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hemispheric specialization allows for parallel processing of several complex mental operations like language and social cognition that are uniquely powerful in the human species we will mainly focus on language here because it is the key faculty for human communication right brain the human brain is split into two hemispheres right and left they are joined together by the corpus callosum a bundle of nerve fibers located in the middle of the brain hemispheric lateralization is the idea that each hemisphere is responsible for different functions starting with an overview of the historical origins of the concept of lateralization we briefly review recent evidence from anatomical and developmental studies that asymmetries in structural connectivity may be a critical factor shaping hemispheric specialization hemispheric specialization also referred to as cerebral dominance or lateralization of function is a defining characteristic of the organization of the human brain hemispheric specialization refers to the differential role of the left or right brain side in processing a specific neuronal task or behavior one hemisphere might be predisposed to adopt a function because of specific structural and or computational characteristics while hemispheric specialization hs certainly includes the phenomena of contralateral motor and sensory representation the concept most often arises in the context of higher cognitive or perceptual rather than more elementary sensorimotor functions hemispheric specialization hs is a hemisphere dependent relationship between a cognitive sensory or motor function and a set of brain structures it includes both the hosting by a given hemisphere of specialized networks that have unique functional properties and mechanisms that enable the inter hemispheric coordination necessary for hemispheric specialization of the human brain is a characteristic feature of functional cortical organization morphological functional metabolic and connectivity asymmetries of brain regions were traditionally correlated to optimal information processing language function visuospatial task attention and many aspects of emotion 2 hemispheric specialization allows for parallel processing of several complex mental operations like language and social cognition that are uniquely powerful in the human species we mainly focus on language here because it is the key faculty for human communication strong hemispheric specialization was observed in the association cortices including the lateral prefrontal inferior

parietal and temporal regions fig 2 visual somatosensory and motor cortices exhibited minimal hemispheric specialization hemispheric specialization mit opencourseware is a web based publication of virtually all mit course content ocw is open and available to the world and is a permanent mit activity hemispheric specialization hs is a hemisphere dependent relationship between a cognitive sensory or motor function and a set of brain structures it includes both the hosting by a given hemisphere of specialized networks that have unique functional properties and mechanisms that enable the inter hemispheric coordination necessary for specialization of the two hemispheres is general in vertebrates including fish frogs reptiles birds and mammals with the left hemisphere specialized to categorize information and control routine behavior males have stronger hemispheric specialization for verbal and spatial abilities than females the stronger specialization enhances spatial abilities while the more bilateral organization enhances verbal abilities the left and right sides of the brain are specialised to attend to different information to process sensory inputs in different ways and to control different types of motor behaviour this is referred to as hemispheric specialization or simply as brain lateralization is tokyo japan in the southern hemisphere or the northern hemisphere no tokyo is the capital city of japan all of japan is in the northern hemisphere northern hemisphere no tokyo is the capital city of japan all of japan is in the northern hemisphere hemispheric specialization hs is a hemisphere dependent relationship between a cognitive sensory or motor function and a set of brain structures it includes both the hosting by a given hemisphere of specialized networks that have unique functional properties and mechanisms that enable the inter japan lies within two different hemispheres the northern hemisphere and the eastern hemisphere the eastern hemisphere is the hemisphere with the most landmass of the hemispheres and has the largest human population the findings showed that the left hemisphere inferior frontal gyrus was the predominant activated side by the picture naming task while the right hemisphere superior parietal lobule was activated by the landmark task

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