Appendix B:

Doucouliagos, Hristos and Patrice Laroche.

Unions and Innovation: New insights from the cross-country evidence.

Industrial Relations, forthcoming

Studies included in the meta-analysis

- 1. Acs, Z. and Audretsch, D.B. 1987. Innovation in Large and Small Firms. *Economic Letters* 23: 109-112.
- 2. Acs, Z.J. and Audretsch, D.B. 1988. Innovation in Large and Small Firms: An empirical analysis. *American Economic Review* 78(4):678-690.
- 3. Addison, J.T. and Wagner, J. 1994a. UK Unionism and Innovative Activity: Some cautionary remarks on the basis of a simple cross-country test. *British Journal of Industrial Relations* 32(1):85-98.
- 4. Addison, J.T. and Wagner, J. 1994b. US Unionism and R&D Investment: Evidence From a simple cross-country test. *Journal of Labor Research* 15(2):191-197.
- 5. Allen, S. 1988. Productivity Levels and Productivity Change Under Unionism. *Industrial Relations* 27: 94-113.
- 6. Audretsch, D.B. and Graf von der Schulenburg, J.M. 1990. Union Participation, Innovation, and Concentration: Results from a simultaneous model. *Journal of Institutional and Theoretical Economics* 146: 298-313.
- 7. Betcherman, G. 1991. The Effects of Unions on the Innovative Behaviour of Firms in Canada. *Industrial Relations Journal* 22:142-251.
- 8. Betts, J.R., Odgers, C.W. and Wilson, M.K. 2001. The Effects of Unions on Research and Development: An empirical analysis using multi-year data. *Canadian Journal of Economics* 34(3): 785-806.
- 9. Blumenfeld, S.B. 2002. Do Trade Unions Stifle Innovation? Evidence from US manufacturing. *Labour, Employment and Work in New Zealand*.
- 10. Blundel, R., Griffith, R. and Van Reenen, J. 1999. Market Share, Market Value, and Innovation in a Panel of British Manufacturing Firms. *Review of Economics Studies* 66(3): 529-554.
- 11. Bronars, S. and Deere, D. 1993. Unionisation, Incomplete Contracting and Capital Investment. *Journal of Business* 66: 117-132.
- 12. Bronars, S., Deere, D.R. and Tracy, J. 1994. The Effects of Unions on Firm Behavior: An empirical analysis using firm-level data. *Industrial Relations* 33(4):426-451.
- 13. Connolly, R.A., Hirsch, B.T. and Hirschey, M. 1986. Union Rent Seeking, Intangible Capital and Market Value of the Firm. *Review of Economics and Statistics* 68: 567-577.
- 14. Drago, R. and Wooden, M. 1994. Unions, Innovations and Investment: Australian evidence. *Applied Economics* 26: 609-615.
- 15. Fitzroy, F.R. and Kraft, K. 1990. Innovation, Rent-Sharing and the Organization of Labor in the Federal Republic of Germany. *Small Business Economics* 2: 95-104.
- 16. Geroski, P.A. 1990. Innovation, Technological Opportunity, and Market Structure. *Oxford Economic Papers* 42: 586-602.

- 17. Hirsch, B.T. 1990. Innovative Activity, Productivity Growth and Firm Performance: Are labor unions a spur or a deterrent? *Advances in Applied Micro-Economics*, vol.5, Greenwich, Connect.: JAI Press, 69-104.
- 18. Hirsch, B.T. 1991. Labor Unions and the Economic Performance of Firms, WE Upjohn institute, Kalamazoo, Michigan.
- 19. Hirsch, B.T. 1992. Firm Investment Behavior and Collective Bargaining Strategy. *Industrial Relations* 31: 95-121.
- 20. Hirsch, B.T. and A.N. Link. 1987. Labor Union Effects on Innovative Activity. *Journal of Labor Research* VIII(4): 323-332.
- 21. Keefe, J. 1991. Do Unions Influence the Diffusion of Technology? *Industrial and Labor Relations Review* 44(2): 261-274.
- 22. Koeller, C.T. 1996. Union Membership, Market Structure, and the Innovation Output of Large and Small Firms. *Journal of Labor Research* XVII (4): 683-699.
- 23. Kraft, K., Stank, J. and Dewenter, R. 2011. Co-determination and Innovation. *Cambridge Journal of Economics*, 35(1): 145-72. We used the 2009 version published online.
- 24. Latreille, P.L. 1992. Unions and the Inter-Establishment Adoption of New Microelectronic Technologies in the British Private Manufacturing Sector. *Oxford Bulletin of Economics and Statistics* 54(1):31-51.
- 25. Lintner, V.G., Pokorny, M.J., Woods, M.M. and Blinkhorn, M.R. 1987. Trade Unions and Technological Change in the UK Mechanical Engineering Industry. *British Journal of Industrial Relations* 25: 19-29.
- 26. Machin, S. and Wadhwani, S. 1991. The Effects of Unions on Investment and Innovation: Evidence from WIRS. *Economic Journal* 102: 324-330
- 27. Menezes-Filho, N.A., Ulph, D. and Van Reenen, J. 1998a. The Impact of Unions on R&D: Empirical Evidence. *European Economic Review* 42(3-5): 919-930.
- 28. Menezes-Filho, N., Ulph, D. and Van Reenen, J. 1998b. R&D and Unionism: Comparative evidence from British Companies and establishments. *Industrial and Labor Relations Review* 52(1): 45-54.
- 29. Michie, J. and Sheehan, M. 1999. HRM Practices, R&D Expenditure and Innovative Investment: Evidence From the UK's 1990 Workplace Industrial Relations Survey (WIRS). *Industrial and Corporate Change* 8(2): 211-234.
- 30. Michie, J. and Sheehan, M. 2003. Labour Market Deregulation, Flexibility and Innovation. *Cambridge Journal of Economics* 27(1): 123-143.
- 31. Nair-Reichert, U. and Pomery, J. 1999. International R&D Rivalry and Export Market Shares of Unionised Industries: Some evidence from the US manufacturing sector, *Journal of International Economics* 49: 77-97.
- 32. Rogers, M. 2004. Networks, Firm Size and Innovation. *Small Business Economics* 22(2): 141-153.
- 33. Schnabel, C. and Wagner, J. 1992a. Unions and Innovative Activity in Germany. *Journal of Labor Research* 13(4):393-406.
- 34. Schnabel, C. and Wagner, J. 1992b. Unions and Innovation: Evidence from German micro-data. *Economic Letters* 39(3): 369-373.
- 35. Schnabel, C. and Wagner, J. 1994. Industrial Relations and Trade Union Effects on Innovation in Germany. *Labour* 8: 489-503.
- 36. Schulenburg, J.M. Graf von der and Wagner, J. 1990. Advertising, Innovation and Market Structure: A comparison of the United States of America and the Federal Republic of Germany, in Acs Z. and Audretsch, D.B. (eds.), *Innovation and Technological Change: An international comparison*, University of Michigan Press: Ann Arbor.

- 37. Taymaz, E. 1991. The Impact of Trade Unions on the Diffusion of Technology: The case of NC machine tools. *British Journal of Industrial Relations*, 29(2): 305-311.
- 38. Ulph, A. and Ulph, D. 1989. Labor Markets and Innovation. *Journal of the Japanese and the International Economy*, 3(4): 403-423.