The Relationships between Research and Development (R&D) Investment and Regional Economic Growth

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ABSTRACT The impact of R&D investment on economic growth has become a hot study in the economic geography and economics, and most of researchers observed that R&D investment has a significant impact on regional growth, and the positive correlation confirmed, however, the evaluation of R&D investment and spatial differences remain to be further studied. This paper is based on the model of Cobb-Douglas production function. With the help of the panel data of 110 cities between 1990-2013, the researchers build the relationship model of R&D investment and regional growth. The results show the long-term and stable relationship of R&D investment and regional economic growth. R&D talent plays more role in the process of regional economic growth, and the impact of R&D investment on regional economic growth show that there exists large differences in sample regions.