

Figures

2.1	Harman's continuum of inter-institutional arrangements	22
2.2	Adapted from Harman's continuum of inter-institutional arrangements	41
3.1	World university ranking for papers in nature and science	61
5.1	Mean value and differentiation in PhD intensity of Finnish universities, 1994–2005	109
5.2	Mean value and differentiation in PhD intensity of Dutch universities, 1994–2004	111
5.3	Mean value and differentiation in PhD intensity of Swiss universities, 1994–2003	113
5.4	Mean value and differentiation in PhD intensity of British universities, 1996–2003	114
5.5	Mean value and differentiation in PhD intensity of Spanish universities, 1994–2002	116
5.6	Mean value and differentiation in PhD intensity of Italian universities, 2001–05	117
5.7	Comparative analysis of PhD intensity, all countries, 1994–2005	118
5.8	Comparative analysis of the differentiation index in PhD intensity, all countries, 1994–2005	119
6.1	Research orientation, average 2001–06	143
6.2	Density across research subjects, average 2001–06	147
6.3	Research productivity, average 2001–06	148
7.1	US universities by sources of R&D funding	165
7.2	Growth in the establishment of technology transfer offices after Bayh–Dole	168
7.3	R&D expenditures at universities and colleges funded by industry	170
7.4	Disclosures received and new US patents filed, AUTM, 2007	172
7.5	Growth of patents issued before and after Bayh–Dole	174
7.6	Highly skewed distribution of licensing revenues	176
7.7	University spinouts per year, 1993–2004	179
8.1	Academic patent applications, by country, 1978–2002	198
8.2	Technological distribution of academic patent applications, by country, 1994–2002	200

8.3a	Academic patent applications from France, Italy and Sweden, by technology and year	201
8.3b	University-owned patent applications from USA, by technology and year	202
8.4	Academic patent applications from France, Italy and Sweden, 1985–99, detail of most relevant classes	202
8.5	Academic patents as percentage of all patents by domestic inventors, 1985–99, detail of most relevant classes	203
8.6	Ownership of academic patents by domestic inventors in France, Italy, Sweden, and the USA, 1994–2001 (granted patents only)	204
8.7	Ownership of academic patents, selected technologies, 1994–2001	208
8.8	Ownership of academic patents, by year, 1981–2001	210
8.9	Weight of academic patents on total patents by domestic inventors, by country and type of ownership (1994–2001, granted patents only)	211
9.1	Conceptual model of the selection environment affecting individual researchers	222
9.2	Comparison of sample and population based on researcher categories	234
9.3	Commercialization frequency in different research fields	235
9.4a	Attitude towards commercialization, for individual and research group	236
9.4b	Attitude towards patenting, for individual and research group	237
9.4c	Attitude towards founding a company, for individual and research group	237
12.1	Four layers within the university: Who's competing?	314
12.2	Knowledge-intensive services creating open boundaries in the university	316