

Publications and patenting: Panel data evidence of faculty members' behaviours at a large European research university

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This paper builds upon an empirical study of the determinants of publication and patenting performances at the faculty member level. The data concern more than nine hundred scholars observed from year 1995 to year 2000. During this period, they were employed by a large research University which is ranked first among French universities (in terms of impact) by the European Report on Science and Technology (2003), namely the University Louis Pasteur in Strasbourg (ULP). Our study is related to a series of recent and ongoing papers dedicated to explaining faculty members' behaviors (Agrawal and Henderson, 2002; Mairesse and Turner, 2002; Stephan et al., 2004; Carayol and Matt, 2004; Breschi et al., 2005). It addresses the issue of the fit of patenting behavior in an academic research context. We first investigate how both publications and patents relate to a series of individual attributes (gender, age, academic status, and discipline) and to the collective organization of research in their labs (laboratory size, staff composition). Thereby, we aim to provide some new evidence on the extent to which patenting is affected by the same determinants as publications. Moreover, in a fixed effects approach, we specifically study, for scholars that have invented at least one patent (article), the impact of their publications (patents) and of funding from public and private sources on the propensity to patent (publish).