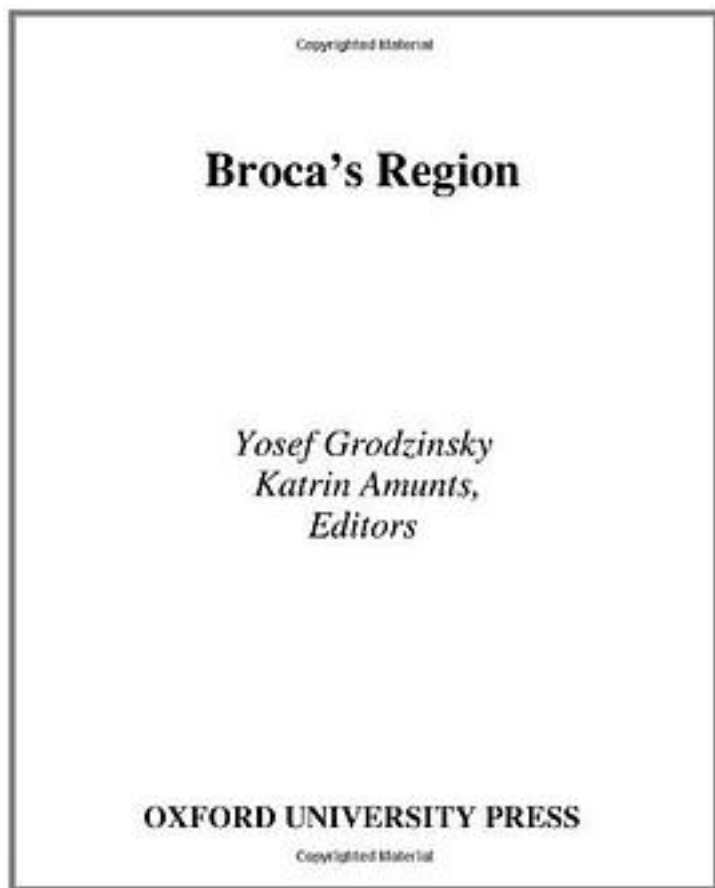


Broca's Region



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Broca's region has been in the news ever since scientists realized that particular cognitive functions could be localized to parts of the cerebral cortex. Its discoverer, Paul Broca, was one of the first researchers to argue for a direct connection between a concrete behavior--in this case, the use of language--and a specific cortical region.

Today, Broca's region is perhaps the most famous part of the human brain, and for over a century, has persisted as the focus of intense research and numerous debates. The name has even penetrated mainstream culture through popular science and the theater. Broca's region is famous for a good reason: As language is one of the most distinctive human traits, the cognitive mechanisms that support it and the tissues in which these mechanisms are housed are also quite complex, and so have the potential to reveal a lot not only about how words, phrases, sentences, and grammatical rules are instantiated in neural tissue, but also, and more broadly, about how brain function relates to behavior. Paul Broca's discoveries were an important, driving force behind the more general effort to relate complex behavior to particular parts of the cerebral cortex, which, significantly, produced the first brain maps. These early studies also, however, suffered from the use of crude techniques, definitions, and distinctions, as well as from ill founded and misdirected assumptions. Although much has been discovered since Broca's work, even today, these problems have not been completely solved. Nonetheless, particularly as a result of important advances made in neuroimaging during the past two decades, Broca's region and all language areas are currently being investigated from every angle. Indeed, as the volume of research into the relations between brain and language has created several communities, each with its own concepts, methods, and considerations, it seemed that it was time to stop, get together, and reflect on the state of the art. This book is the result of that collective reflection, which took place primarily at the Broca's Region Workshop, held in Julich and Aachen, Germany, in June 2004. In it, Yosef Grodzinsky and Katrin Amunts tried to accomplish a nearly impossible task: to mix intellectual traditions and cultures, and juxtapose rather disparate bodies of knowledge, styles of reasoning, and forms of argumentation. Participants were scientists with diverse backgrounds; each invited to contribute his/her particular take, with the hope that a coherent, perhaps even novel, picture would emerge. All of the participants have a special interest in Broca's Region, and represent the myriad angles from which we currently approach it: neuroanatomy, physiology, evolutionary biology, cognitive psychology, clinical neurology, functional imaging, speech and language research, computational biology, and psycho-, neuro-, and theoretical linguistics. The book's main chapters are the contributions of the Workshop's participants and their research teams. Parts of the discussion during the Workshop are included to underscore the richness of viewpoints, and to give readers an idea of the level of interaction that took place. As Broca's region is such an historically significant concept and rich area, this book contains a collection of classic and recent-yet-classic papers. Along with cutting-edge science, Grodzinsky and Amunts want to remind readers of the celebrated past from which much can be learned. The historical chapters include the first two papers written by Paul Broca, as well some work by two of the most important neurologists of the nineteenth century, Ludwig Lichtheim and John Hughlings-Jackson. Also included are parts of twentieth century papers by Korbinian Brodmann, Roman Jakobson, Norman Geschwind, Harold Goodglass, and Jay Mohr. Because this book both reflects the state of the art in Broca's-region research and contains a tribute to its celebrated past, it will be a valuable resource for student and professional researchers. It will also stimulate further interdisciplinary research, which is a significant contribution, as the project called "Broca's region," encompassing the study of brain/language relations, is far from finished.

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