

Curriculum vitae

Maureen McKelvey

Professor of Industrial Management

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1. ACADEMIC DEGREES

- 1994 *Doctor of Philosophy (PhD), in Technology and Social Change, University of Linköping, Sweden 1994*
- 1989 *Masters of Science (MSc), in Science and Technology Policy, Lund University, Sweden*
- 1987 *Bachelor of Arts (BA), in Economics and Political Science, Rice University, USA*

2. PROFESSIONAL AND SOCIETAL IMPACT

2.1 PROFESSIONAL APPOINTMENTS

- Current *Professor, University of Gothenburg, Sweden*
Professor of Industrial Management, (from 2007-)
- Current *Deputy Head of Department of Economy and Society (from 2016-)*
- Head of Institute of Innovation and Entrepreneurship (from 2016-);*
Responsibilities: Member of departmental leadership team; Strategy, budget and personnel for Institute of Innovation and Entrepreneurship; Responsible for departmental research and research education in relation to the School
- Research responsibility at Institute (from 2010-)*
Responsibilities: PhD supervision; PhD training; The subject area at the Institute is Innovation, Entrepreneurship and Management of Intellectual Assets.
www.handels.gu.se/iie
- Current *Academic Director for Masters of Science in 'Knowledge based Entrepreneurship' (MSc, two year, English)*
Responsibilities: Quality work; course development; degree program development; societal interactions; annually 20-30 students enter. (from June 2013 -)

- Current *Research Fellow, IMIT.*
 IMIT is the Institute for Management of Innovation & Technology. IMIT facilitates research collaboration between companies and universities as well as with public policy makers. (from 2003 -).
- 2016 – 2007 *Academic Director for Masters of Science in 'Innovation and Industrial Management'* (MSc, two year, English)
 Responsibilities: Quality work; course development; degree program development; annually 30-60 students enter. (Sept 2007 to June 2016)
- 2014 *Visiting Researcher at SCANCOR, Stanford University, USA (October)*
- 2013 – 2003 *Invited Professor, teaching at the Cicalics PhD training Academy, Beijing and Hangzhou, China. 1 week per year*
- 2013 – 2008 *Director of Graduate School, School of Business, Economics and Law*
 Responsibilities: Strategic program development; Budget, Internationalization; Evaluations and benchmarking. The Graduate School was an independent unit. It had approximately 400 MSc students; 4 departments involved; 9 Master of Science programs; 11 dedicated administrators.
- 2011 – 2009 *Vice-Dean, School of Business, Economics and Law*
 Responsibilities: Member of School leadership team; Special responsibility for Graduate School
- 2008 – 2002 *Professor of Economics of Innovation, Department of Technology Management and Economics, Chalmers University of Technology, Sweden*
- 2008 – 2004 *Director of Research Center, on R&D, Innovation and Dynamics of Economies*
 February 2004–January 2008: *Member of Leadership team* of Research center.
 February/2004–December 2008: The Research Center RIDE was hosted by Chalmers University of Technology. RIDE was a Vinnova Center of Excellence under the auspices of IMIT.
- 2004 – 2003 *Innovator-in-Residence, University of Queensland, Australia (Nov 2003 to Jan 2004)*
- 2002 – 2000 *Associate Professor and Adjunct Professor of Industrial Dynamics, Chalmers University of Technology*
- 2002 *Visiting Researcher at SCANCOR, Stanford University, USA (July)*
- 2000 – 1999 *Researcher at the Australian Expert Group on Innovation Studies, University of Western Sydney, Australia (July 1999 – July 2000)*
- 2000 – 1996 *Associate Professor (1999-2000) and Assistant Professor (1996-1999) of Technology and Social Change, Linköping University, Sweden*
- 1996 *Habilitation (Docent) in Technology and Social Change, Linköping University*
- 1996 – 1994 *Researcher in Technology and Social Change, Linköping University, Sweden*

2.2 PROFESSIONAL: LOCAL LEADERSHIP IN MY FIELD

I was Professor at Chalmers University of Technology (6 years) before being recruited to the University of Gothenburg, where I am Professor of Industrial Management (10 years). I am now Deputy Head of Department of Economy and Society. As detailed above, I've taken on demanding academic leadership jobs. At Chalmers, I was Director of a VINNOVA Center of Excellence for 4 years. At the School of Business, Economics and Law, I was Vice-Dean for 3 years and also the Director for Graduate School for 6 years, with responsible for over 400 Masters students in all business school subjects.

In the last decade, I have led the design, creation and implementation of the Institute of Innovation and Entrepreneurship, by building a completely new research environment at the, together with colleagues at the School of Business, Economics and Law, at the University of Gothenburg. See www.handels.gu.se/ie. The Institute now has 22 researchers and 5 PhD students. I founded on the principle of integrating research with teaching and societal impact, within the subjects of innovation and entrepreneurship.

These phenomena engage different actors involved in the generation, diffusion and exploitation of ideas into business and societal innovations, including change of both existing firms as well as renewal of society through new firms and industries.

The Institute currently teaches 170 Masters students, who are enrolled in the highly successful Masters programs (2 year, English), "Innovation and Industrial Management" and "Knowledge-based Entrepreneurship". The Institute engages in extensive activities to impact firms and public policy. We also train PhD students and strive to make significant impact through our research.

3. RESEARCH

My research and results should greatly impact the transformation of society through knowledge, innovation and entrepreneurship by opening up new scientific breakthroughs; building upon extreme methodologies recently developing in social science research; and pioneering new approaches into the unknown.

NOTE: My full publication list is found at the end of this document.

3.1 MY RESEARCH FOCI

My research tackles vital issues of relevance to society, within the subject of Innovation and Entrepreneurship. In doing so, my research span Innovation Studies, Entrepreneurship and Evolutionary Economics which examines the causes, sources and consequences of knowledge and innovation processes (Nelson and Winter 1982; Fagerberg et al 2012; Martin 2012). Entrepreneurship is a distinct field from Innovation, but intertwining innovation and evolutionary economics perspective enables us to better understand both phenomena.

Universities driving business innovations and societal transformation

The field has focused upon universities and especially how science enables radical business innovations, causing industrial dynamics. McKelvey contributed by: explaining the new competitive mode of science-based companies like biotech dependent upon venture capital and large companies (McKelvey 1996); conceptualizing the specific roles of universities in the knowledge economy (Deiaco et al 2012;); analyzing commercialization in engineering (Bourellos et al 2012); and demonstrating why academic engagement is much more important than commercialization through patents and start-ups (Perkmann et al 2013). Recent work has focused upon social innovation

(McKelvey and Zaring 2017) and controversies in medical innovation (McKelvey et al 2018 forthcoming).

I now recognize that universities are only one source of radical knowledge, and hence my future research defines knowledge sources and types more widely.

Systems of innovation

The field developed the concept of powerful concept of “innovation systems”, widely used in public policy in Europe as well as a tool to organize empirical studies, and most recently of transition systems. McKelvey contributed by defining key processes within an innovation system (McKelvey 1991; McKelvey 1997; Edquist & McKelvey 2000); explaining the systemic effects of innovations on employment (Edquist et al 2001); analyzing the evolution of the pharmaceutical sectoral system of innovation (McKelvey et al 2004); and introducing how firms search in complex and uncertain environments (McKelvey 2016).

I now recognize that innovation systems approach is too static and descriptive, and hence my future research will use underlying the concepts but focus upon dynamics and explanations within entrepreneurial ecosystems and on knowledge intensive entrepreneurship.

The critical role of knowledge in industrial dynamics and entrepreneurship

The field emphasized the critical importance of knowledge in industrial dynamics and economic growth as well as more recently, in relation to entrepreneurship. McKelvey contributed by: conceptualizing knowledge intensive entrepreneurship and substantiating its importance (Malerba et al 2015; Malerba and McKelvey 2016) as well as the role of knowledge and innovation more broadly in entrepreneurship (Carlsson et al 2013; McKelvey et al 2015). The European Union as well as national governments use our concept of KIE as well as grand societal challenges, due to a series of very high profile EU initiatives (ESSY; KEINS; AEGIS; DIME; Business Panel on Future Innovation Policy; i4g).

I now recognize that knowledge is crucial but requires the entrepreneurial function to transform knowledge and that entrepreneurs are dependent upon a variety of relationships to respond to change in ways which create new knowledge intensive entrepreneurial ecosystems.

My research thus contributes through these foci, but also spans different empirical topics. Empirically, my research has focused on many areas – including engineering, medical innovation, biotechnology, pharmaceuticals, mobile telephones, automatic control, and open source software. More recently, I have focused more attention on cases relevant for sustainability and social innovation as well as at the overlap between engineering and health care (regenerative medicine and medical technology). My publications demonstrate a range of methodologies (case studies, network analysis, econometrics, etc.), as well as a systematic approach to developing new databases and conceptual frameworks. My research is trans-disciplinary over business, economics and social sciences, and highly relevant and interactive with members of engineering and scientific disciplines, given the above topics.

3.2 RESEARCH: KEY CONTRIBUTIONS TO ACADEMIC COMMUNITIES

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| Current | Member of Advisory Board for the Manchester Institute of Innovation Research, MOIR, University of Manchester (from 2011 -) |
| Current | Reviewer for numerous scientific journals in my field, many book publishers and several national and international research councils and research funding agencies |
| Current | Chairperson of Broman Foundation Selection Committee for post-doctoral scholars, (from 2008 -) |

- 2015 – 2009 Member of Prize Committee, ‘Global Prize for Entrepreneurship Research’
- 2014 – 2009 Member of Scientific council and of Management team for AEGIS, an EU FP-7 project on Knowledge-Intensive Entrepreneurship.
- 2012 – 2009 Member of Scientific Council for the Royal Swedish Academy of Engineering project (IVA) ‘Innovation for Growth’, an initiative bringing together the Academy, Ministers, Industrial leaders and researchers.
- 2014 – 2008 Member of Research Advisory Board for DRUID. DRUID stands for the international association for industrial dynamics
- 2012 – 2008 Member of Board for Scancor, Stanford University
- 2008 Chairperson of DRUID young scholar paper prize committee
- 2014 – 2006 Member of Advisory Board for Globelics
Globelics applies innovation system thinking to the problems and opportunities of the developing world.
- 2013 – 2002 Member of Research Advisory Board for Imperial Business School Innovation Studies Group, Imperial Business School, Imperial College, UK
- 2011 – 2002 Member of Executive Committee Member of DIME (EU)
- 2016 – 2002 Elected Board Member for the International Joseph A. Schumpeter society (2002 - 2006) and Member of prize committee for best research (2004, 2006, 2010, 2014, and 2016).
- 2007 – 2001 Member of Advisory Board for CRIC. CRIC was an ESRC Center of Excellence) Manchester University, UK
- 1996 Awarded International Joseph A. Schumpeter Society Prize, for my Oxford University Book *Evolutionary Innovations: The Business of Biotechnology*.
- 1998 – 1995 Elected Member of Steering Committee & Newsletter Editor, the European Association for Evolutionary Political Economy (EAEPE)

3.3 RESEARCH: KEY CONTRIBUTIONS TO POLICY MAKERS (RECENT)

- 2011 – 2013 Member of Expert group on Innovation for Growth, at European Union: RTD – DG Research and Innovation
- 2009 Commissioned report for VINNOVA (Sweden’s Innovation Agency)
Laage-Hellman, J.; McKelvey, M. and Johansson, M. (2009). *Analysis of Chain-linked Effects of Public Policy: Effects on Research and Industry in Swedish Life Sciences within Innovative Food and Medical Technology*.
- 2009 Rapporteur for Business Panel on Future Innovation Policy at the European Union: DG Enterprise and Industry
- 2009 Presentation on “Improving coordination between different policy areas at the European Level - towards a horizontal innovation policy?” at *Research and Innovation Policies - Exploiting synergies for Sustainable Growth in Europe*

Workshop organized by Vinnova in association with the Swedish EU presidency 2009, in Brussels.

- 2009 Presentation on “Innovation Policy for the Future” at *New world – new solutions* Swedish EU presidency, Lund Declaration 2009.
- 2008 Commissioned report for OECD, Bio-Economy of the Future
McKelvey, M. (2008). *Health Biotechnology: Emerging Business Models and Institutional Drivers*. OECD Project The Bio-Economy of the Future. Paris: OECD.
- 2007 Member of the Advisory Committee, Bio4EU. Committee chaired by Professor Cunningham, European Commission, Joint Research Centre, IPTS
- 2003 Report published by the Office of Health Economics, UK.
Alm, H., McKelvey, M., Massimo, R. (2003). ‘Does co-location matter? Knowledge collaboration in the Swedish biotechnology-pharmaceutical sector’ in Mestre-Ferrandiz, J. and Sussex, J. (eds) *Institutions for industrial competitiveness in the international pharmaceutical industry*. London: Office of Health Economics.
- 2002 Intervention for the Swedish Ministry of Industry and VINNOVA
Contribution to Innovation Policy for Sweden – Objectives, Rationales, Problems and Measures, our input was developed and published as Edquist, Charles. ‘Innovationspolitik för Sverige – mål, skäl, problem och åtgärder’. VINNOVA Forum (VFI 2002: 2).
- 1991 Commissioned report for the *Swedish Delegation on Productivity (Produktivitetsdelegation)* Edquist, C. and M. McKelvey (1991). ‘Högteknologiska produkter och produktivitet i svensk industri’. *Forskning, Teknikspridning och Produktivitet*, Expert Report number 10 to the National Productivity Delegation, 1991, 24 pages.
This report launched the concept of ‘Swedish paradox’, which later had great impact upon public debates.

Moreover, I have also been invited speaker on public policy about science policy and innovation policy in many countries, including China, Norway, Japan, United Kingdom, Singapore, and Australia.

4. TEACHING BASED ON RESEARCH EXCELLENCE

I have taken seriously that as a professor, I have a strong duty to the academic community by developing new knowledge, and by expanding knowledge through training at different levels of PhD, Masters and Bachelor.

4.1 TRAINING AND EVALUATION AT THE PHD LEVEL

At the PhD level, the purpose is to train future independent researchers. Much of teaching relates to training of PhD students through courses and supervision to become researchers, as well as evaluating the progress of other PhD students through the defense of their PhD theses.

My former PhD students use their knowledge in different ways. Some have gone on to become professors. Some work as advanced consultants and some with public policy related to innovation and

entrepreneurship. Five PhD students are currently active at the Institute of Innovation and Entrepreneurship.

I have also developed and given PhD level Courses (7, 5 credit) including: Institutions and Economic Growth; Advanced Research Methods in Innovation and Entrepreneurship; Evolutionary Economics, Regional Specialization and Institutions; Advanced Topics in Innovation and Entrepreneurship; Systematic Literature studies; Classical Readings in Innovation and Entrepreneurship.

Evaluation of PhD theses is an important part of developing and evaluating future researchers. I have served as examiner on numerous PhD review committees, in Sweden, and abroad (primarily in Norway, Denmark and UK).

4.2 TEACHING AND DEVELOPMENT AT THE MASTERS LEVEL

At the Masters level, the purpose is to train students at an advanced level to more deeply understand and better master a variety of theoretical concepts and hands-on techniques to tackle the advanced problems of today's society.

Our former Masters students work in a wide variety of jobs and countries. They work in the spectrum from large international companies to incubators and public policy to starting their own companies. A few become PhD students and take an academic career. Our Masters students come from a variety of fields, and they are primarily from economics, engineering, industrial engineering and business administration.

Due to the need to integrate technical knowledge with business and economics knowledge, I have led the development of three Masters of Science programs. All are two year MSc programs, taught in English, and with written thesis of 30 credits.

- *Management and Economics of Innovation* (MEI), Chalmers University of Technology. Co-developed with Mats Magnusson, now professor at the Royal Institute of technology, April 2004-Jan 2008.
- *Innovation and Industrial Management* (IIM) University of Gothenburg. Lead development work from August 2007 through July 2016.
- *Knowledge-based Entrepreneurship* (KBE), University of Gothenburg. Developed new courses and project work with GU Ventures and support from the local government (VGR). Leading development work from June 2013 through the present.

I have developed and taught the following Masters Courses (7,5 credit):

- Knowledge Intensive Entrepreneurship
- Innovation Management; Innovation and Structural Change
- Assessing Entrepreneurial Ideas
- Global Technology Management
- Economics of Innovation
- Research Methods
- Political Economy of Innovation
- Projects in Management and Economics of Innovation
- Technology Based Business Development.

Full List of Publications as of 2017-07-05

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JOURNAL ARTICLES

Broström, A. and McKelvey, M. (2017 forthcoming). “Engaging Experts: Science-policy interactions and the introduction of congestion charging in Stockholm”. *Minerva*.

DOI: Accepted for publication; awaiting publication

McKelvey, M. and Saemundsson, R. (2017 forthcoming). “An evolutionary model of sciencepolicy: Routines and the growth of knowledge in policy-making organisations.” *International Journal of Economics and Business Research*.

DOI: awaiting publication, in press / forthcoming article visible at

<http://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijebr>

McKelvey, M., Saemundsson, R. and Zaring, O. (2017 forthcoming). “A Recent Crisis in Regenerative Medicine: Analyzing Governance in Order to Identify Public Policy Issues.” *Science and Public Policy*.

DOI: Preliminarily accepted; awaiting publication and legal approval

McKelvey, M. and Zaring, O. (2017). “Co-delivery of Social Innovation: Exploring the university’s role in academic engagement with society”, *Industry and Innovation*. Published online 22 Feb 2017, pp. 1-18.

DOI: <http://dx.doi.org/10.1080/13662716.2017.1295364>

Bourellos, E., Beyhan B., and McKelvey, M (2017). “Is the Prominent Scientist also the One who Becomes an Inventor? A matching of Swedish academic pairs in nanoscience to examine the effect of publishing on patenting”, *Research Evaluation*. Published 23 March 2017. 26 (2), pp. 144-156.

DOI: <http://doi.org/10.1093/reseval/rvx004>

McKelvey, M. (2016). “Firms navigating through innovation spaces: A conceptualization of how firms search and perceive technological, market and productive opportunities globally”, *Journal of Evolutionary Economics*. 26: 785, pp. 785-802.

DOI: <http://doi.org/10.1007/s00191-016-0478-0>

McKelvey, M. & Ljungberg, D. (2016). “How public policy can stimulate the capabilities of firms to innovate in a traditional industry through academic engagement: The case of the Swedish food industry”, *R&D Management*. Published online 15 July 2016.

DOI: <http://doi.org/10.1111/radm.12224>

McKelvey, M and Rake, B. (2016). “Product Innovation Success Based on Cancer Research in the Pharmaceutical Industry: Co-publication Networks and the Effects of Partners”, *Industry & Innovation*. 23:5, pp. 383-406.

DOI: <http://doi.org/10.1080/13662716.2016.1150157>

Salter, A and McKelvey, M (2016). “Evolutionary analysis of innovation and entrepreneurship: Sidney G Winter, recipient of the 2015 global award for entrepreneurship research”, *Small Business Economics*. 47:1, pp. 1-14.

DOI: <http://doi.org/10.1007/s11187-016-9702-4>

Veiderpass, A and McKelvey, M (2016). “Evaluating the performance of higher education institutions in Europe: a nonparametric efficiency analysis of 944 institutions”, *Applied Economics*. 48:16, pp. 1504-1514.

DOI: <http://doi.org/10.1080/00036846.2015.1102844>

Dang, R. and McKelvey, M. (2016). “Knowledge management processes and the formation of entrepreneurial opportunities”, *Journal of Innovation Economics and Management*. 2016/1 (no 19), pp. 31- 59.

DOI <http://doi.org/10.3917/jie.019.0031>

McKelvey, M.; Zaring, O. and Ljungberg, D. (2015). “Creating innovative opportunities through research collaboration: A conceptual framework and illustration in engineering”, *Technovation*. May-June, Issue 39-40, pp. 26-36.

DOI: <http://doi.org/10.1016/j.technovation.2014.05.008>

Perkmann, M.; Tartari, V.; McKelvey, M.; Autio, E.; Broström, A.; D’Este P.; Fini, R.; Geuna, A.; Grimaldi, R.; Hughes, A.; Kitson, M.; Krabel, S.; Llerena, P.; Lissoni, F.; Salter, A.; Sobrero, M. (2013). “Academic Engagement and Commercialization: A review of the literature on university-industry relations”, *Research Policy*. 42 (2), March, pp. 423-442.

DOI: <http://doi.org/10.1016/j.respol.2012.09.007>

Holmén, M. and McKelvey, M. (2013). “Restless capitalism and the Economizing Entrepreneur”, *Economics of Innovation and New Technology*, 22:7, pp. 684-701.

DOI: <http://doi.org/10.1080/10438599.2013.795780>

Ljungberg, D.; Bourellos, E. and M. McKelvey (2013). “Academic Inventors, Technological Profiles and Patent Value: An analysis of academic patents owned by Swedish-based firms”. *Industry and Innovation*. 20(5), pp. 473-487.

DOI: <http://dx.doi.org/10.1080/13662716.2013.824193>

Carlsson, B., Braunerhjelm, P., McKelvey, M., Olofsson, C., Persson, L. and Ylinenpää, H. (2013). “The Evolving Domain of Entrepreneurship Research”, *Small Business Economics* December 41:4, pp. 913-930.

DOI: <http://dx.doi.org/10.1007/s11187-013-9503-y>

Deiaco, E.; Hughes, A. and McKelvey, M. (2012). “Universities as strategic actors in the knowledge economy”. *Cambridge Journal of Economics*. May, 36: 3, pp. 525-541.

DOI: <http://doi.org/10.1093/cje/bes024>

Bourellos, E.; Magnusson, M. and McKelvey, M. (2012). “Investigating the complexity facing academic entrepreneurs in science and engineering: the complementarities of research performance, networks and support structures in commercialization”, *Cambridge Journal of Economics*. May, 36:3, pp. 751-780.

DOI: <http://doi.org/10.1093/cje/bes014>

Ljungberg, D. and McKelvey, M. (2012). “What Characterizes Firms’ Academic Patents? Academic involvement in industrial invention in Sweden”, *Industry and Innovation*, 19 (7) pp 585-606.

DOI: <http://dx.doi.org/10.1080/13662716.2012.726808>

Broström, A; McKelvey, M. and Sandström, C. (2009). "Investing in Localized Relationships with Universities: What are the Benefits for R&D Subsidiaries of Multinational Enterprises?", *Industry & Innovation*. Feb, 16:1, pp. 59-78.

DOI: <http://dx.doi.org/10.1080/13662710902728076>

Lissoni, F; Llerena, P.; McKelvey, M.; and Sanditov, B. (2008). "Academic Patenting in Europe: Evidence on France, Italy from the KEINS database". *Research Evaluation*, Vol 16, June, pp. 87-102.

DOI: <http://doi.org/10.3152/095820208X287171>

Brink, J.; McKelvey, M. and Dahlander, L. (2007). "Developing Capabilities: An Analysis of Biotechnology in two Regions in Australia and Sweden", *European Planning Studies*, July, 15:6, pp. 727-751.

DOI: <http://dx.doi.org/10.1080/09654310701214176>

Holmén, M.; Magnusson, M. and McKelvey, M. (2007). "What are innovative opportunities?", *Industry and Innovation*, 14 (1) pp. 27-45.

DOI: <http://dx.doi.org/10.1080/13662710601130830>

Brink, J. and M. McKelvey (2006). "On the relationship between the evolution of technological firms and their knowledge development regimes", *Journal of Electronic Science and Technology of China*, Vol 4, No 4, December. Pp. 289-299.

Download at <http://www.ccs.asia.edu.tw/ezfiles/2/1002/img/510/0604-1.pdf>

Dahlander, L. and McKelvey, M. (2005). "The occurrence and spatial distribution of collaboration: Biotech firms in Gothenburg", *Technology Analysis & Strategic Management*, 17:4, pp. 409-431.

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McKelvey, M. and E. Bohlin (2005). "Introduction: Conditions for innovation in biotechnology and telecommunications", *Innovation: Organization and Management (formerly Innovation: Management, policy & practice)*, Feb, 7:1, pp. 1-6.

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DOI: <http://dx.doi.org/10.1080/03088830500062715>

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DOI: <http://dx.doi.org/10.5172/impp.2004.6.1.3>

McKelvey, M., Alm, H., and Massimo, R. (2003). "Does co-location matter for formal knowledge collaboration in the Swedish biotechnology-pharmaceutical sector?" *Research Policy*, March, 32:3, pp. 483-501

DOI: [https://doi.org/10.1016/S0048-7333\(02\)00020-3](https://doi.org/10.1016/S0048-7333(02)00020-3)

Dahlander, L. and McKelvey, M. (2003). "Proximity as a Factor in Biotechnology Research and Development" in Mitterlehner, R. (ed.) *Wirtschaft politische Blätter*. Österreichischer Wirtschaftsverlag, pp 331 – 337.

McKelvey, M (2001). "The Economic Dynamics of Software: Three Competing Business Models Exemplified though Microsoft, Netscape and Linux", *Economics of Innovation and New Technology*, 10:2-3, pp. 199-236.

DOI: <http://dx.doi.org/10.1080/10438590100000009>

McKelvey, M (1998). "Evolutionary Innovations: Learning, Entrepreneurship, and the Dynamics of the Firm", *Journal of Evolutionary Economics* July, 8:2, pp. 157-175.

DOI: <http://dx.doi.org/10.1007/s001910050060>

McKelvey, M (1997). "Coevolution in Commercial Genetic Engineering", *Industrial and Corporate Change*, September, 6:3, pp. 503-532.

DOI: <https://doi.org/10.1093/icc/6.3.503>

McKelvey, M. (1997). "Moving to Commercialization", published in *Transgenic Animals and Food Production*. *Kunglig Skogs- och Lantbruksakademiens Tidskrift* Årg. 136, No. 20.

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