely timed, distributed brain dynamics that support all forms of our motivated actions and interactions in both

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laboratory and real-world settings requires new modes of data capture and of data processing. Synchronously recording participants' motor behavior, brain activity, and other physiology, as well as their physical environment and external events may be termed mobile brain/body imaging ('MoBI'). Joint multi-stream analysis of recorded MoBI data is a major conceptual, mathematical, and data processing challenge. This Research Topic is one result of the first international MoBI meeting in Delmenhorst Germany in September 2013. During an intense workshop



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researchers from all over the world presented their projects and discussed new technological developments and challenges of this new imaging approach. Several of the presentations are compiled in this Research Topic that we hope may inspire new research using the MoBI paradigm to investigate natural cognition by recording and analyzing the brain dynamics and behavior of participants performing a wide range of naturally motivated actions and interactions.

It is acknowledged that practice could induce rapid change or reorganization of

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the brain's cellular or neural networks as well as behaviors. Notably, practice relevant to mental or physical approach attracted great attention in this decade. It highlights profound significance both for human evolution and individual development. Specifically, acquiring fine motor skills is a crucial premise for human being to evolve to modern human by using tools in one side. In the other side, numerous evidences indicated that motor learning involved in limb and trunks promotes the development of individual brain in anatomy and functions. Hence, motor

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learning is also tightly associated with developmental plasticity. These studies on brain-mind-body practice illuminate a promising way in promoting human brain health. This editorial covers wide range of brain-mind-body practice forms to summarize recent new findings and development from behavioral, physiological, neurobiological and psychological science approaches. In this research topic, we addressed recent findings from theoretical as well as experimental perspective including contributions under the following three headings: 1)

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intervention studies to investigate the positive effect of brain-mind-body practice on cognition and relevant brain mechanism. The intervention pattern consisted of short-term practice ranging from few hours to several weeks; 2) cross-sectional studies using expert-novice paradigm to explore the behavioral and neural system change induced by extensive brain-mind-body practice; 3) the mediators influence the relationship between practice and health outcomes and 4) new viewpoints on brain-mind-body practice from theoretical perspectives. Here we

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briefly highlight these articles aiming to provide a deep understanding for the association between practice, plasticity and health for readers. Additionally, it offers new insights for developing possible practice interventions for clinical treatment of neurological dysfunction or disorders.

Brain function is under metabolic control, which in turn determines the equilibrium of homeostatic systems that affect neuronal and glial networks on the molecular, cellular, and systems levels. The collection of articles

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ranges from molecules and mechanisms involved in regulating homeostasis and neuronal excitability to therapeutic mechanisms tailored to restore homeostatic function. It also features neurological diseases and novel treatment approaches that are based on metabolic and homeostatic interventions. Together, the collection of articles outlines novel strategies to restore brain function in neurology and highlights limitations of conventional pharmacological approaches. We suggest that restoration of molecular and biochemical networks could lead to a new era of therapeutic

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Behavioral, language, and reasoning are expressions of neural functions par excellence, as the brain must draw on sensory modalities to gather information on the rest of the body and on the outer world. Cortical areas processing the identity and location of the sensory inputs were once thought to be organized, with some branches dedicated to complex features. Yet current studies have

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uncovered synergistic effects at early-stage cognitions as well as higher-level association areas. A less hierarchical functional architecture of the brain has emerged such that, irrespective of sensory modality, inputs are assigned to the best suited cortical substrate.

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