PRINT: ISSN 0972-0073 ONLINE: ISSN 2456-6802

## THE ANTHROPOLOGIST

International Journal of Contemporary and Applied Studies of Man



Anthropologist 31(1-3): 34-47 (2018) DOI: 10.31901/24566802.2018/31.1-3.1910

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

Xianzhong Cao<sup>1</sup>, Gang Zeng<sup>2</sup>, Tangwei Teng<sup>3\*</sup>, Lin Zou<sup>4</sup>

Center for Modern Chinese City Studies and Institute of Urban Development, East China Normal University, Shanghai, 200062, China E-mail: '<cao5956@163.com>, '<gzeng@re.ecnu.edu.cn>, '<zoulin200618@163.com>

**KEYWORDS** Economic Growth. Regional Innovation. Research and Development. Talent and Money. The Yangtze River Economic Zone

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.