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REFERENCES

Abella, M. (2006). Global competition for skilled workers and consequences. In C. Kuptsch & E. F. Pang (Eds.), *Competing for Global Talent* (pp. 11-32). Geneva: International Labor Organization (ILO), International Institute for Labour Studies (IILS).

Ackers, L. (2003). *Managing work and family life in peripatetic careers: The experiences of mobile women scientists in the EU*. Paper presented at the Symposium on Science Policy, Mobility and Brain Drain in the EU and Candidate Countries.

Ackers, L. (2005a). Moving people and knowledge: Scientific mobility in the European Union. *International Migration, 43*(5), 99-131.

Ackers, L. (2005b). Promoting scientific mobility and balanced growth in the European Research Area. *Innovation, 18*(3), 301-317.

Ackers, L. (2005c). Scientific Mobility Within the EU: Introduction to the special issue. *Innovation, 18*(3), 275-276.

Ackers, L. (2008). Internationalisation, Mobility and Metrics: A New Form of Indirect Discrimination? *Minerva, 46*(4), 411-435.

Al Ariss, A. (2010). Modes of engagement: migration, self-initiated expatriation, and career development. *Career Development International, 15*(4), 338-358.

Andresen, M., Al Ariss, A., & Walther, M. (2012). *Self-initiated expatriation: Individual, organizational, and national perspectives*: Routledge.

Anholt, S. (2002). Introduction. *Brand Management, 9*(4-5), 229-239.

Ashton, D., Lauder, H., & Brown, P. (2009). Developing a Theory of Skills for Global HR. In P. Sparrow (Ed.), *Handbook of International Human Resource Management: Integrating People, Process, and Context.* (pp. 321-339). Chichester: Wiley-Blackwell.

Auriol, L. (2010). *Careers of Doctorate Holders: Employment and Mobility Patterns. STI Working Paper 2010/4. Statistical Analysis of Science, Technology and Industry* Paris: OECD.

Auriol, L., Felix, B., & Fernandez-Polcuch, E. (2007). Mapping Careers and Mobility of Doctorate Holders. Draft Guidelines, Model Questionnaire and Indicators. In OECD (Ed.), *OECD Science, Technology and Industry Working Papers 2007/6* (pp. 107).

Auriol, L., Schaaper, M., & Felix, B. (2012). *Mapping Careers and Mobility of Doctorate Holders: Draft Guidelines, Model Questionnaire and Indicators – Third Edition", OECD Science, Technology and Industry Working Papers 2012/07*: OECD Publishing.

Baker, R., Brick, J. M., Bates, N. A., Battaglia, M., Couper, M. P., Dever, J. A., . . . Tourangeau, R. (2013). *Report of the AAPOR task force on non-probability sampling*: American Association for Public Opinion Research.

BAL Corporate Immigration. (2013). SPAIN - Decreased Minimum Salaries for EU Blue Card, Fast-Tracked Foreign Employees. Retrieved 10 December, 2013, from http://www.balglobal.com/News/NewsDetail/tabid/266/id/2975/language/en-US/SPAIN--Decreased-Minimum-Salaries-for-EU-Blue-Card-Fast-Tracked-Foreign-Employees.aspx

Barkley, D. L. (2008). Evaluations of Regional Competitiveness: Making a Case for Case Studies. *Review of Regional Studies, 38*(2), 121-143.

Bartholomew, S. (1997). National Systems of Biotechnology Innovation: Complex Interdependence in the Global System. *Journal of International Business Studies, 28*(2), 241-266. doi: 10.2307/155254

Bauder, H. (2008). Neoliberalism and the economic utility of immigration: Media perspectives of Germany's Immigration Law. *Antipode*, 55-78.

Beaverstock, J. (1990). New international labour markets: The case of professional and managerial labour migration within large chartered accountancy firms. *Area, 22*, 151-158.

Beaverstock, J. (1991). Skilled international migration: An analysis of the geography of international secondments within large accountancy firms. *Environment and Planning A, 23*, 1133–1146.

Beaverstock, J., & Smith, J. (1996). Lending Jobs to Global Cities: Skilled International Labour Migration, Investment Banking and the City of London. *Urban Studies, 33*(8), 1377-1394.

Becker, G. (1962). Investment in Human Capital. A Theoretical Analysis. *Journal of Political Economy, 70*, 9-49.

Becker, G. (1983). *Human Capital. A Theoretical and Empircal Analysis, with Special Reference to Education. Second Edition.* . Chicago and London: The University of Chicago Press & National Bureau of Economic Research.

Becker, L., Liebig, T., & Sousa-Poza, A. (2008). Migration Policy and Industrial Structure: The Case of Switzerland *International Migration, 46*(2), 81-107.

Beine, M., Docquier, F., & Rapoport, H. (2008). Brain Drain and Human Capital Formation in Developing Countries: Winners and Losers. *Economic Journal, 118*(528).

Bell, N. (2011). *Graduate Enrollment and Degrees: 2000 to 2010*. Washington DC: Council of Graduate Schools

Benton, M., & Petrovic, M. (2013). *How free is free movement? Dynamics and drivers of mobility within the European Union*. Brussels: Migration Policy Institute Europe.

Beoku-Betts, J. (2008). African Women Scientists and the Politics of Location: The Case of Four Sierra Leonean Women Scientists. *African & Asian Studies, 7*(4), 343-366.

Bhagwati, J. (2004). Chapter 14. International Flows of Humanity *In Defense of Globalization* (pp. 208-218). New York: Oxford University Press.

Black, R., Engbersen, G., Okólski, M., & Panţîru, C. (Eds.). (2010). *A Continent Moving West?* Amsterdam: Amsterdam University Press. IMISCOE Research Series.

Boekholt, P., Edler, J., Cunningham, P., & Flanagan, K. (2009). *Drivers of International collaboration in research. Final report*: Technopolis Group and Manchester Institute of Innovation Research.

Borjas, G. J. (1989). Self selection and earnings of immigrants. *American Economic Review, 77*, 531-553.

Borjas, G. J. (1994). The Economics of Migration. *Journal of Economic Literature, 32*(4), 1167-1717.

Borrell-Damian, L. (2009). *Collaborative Doctoral Education: University-Industry Partnerships for Enhancing Knowledge Exchange*. Brussels: European University Association.

Boschma, R. (2004). Competitiveness of Regions from an Evolutionary Perspective. *Regional Studies, 38*(9), 1001-1014. doi: 10.1080/0034340042000292601

Boschma, R. (2005). Proximity and innovation: a critical assessment. *Regional Studies, 39*, 61-74.

Boschma, R., Heimeriks, G., & Balland, P.-A. (2013). Scientific Knowledge Dynamics and Relatedness in Bio-Tech Cities: Utrecht University, Section of Economic Geography.

Bourdieu, P. (1986). The forms of capital. In J. Richardson (Ed.), *Handbook of theory and research in the sociology of education* (pp. 241-258.). Westport, CT: Greenwood Press.

Brown, P., Green, A., & Lauder, H. (Eds.). (2001). *High Skills. Globalization, Competitiveness, and Skill Formation*. Oxford: Oxford University Press.

Bruquetas-Callejo, M., Garcés-Mascareñas, B., Morén-Alegret, R., Penninx, R., & Ruiz-Vieytez, E. (2008). *Immigration and Integration Policy Making in Spain. IMISCOE Working Paper No. 21*. Amsterdam: IMISCOE.

Budd, L., & Hirmis, A. (2004). Conceptual Framework for Regional Competitiveness. *Regional Studies, 38*(9), 1015-1028. doi: 10.1080/0034340042000292610

Bunnell, T. G., & Coe, N. M. (2001). Spaces and scales of innovation, Progress in Human Geography 25 (4): 569-589. *Progress in Human Geography, 25*(4), 569-589.

Cañibano, C., & Woolley, R. (2015). Towards a Socio-Economics of the Brain Drain and Distributed Human Capital. *International Migration, 53*(1), 115-130. doi: 10.1111/imig.12020

Carrington, W. J., & Detragiache, E. (1998). *How big is the brain drain?* (I. M. Fund Ed.): International Monetary Fund Working Paper.

Castles, S., de Haas, H., & Miller, M. J. (2013). *The Age of Migration (5th Edition): International Population Movements in the Modern World*. New York: The Guilford Press.

Cerna, L. (2010). *Policies and practices of highly skilled migration in times of the economic crisis. ILO International Migration Papers No. 99*. Geneva: International Labour Office.

Cervantes, M., & Goldstein, A. (2008). Talent mobility in the global economy: Europe as a destination. In A. Solimano (Ed.), *The International Mobility of Talent. Types, Causes, and Development Impact* (pp. 298-337). Oxford & New York: Oxford University Press.

Chaloff, J., & Lemaître, G. (2009). Managing Highly-Skilled Labour Migration: A Comparative Analysis of Migration Policies and Challenges in OECD Countries. *OECD Social Employment and Migration Working Papers, 79*

Chiswick, B. R. (1978). The effects of Americanization on the earnings of foreign-born men. *Journal of Political Economy, 86*, 897-921.

Clifton, J. (2007). *Global Migration Patterns and Job Creation*. Washington D.C.: Gallup Poll.

Cobb-Clark, D. A., & Connolly, M. D. (1997). The worldwide market for skilled migrants. Can Australia compete? *International Migration Review, 31*(3), 670-693.

Collett, E. (2008). The Proposed European Blue Card System: Arming the Global War for Talent? *Migration Information Source*.

Collett, E., & Zuleeg, F. (2009). Soft, Scarce and Super Skills: Sourcing the Next Generation of Migrant Workers in Europe. In Bertelsmann Stiftung & Migration Policy Institute (Eds.), *Talent, Competitiveness and Migration. The Transatlantic Council on Migration* (pp. 337-361). Gütersloh: Verlag Bertelsmann Stiftung.

Committee on Prospering in the Global Economy of the 21st Century: An Agenda for American Science and Technology, National Academy of Sciences, National

Academy of Engineering, & Institute of Medicine. (2007). *Rising Above the Gathering Storm: Energizing and Employing America for a Brighter Economic Future* Washington DC: The National Academies Press.
Corolleur, C. D., Carrere, M., & Mangematin, V. (2004). Turning scientific and technological human capital into economic capital: the experience of biotech start-ups in France. *Research Policy, 33*(4), 631-642.
Critical I. (2006). *Biotechnology in Europe. 2006 Comparative Study. Critical I comparative study for EuropaBio*. Banbury, UK & Brussels: Critical I and Europabio.
Csedo, K. (2008). Negotiating skills in the global city: Hungarian and Romanian professionals and graduates in London. *Journal of Ethnic and Migration Studies, 34*(5), 802-823.
D'Costa, A. P. (2008). The international mobility of technical talent: Trends and development implications. In A. Solimano (Ed.), *The International Mobility of Talent: Types, Causes, and Development Impact* (pp. 44-83). Oxford & New York: Oxford University Press.
Danilowicz, E. (2007). Careers on the Move. *Nature, 449*(4), 1.
De Haas, H. (2011). The determinants of international Migration: Conceptualising policy, origin and destination effects. . Working paper no. 32, DEMIG project paper no. 2, Department of International Development, International Migration Institute, Oxford: University of Oxford.
Dean, D., & Fleckenstein, A. (2007). Keys to success for women in science. . In R. Burke & M. Mattis (Eds.), *Women and minorities in science, technology, engineering and mathematics: Upping the numbers* (pp. 28-44). Northampton, MA: Edward Elgar Publishing.
Delicado, A. (2010). Going abroad to do science: Mobility trends and motivations of Portuguese researchers. *Science Studies, 23*(2), 36-59.
Deloitte. (2013). Talent 2020: Surveying the talent paradox from the employee perspective - The view from the Life Sciences sector.
DeVoretz, D. J. (2003). *Asian Skilled-immigration Flows to Canada. A Supply-side Analysis*. Vancouver: Asia Pacific Foundation of Canada.
Díaz-Briquets, S., & Cheney, C. C. (2003). Foreign scientists at the national institutes of health: Ramifications of US immigration and labor policies. *The International Migration Review, 37*(2), 421-443.
Dobson, J., Latham, A., & Salt, J. (2009). *On the move? Labour migration in times of recession*: Policy Network.
Doherty, N., Richardson, J., Thorn, K., Al Ariss, A., & Crowley-Henry, M. (2013). Self-initiated expatriation and migration in the management literature: Present theorizations and future research directions. *Career Development International, 18*(1), 78-96.
Doomernik, J., Koslowski, R., & Thränhardt, D. (2009). *The Battle for the Brains. Why Policy is not Enough to Attract the Highly Skilled*. Washington DC: German Marshall Fund of the United States, Transatlantic Academy.
Dorigo, G., & Tobler, W. (1983). Push-pull migration laws. *Annals of the Association of American Geographers, 73*(1), 1-17.
Doronina, V. (2013). The Life Scientist Bubble. *Science Careers Section, Science.* Retrieved 7 November, 2013, from http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2013_08_28/caredit.a1300184

Doudeijns, M., & Dumont, J. (2003). *Immigration and labor shortages: Evaluation of needs and limits of selection policies in the recruitment of foreign labor*. Paper presented at the The Economic and Social Aspects of Migration, Brussels

Doyle, N., Hughes, G., & Wadensjö, E. (2006). *Freedom of Movement for Workers from Central and Eastern Europe. Experiences in Ireland and Sweden*. Stockholm: Swedish Institute for European Policy Studies.

Drucker, P. (1986). The changed world economy. *Foreign Affairs, 64*(4), 768-791

Drucker, P. (1999). Knowledge-worker productivity: the biggest challenge. *California Management Review, 41*(2), 79-94.

Drucker, P. F. (1992). *Managing for the Future*. Oxford: Butterworth-Heinemann

Dumont, J.-C., & Lemaitre, G. (2005). Counting immigrants and expatriates in OECD countries: A new perspective. Retrieved 4 March, 2015 http://www.oecd.org/dataoecd/34/59/35043046.pdf

Dumont, J.-C., & Zurn, P. (2007). Immigrant health workers in OECD countries in the broader context of highly skilled migration *OECD Sopemi 2007 Edition* (pp. 161-228). Paris: OECD.

Eaton, S. C., & Bailyn, L. (1999). Work and Life Strategies of Professionals in Biotechnology Firms. *The ANNALS of the American Academy of Political and Social Science, 562*(1), 159-173.

Editors, S. A. (2012). The World's Best Countries in Science. *Scientific American, 307*(4), 44-45.

Edler, J., Fier, H., & Grimpe, C. (2011). International scientist mobility and the locus of knowledge and technology transfer. *Research Policy, 40*(6), 791-805. doi: http://dx.doi.org/10.1016/j.respol.2011.03.003

Eggers, W. D., & Hagel, J. (2012). *Brawn from brains: Talent, policy and the future of American competitiveness* Deloitte University Press.

Eibl, G. (2005). The Swedish Research System at a Glance: Key Characteristics of a Success Story. Retreieved 4 March, 2015 from http://www.researchinsweden.se/Global/pdf/Swedish_R_n_D_at_a_Glance.pdf

Enzing, C., van der Giessen, A., van der Molen, S., Manicad, G., Reiss, T., Lindner, R., . . . Costa, J. (2007). *BioPolis Final Report. Inventory and analysis of national public policies that stimulate biotechnology research, its exploitation and commercialisation by industry in Europe in the period 2002–2005* (T. (NL), F. (DE) & S. (UK) Eds.): TNO (NL) - Fraunhofer (DE) – SPRU (UK).

Ernst & Young. (2012). What Europe has to offer biotechnology companies: Outlook for biotechnology in Europe 2012. Retrieved 4 March 2015 from http://www.ey.com/GL/en/Industries/Life-Sciences/Biotech-report-2012---Outlook-for-biotechnology-in-Europe

Ernst & Young, & EuropaBio. (2012). What Europe has to offer biotechnology companies: Unraveling the tax, financial and regulatory framework: EYGM Limited.

Esping-Andersen, G. (1990). *The Three Wolds of Welfare Capitalism*. Princeton, New Jersey: Princeton University Press.

Euractiv. (2007). *Member states still hesitant to welcome foreign researchers*. Brussels: Retrieved 4 March, 2015 from http://www.euractiv.com/en/science/member-states-hesitant-welcome-foreign-researchers/article-167646.

Euractiv. (2009). An EU 'Blue Card' for high-skilled immigrants? , Retrieved 4 March, 2015 from www.euractiv.com/en/socialeurope/eu-blue-card-high-skilled-immigrants/article-170986

EUROFOUND. (2006). Long-distance mobility in Europe: Getting the balance right Retrieved 4 March, 2015 from http://www.eurofound.europa.eu/pubdocs/2006/36/en/1/ef0636en.pdf
EUROFOUND. (2007). *Mobility in Europe - The Way Forward*. Dublin: European Foundation.
European Commission. (2003). 2002 European innovation scoreboard technical paper no.7: Biotechnology innovation scoreboard. Brussels: European Commission Enterprise Directorate-General.
European Commission. (2004). *Europe Needs More Scientists. Report by the High Level Group on Increasing Human Resources for Science and Technology in Europe*. Brussels: European Commission, Directorate General for Research
European Commission. (2007a). *Competitiveness of the European biotechnology industry*. Brussels: European Commission, Retrieved 4 March 2015 from http://ec.europa.eu/enterprise/sectors/biotechnology/files/docs/biotech_analysis_competitiveness_en.pdf
European Commission. (2007b). *Europe in the Global Research Landscape*. Brussels: European Commission.
European Commission. (2007c). *Monitoring Industrial Research: the 2007 EU Industrial R&D Investment Scoreboard* Luxembourg: European Communities.
European Commission. (2008). *The Employment in Europe Report 2008*. Brussels: European Communities.
European Commission. (2009a). *The 2009 EU Industrial R&D Investment Scoreboard*. Seville, Spain: European Commission Joint Research Centre.
European Commission. (2009b). *The World in 2025. Rising Asia and Socio-Ecological Transition*. Brussels: European Commission.
European Commission. (2009, June 18). The EU Blue Card Directive for employment of highly qualified third-country nationals enters into force. Press Release. Retrieved 18 June, 2009 from http://www.delrus.ec.europa.eu/en/news_1173.htm
European Commission. (2010). *European Competitiveness Report 2010*.
European Commission. (2013). *She Figures 2012: Gender in Research and Innovation. Statistics and Indicators*. Brussels: European Commission.
European Commission Directorate General Joint Research Centre. (2007). *Intra-EU mobility of researchers*. Seville: IPTS.
European Migration Network. (2007). Conditions of Entry and Residence of Third Country Highly-Skilled Workers in the EU. Synthesis Report.
European Migration Network. (2010). *Ad-Hoc Query on skilled immigration*: European Migration Network and European Commission.
European Migration Network. (2012). *Immigration of International Students: Spain*. Madrid: European Migration Network and European Commission.
European Migration Network. (2013). Attracting Highly Qualified and Qualified Third-Country Nationals, Synthesis Report: European Commission.
European Science Foundation. (2009). Research Careers in Europe – Landscape and Horizons. Strasbourg: European Science Foundation.
Ewers, M. C. (2007). Migrants, markets and multinationals: Competition among world cities for the highly skilled. *GeoJournal, 68*, 119-130.
Favell, A. (2003). Eurostars and Eurocities: Towards a Sociology of free moving professionals in Western Europe. Working Paper 71, The Center for Comparative Immigration Studies (CCIS), University of California, San Diego.

Ferro, A. (2004). Romanians abroad: a snapshot of highly skilled migration. *Higher Education in Europe, 29*(3), 381-392.
FierceBiotech.com. (2009). Sweden - Europe's Top 5 Biotech Hotspots from http://www.fiercebiotech.com/special-reports/sweden-europes-top-5-biotech-hotspots
Findlay, A. M. (1990). A migration channels approach to the study of high level manpower movements: a theoretical perspective. *International Migration, 28*, 15-23.
Florida, R. (2002). *The Rise of the Creative Class*. New York: Basic Books.
Florida, R. (2005). *The Flight of the Creative Class: The New Global Competition for Talent*. New York: Harper Business.
Fontes, M. (2007). Scientific mobility policies: How Portuguese scientists envisage the return home. *Science and Public Policy, 34*(4), 284-298.
Franzoni, C., Scellato, G., & Stephan, P. (2012). Foreign-born scientists: Mobility patterns for 16 countries. *Nature, 30*(12), 1250-1253.
Freeman, G. P., & Hill, D. K. (2006). Disaggregating immigration policy: The politics of skilled labor recruitment in the U.S. *Knowledge, Technology, & Policy, 19*(3), 7-21.
Fuhrman, C. N., Halme, D. G., O'Sullivan, P. S., & Lindstaedt, B. (2011). Improving Graduate Education to Support a Branching Career Pipeline: Recommendations Based on a Survey of Doctoral Students in the Basic Biomedical Sciences. *CBE Life Sciences Education, 10*(3), 239-249. doi: doi: 10.1187/cbe.11-02-0013
Gaillard, A. M. (2002). The mobility of human resources in science and technology in Sweden *International Mobility of the Highly Skilled: OECD Proceedings* (pp. 225-252). Paris: OECD.
Gaillard, A. M., & Gaillard, J. (1998). The International Circulation of Scientists and Technologists: A Win-Lose or Win-Win Situation? *Science Communication, 20*(1), 106-115.
Gannon, F. (2007). The downsides of mobility. *European Molecular Biology Organizations' (EMBO) Reports, 8*(4), 307. doi: doi:10.1038/sj.embor.7400949
Garvalov, B. K. (2007). Mobility is not the only way forward. *European Molecular Biology Organizations' (EMBO) Reports, 8*(5), 422. doi: doi:10.1038/sj.embor.7400969
Geddie, K. (2013). The Transnational Ties that Bind: Relationship Considerations for Graduating International Science and Engineering Research Students. *Population, Space and Place, 19*(2), 196-208. doi: 10.1002/psp.1751
Ghosh, B. (2005). Economic Effects of International Migration: A Synoptic Overview *World Migration 2005,* (pp. 163-182). Geneva: International Organization for International Migration (IOM).
Ghosh, B. (2011). *The Global Economic Crisis and Migration: Where Do We Go from Here?* Geneva: IOM and The Hague Process on Refugees and Migration.
Gill, B. (2005). Homeward bound? The experience of return mobility for Italian scientists. *Innovation, 18*(3).
Gladfelter, A. (2002). A Lab with a View: American Postdocs Abroad. *Cell Biology Education, 1*(4), 128-131. doi: 10.1187/cbe.02-07-0015
Glaser, B., & Strauss, A. (1967). *The Discovery of Grounded Theory: Strategies of Qualitative Research*. London: Wiedenfeld & Nicholson.

Glorius, B. (2009). *Hi Potentials - Bye Potentials. Exploring migration decisions of international educational migrants in Germany in the context of individual, social and structural factors*. Martin-Luther-University Halle-Wittenberg.

Glorius, B., Grabowska-Lusinska, I., & Kuvik, A. (Eds.). (2013). *Mobility in Transition: Migration Patterns after EU Enlargement*. Amsterdam: Amsterdam University Press.

Gordon, R. J. (2004). *Why was Europe left at the station when America's productivity train departed?* : Northwestern University and CEPR.

Grogger, J., & Hanson, G. H. (2008). Income Maximization and the Selection and Sorting of International Migrants.

Guellec, D., & Cervantes, M. (2002). International mobility of highly skilled wokers: From statistical analysis to policy formulation *International Mobility of the Highly Skilled* (pp. 71-98). Paris: OECD.

Guth, J. (2008). The Opening of Borders and Scientific Mobility: The Impact of EU Enlargement on the Movement of Early Career Scientists. *Higher Education in Europe, 33*(4), 395-410.

Guth, J., & Gill, B. (2008). Motivations in East-West doctoral mobility: Revisiting the question of brain drain. *Journal of Ethnic and Migration Studies, 34*(5), 825-841.

Hackett, E. J. (1987). Funding and Academic Research in the Life Sciences: Results of an Exploratory Study. *Science & Technology Studies, 5*(3/4), 134-147. doi: 10.2307/690435

Hall, P. A., & Soskice, D. (2001). *Varieties of capitalism: The institutional foundations of comparative advantage*. Oxford: Oxford University Press.

Hawthorne, L. (2009). The Growing Global Demand for Students as Skilled Migrants. In Bertelsmann Stiftung & Migration Policy Institute (Eds.), *Talent, Competitiveness and Migration. The Transatlantic Council on Migration* (pp. 362-398). Gütersloh: Verlag Bertelsmann Stiftung.

Heenan, D. (2005). *Flight Capital: The Alarming Exodus of America's Best and Brightest.* Mountain View, CA: Nicholas Breadley Publishing.

Heijs, J. (2011). *ERAWATCH Country Reports 2011: Spain*. Brussels: European Communities

Heimeriks, G., & Boschma, R. (2012). The path- and place-dependent nature of scientific knowledge production in biotech 1986-2008: Utrecht University, Section of Economic Geography.

Hodgson, J. (2006). Ten years of biotech gaffes. *Nature Biotechnology, 24*, 270-273.

Hofmann, M. (2012). Implementation and Impact of the Researchers Directive (Directive 2005/71/EC) *ICMPD Policy Brief*. Vienna: ICMPD.

Hollanders, H., & Es-Sadki, N. (2014). Innovation Union Scoreboard 2014. Report report prepared for the European Commission. European Commission Publications Office.

Human Frontier Science Program, & European Science Foundation. (2002). Toward a New Paradigm for Education, Training and Career Paths in the Natural Sciences *Report on a Meeting held in Strasbourg, France, November 29-30, 2001 on International Training and Support of Young Investigators in the Natural Sciences*. Strasbourg: Human Frontier Science Program and European Science Foundation.

Huovari, J., Kangasharju, A., & Alanen, A. (2001). *Constructing an index for regional competitiveness*. Helsinki: Pellervo Economic Research Institute Working Paper No. 44.

Institute of International Education. Atlas of Student Mobility. Retrieved 18 December, 2012, from www.iie.org/projectatlas
Institute of International Education. (2008). *Open Doors*. New York: Institute of International Education
International Organization for Migration, DG for Employment, & Social Affairs and Equal Opportunities of the European Commission. (2010). Migration and the Economic Crisis: Implications for Policy in the European Union. from www.labourmigration.eu
Inzelt, A. (n.d.). *Analysis of Researchers' Mobility in the Context of the European Research Area*.
Iredale, R. (2001). The migration of professionals: Theories and typologies. *International Migration, 39*(5), 7-26.
Jonkers, K. (2011). Mobility, productivity, gender and career development of Argentinean life scientists. *Research Evaluation, 20*(5), 411-421.
Jonkers, K., & Cruz-Castro, L. (2013). Research upon return: The effect of international mobility on scientific ties, production and impact. *Research Policy, 42*(8), 1366-1377. doi: http://dx.doi.org/10.1016/j.respol.2013.05.005
Jorgensen, D. L. (1989). The Methodology of Participant Observation. In D. L. Jorgensen (Ed.), *Participant Observation: A Methodology for Human Studies* (pp. 12-25). Thousand Oaks, CA: SAGE.
Jupp, V. (2006). Exploratory Research. In The SAGE Dictionary of Social Research Methods. Available from SAGE Publications, Ltd SAGE Research Methods Online, from SAGE Publications, Ltd http://srmo-dev.ifactory.com/view/the-sage-dictionary-of-social-research-methods/n75.xml
Kamat, S., Mir, A., & Mathew, B. (2004). Producing hi-tech: globalization, the state and migrant subjects. *Globalisation, Societies and Education, 2*(1), 5-23.
Kapur, D. (2001). Diasporas and technology transfer. *Journal of Human Development, 2*(2), 265-286.
Kapur, D., & McHale, J. (2005). *Give Us Your Best and Brightest: The Global Hunt for Talent and Its Impact on the Developing World*. Washington DC: Center for Global Development.
King, R., & Ruiz-Gelices, E. (2003). International student migration and the European 'year abroad': Effects on European identity and subsequent migration behaviour. *International Journal of Population Geography, 9*(3), 229-252.
Kitson, M., Martin, R., & Tyler, P. (2004). Regional Competitiveness: An Elusive yet Key Concept? *Regional Studies, 38*(9), 991-999. doi: 10.1080/0034340042000320816
Klee, H. (2001). Industry or Academia. This Is the Question! *Plant Physiology, 126*(3), 924-925
Kloosterman, R. C. (2010). Matching opportunities with resources: a framework for analysing (migrant) entrepreneurship from a mixed embeddedness perspective. *Entrepreneurship and Regional Development, 22*(1), 25-45.
Kloosterman, R. C., & Rath, J. (2001). Immigrant entrepreneurs in advanced economies. Mixed embeddedness further explored. *Journal of Migration and Ethnic Studies, 27*(2), 189-202.
Kloosterman, R. C., van der Leun, J., & Rath, J. (1999). Mixed Embeddedness. Immigrant businesses and informal economic opportunities. *International Journal of Urban and Regional Research, 23*(2), 253-267.

Koser, K. (2009). *The Impact of Financial Crises on International Migration: Lessons Learned*. Geneva: ILO.
Koser, K., & Salt, J. (1997). The geography of highly skilled international migration. *International Journal of Population Geography, 3*, 285-303.
Krings, T., Wickham, J., Bobek, A., & Salamońska, J. (2008). *Migrant Workers and the Irish software sector: A preliminary report from the Migrant Careers and Aspirations research project*. Dublin: Trinity College Dublin.
Krugman, P. (1994). Competitiveness: A dangerous obsession. *Foreign Affairs, 73*(2), 28-44.
Kuptsch, C. (2006). Students and talent flow -- the case of Europe: From castle to harbour? In C. Kuptsch & E. F. Pang (Eds.), *Competing for Global Talent* (pp. 33-61). Geneva: International Labor Organization (ILO), International Institute for Labour Studies (IILS).
Kuptsch, C., & Pang, E. F. (Eds.). (2006). *Competing for Global Talent*. Geneva: International Institute for Labor Studies, ILO.
Kuznetsov, Y., & Sabel, C. (2008). Global mobility of talent from a perspective on new industrial policy: Open migration chains and diaspora networks. In A. Solimano (Ed.), *The International Mobility of Talent. Types, Causes, and Development Impact* (pp. 84-113). Oxford: Oxford University Press.
Lam, A. (2011). What motivates academic scientists to engage in research commercialization: 'Gold', 'ribbon' or 'puzzle'? *Research Policy, 40*(10), 1354-1368. doi: http://dx.doi.org/10.1016/j.respol.2011.09.002
Laudel, G. (2005). Migration Currents Among the Scientific Elite. *Minerva: A Review of Science, Learning & Policy, 43*(4), 377-395.
Laudel, G. (2006). The art of getting funded: how scientists adapt to their funding conditions. *Science & Public Policy (SPP), 33*(7), 489-504.
Lauder, H., Brown, P., & Ashton, D. (2008). Globalisation, Skill Formation and the Varieties of Capitalism Approach. *New Political Economy, 13*(1), 19-35.
Lavenex, S. (2007). The competition state and highly skilled migration. *Society, 44*(2), 32-41.
Lee, E. S. (1966). A theory of migration. *Demography, 3*(1), 47-57.
Leung, M. (2001). Get IT going. New ethnic Chinese business. A case of Taiwanese-owned computer firms in Hamburg. *Journal of Ethnic and Migration Studies, 27*(2), 277-294.
Lijphardt, A. (1971). Comparative Politics and the Comparative Method. *The American Political Science Review, 65*(3), 682-693.
Liversage, A. (2009). Finding a path: Investigating the labour market trajectories of high-skilled immigrants in Denmark. *Journal of Ethnic and Migration Studies, 35*(2), 203-226.
Louët, S. (2003). EC measures member states' biotechnology innovation. *Bioenews* 2014, Retrieved 4 M arch, 2015 from http://www.nature.com/bioent/bioenews/052003/full/bioent744.html
Lucas, R. E. (1988). On the mechanics of economic development. *Journal of monetary economics, 22*(1), 3-42.
Mahroum, S. (1999). Competing for the highly skilled: Europe in perspective. *Science and Public Policy, 26*(1), 17-25.
Mahroum, S. (2000a). Highly skilled globetrotters: Mapping the international migration of human capital. *R&D Management, 30*(1).

Mahroum, S. (2000b). Scientific Mobility: An Agent of Scientific Expansion and Institutional Empowerment *Science Communication, 21*(4), 367-378.
Mahroum, S. (2000c). Scientists and global spaces. *Technology in society, 22*(4), 513-523.
Mahroum, S. (2001). Europe and the Immigration of Highly Skilled Labour. *International Migration, 39*(5), 27-43.
Mahroum, S. (2005). The international policies of brain gain: A review. *Technology Analysis & Strategic Management, 17*(2), 219-230.
Malecki, E. (2004). Jockeying for Position: What It Means and Why It Matters to Regional Development Policy When Places Compete. *Regional Studies, 38*(9), 1101-1120. doi: 10.1080/0034340042000292665
Malmberg, G. (1997). Time and space in international migration. In T. Hammar, G. Brochmann, K. Tamas & T. Faist (Eds.), *International Migration, Immobility and Development. Multidisciplinary Perspectives* (pp. 21-48). Oxford and New York: Berg.
Manning, S., Massini, S., & Lewin, A. Y. (2008). A Dynamic Perspective on Next-Generation Offshoring: The Global Sourcing of Science and Engineering Talent *Academy of Management Perspectives, 22*(3), 35-54.
Matloff, N. (2008). H-1Bs: Still not the best and brightest
McQuaid, J., Smith-Doerr, L., & Daniel J. Monti Jr. (2010). Expanding Entrepreneurship: Female and Foreign-Born Founders of New England Biotechnology Firms *American Behavioral Scientist, 53*(7), 1045-1063.
Mergent. (2004). *The Europe Biotechnology Sectors. A Company and Industry Analysis*. Charlotte, NC: Mergent Inc.
Merton, R. K. (1994). Opportunity structure: The emergence, diffusion, and differentiation of a sociological concept, 1930s to 1950s. In F. Adler & W. S. Lauder (Eds.), *The Legacy of Anomie Theory: Advances in Criminological Theory*. New Brunswick, NJ: Transaction.
Metz, T. (2002). *FUN! Leisure and Landscape*. Rotterdam: NAi Pubishers.
Meyer, J.-B. (2001). Network approach versus brain drain: Lessons from the diaspora. *International Migration, 39*(5), 91-108.
Meyer, J.-B., Kaplan, D., & Charum, J. (2001). Scientific nomadism and the new geopolitics of knowledge. *International Social Science Journal, 53*(168), 309-321.
Migration Policy Institute. (2008). Top 10 Migration Issues of 2008: Issue #1 — 'Buyer's Remorse' on Immigration Policy *Migration Information Source, December 2008.* Retrieved 4 March 2015 from http://www.migrationinformation.org/Feature/display.cfm?ID=710
Millard, D. (2005). The impact of clustering on scientific mobility: A case study of the UK. *Innovation, 18*(3), 343-359.
Morano-Foadi, S. (2005). Scientific mobility, career progression, and excellence in the European Research Area. *International Migration, 43*(5), 133-162.
Morano-Foadi, S. (2008). The Missing Piece of the Lisbon Jigsaw: Is the Open Method of Coordination Effective in Relation to the European Research Area? *European Law Journal, 14*(5), 635-654.
Morris, N., & Rip, A. (2006). Scientists' coping strategies in an evolving research system: the case of life scientists in the UK. *Science & Public Policy (SPP), 33*(4), 253-263.
Mosneaga, A., & Winther, L. (2013). Emerging Talents? International Students Before and After Their Career Start in Denmark. *Population, Space and Place, 19*(2), 181-195. doi: 10.1002/psp.1750

National Research Council (US) Committee on Dimensions, C., and Implications of Recent Trends in the Careers of Life Scientists. (1998). *Trends in the Early Careers of Life Scientists*. Washington DC: National Academies Press
National Science Board. (2012). *Science & Engineering Indicators 2012*. Arlington, VA: National Science Foundation (NSB 12-01).
New Economic Systems, & The Leonard Resource Group, I. (2004). The Biotechnology Industry. Identifying and Addressing Workforce Challenges in an Emerging Industry (pp. 68): Prepared for the U.S. Department of Labor, Employment and Training Administration, Business Relations Group.
Niessen, J., & Schibel, Y. (Eds.). (2005). *Immigration as a Labour Market Strategy. European and North American Perspectives*. Brussels Migration Policy Group.
Nonneman, W. (2007). *European Immigration and the Labor Market*: Migration Policy Institute & Bertelsmann Stiftung.
OECD. (1998). *Human Capital Investment: An International Comparison*. Paris: Organisation for Economic Co-Operation and Development.
OECD. (2002). *International Mobility of the Highly Skilled*. Paris: OECD.
OECD. (2007). Indicator C3 Who studies abroad and where? *Education at a Glance* (pp. 534-573). Paris: OECD.
OECD. (2008). *The Global Competition for Talent. Mobility of the Highly Skilled*. Paris: OECD.
OECD. (2009a). *International Migration Outlook. Sopemi 2009. Special Focus: Managing Labour Migration Beyond the Crisis*. Paris: OECD.
OECD. (2009b). *OECD Science, Technology and Industry Scoreboard: 2009*. Paris: OECD.
OECD. (2010). *Measuring Innovation: A New Perspective*. Paris: OECD.
OECD. (2012). *Education at a Glance 2012: OECD Indicators*: OECD Publishing.
OECD. (2013). Education database: Graduates by field of education. OECD Education Statistics Database.
Papademetriou, D., & Sumption, M. (2013). Attracting and Selecting from the Global Talent Pool — Policy Challenges Migration Policy Institute and Bertelsmann Stiftung.
Papademetriou, D. G., Somerville, W., & Tanaka, H. (2008). Talent in the 21st-Century Economy: Washington, DC: Migration Policy Institute. www. migrationpolicy. org/transatlantic/Talent.pdf.
Papademetriou, D. G., Somerville, W., & Tanaka, H. (2009). Talent in the 21st-Century Economy. In B. Stiftung & M. P. Institute (Eds.), *Talent, Competitiveness and Migration* (pp. 215-265). Gutersloh: Verlag Bertelsmann Stiftung.
Peng, W. (2010). Trends in biotech literature 2009. *Nat Biotech, 28*(9), 887-887.
Peri, G. (2005). *Skills and talent of immigrants: A comparison between the European Union and the United States. Paper 050304*. Berkeley, CA: Economics Department, University of California, Davis and International Institute, University of California, Los Angeles.
Peri, G. (2007). America's stake in immigration. *The Milken Institute Review*, 40-49.
Piore, M. J. (1979). *Birds of Passage: Migrant Labor and Industrial Societies*. Cambridge: Cambridge University Press.
Pontikakis, D., Fernández-Zubieta, A., Henriques, L., Moguérou, P., & Pietrogiacomo, M. P. d. (2009). *Towards a horizontal reading of the ERAWATCH inventory: a case study on policies in support of human resources for research*. Luxembourg:

European Commission, Joint Research Centre - Institute for Prospective Technological Studies & Directorate General Research.
Poot, J., Waldorf, B., & van Wissen, L. (Eds.). (2009). *Migration and Human Capital*. Oxon, UK: Edward Elgar.
Porter, M. E. (1990). *The Competitive Advantage of Nations*. New York: The Free Press.
Porter, M. E. (1998). *Competitive Advantage: Creating and Sustaining Superior Performance*. New York: Free press.
Porter, M. E. (2003). Building the Microeconomic Foundations of Prosperity *World Economic Forum World Competitiveness Report 2003-2004*. Basel: World Economic Forum.
Potì, B., & Reale, E. (2011). ERAWATCH Analytical country report 2010: Italy: European Commission.
Powell, W. W., & Jason, O.-S. (1998). Universities and the Market for Intellectual Property in the Life Sciences. *Journal of Policy Analysis and Management, 17*(2), 253-277. doi: 10.2307/3325660
PricewaterhouseCoopers. (2006). *Managing Mobility Matters* PricewaterhouseCoopers.
PwC. (2013). Biotech reinvented: Where do you go from here? , from http://www.pwc.com/gx/en/pharma-life-sciences/publications/biotech-reinvented.jhtml
Radu, D., & Straubhaar, T. (2012). Beyond 'Push-Pull': The Economic Approach to Modelling Migration. In M. Martinello & J. Rath (Eds.), *An Introduction to International Migration Studies: European Perspectives*. Amsterdam Amsterdam University Press.
Raghuram, P. (2013). Theorising the Spaces of Student Migration. *Population, Space and Place, 19*(2), 138-154. doi: 10.1002/psp.1747
Reiner, C. (2010). Brain competition policy as a new paradigm of regional policy: A European perspective. *Papers in Regional Science, 89*(2), 449-461.
Reiss, T., Lacasa, I. D., Mangematin, V., Corolleur, F., Enzing, C., Giessen, A. v. d., . . . Nesta, L. (2005). *Benchmarking of public biotechnology policy. Final report Contract no. FIF.20030837*: European Commission Enterprise Directorate General.
Rindoks, A., & Danilowicz, E. (2008). International Science Careers Survey: Staying a Step Ahead. *New Biotechnology, 25*(2-3), 125.
Rindoks, A., Penninx, R., & Rath, J. (2006). *Gaining from migration: What works in networks? Examining economically related benefits accrued from greater economic linkages, migration processes, and diasporas*. Amsterdam: IMISCOE Working Paper.
Roberts, K. (2009). Opportunity Structures: Then and Now. *Journal of Education and Work, 22* (5), 355-368.
Rodrik, D. (2001). Comments at the Conference on "Immigration Policy and the Welfare State" from http://ksghome.harvard.edu/~drodrik/papers.html
Romer, P. M. (1990). Endogenous technological change. *Journal of Political Economy, 98*(5), S71-S102.
Saiz, A. (2003). The impact of immigration on American cities: an introduction to the issues. *Business Review, Federal Reserve Bank of Philadelphia, Q4*, 14-23.
Salt, J. (1983-1984). High level manpower movements in Northwest Europe and the role of careers: An explanatory framework. *International Migration Review, 17*(4), 633-652.

Salt, J. (2005). Current Trends in International Migration in Europe (pp. 150). Strasbourg: Council of Europe.
Santerre, F. (2006). *Canadian biotechnology innovation scoreboard 2006*. Montreal & Quebec: Science-Metrix.
Sassen, S. (1991). *The Global City. New York, London, and Tokyo*. Princeton: Princeton University Press.
Sassen, S. (1995). *Transnational Economies and National Migration Policies*. Amsterdam: Institute for Migration and Ethnic Studies.
Sauermann, H., & Stephan, P. E. (2010). Twins or Strangers? Differences and Similarities between Industrial and Academic Science. *National Bureau of Economic Research Working Paper Series, No. 16113*.
Saxenian, A. (1999). *Silicon Valley's New Immigrant Entrepreneurs*. San Francisco: Public Policy Institute of California.
Saxenian, A. (2002). *Local and Global Networks of Immigrant Professionals in Silicon Valley*. San Francisco: Public Policy Institute of California.
Saxenian, A. (2005). From brain drain to brain circulation: Transnational communities and regional upgrading in India and China. *Studies in Comparative International Development (SCID), 40*(2), 35-61.
Saxenian, A., & Sabel, C. (2008). Roepke Lecture in Economic Geography Venture Capital in the "Periphery": The New Argonauts, Global Search, and Local Institution Building. *Economic Geography, 84*(4), 379-394.
Schiermeier, Q. (2011). Career choices: The mobility imperative. *Nature, 470*(7335), 563-564.
Schiffauerova, A., & Beaudry, C. (2011). Star scientists and their positions in the Canadian biotechnology network. *Economics of Innovation and New Technology, 20*(4), 343-366.
Schiller, D., & Diez, J. R. (2010). Local embeddedness of knowledge spillover agents: Empirical evidence from German star scientists. *Papers in Regional Science, 89*(2), 275-294.
Schmidt, V. (2002). The Futures of the European Capitalism. Oxford: Oxford University Press.
Scientific American Editors. (2009). *Scientific American Worldview: A Global Biotechnology Perspective* Retrieved from http://www.saworldview.com/
SCImagio Research Group. (2010). SIR: SCImagio Institutions Ranking. SIR World Report 2010. Life Sciences. Retrieved 3 May 2012, 2012, from http://www.scimagoir.com/pdf/ranking_world10_life_002.pdf
Sexton, J. (2012). State of the World's Science: A measure of creativity of a nation is how well it works with those beyond its borders. *Scientific American, 307*(4), 28-32.
Shachar, A. (2006). The race for talent: Highly skilled migrants and competitive immigration regimes. *New York University Law Review, 81*(April), 148-206.
Sjoberg, S., & Schreiner, C. (2010). The ROSE (The Relevance of Science Education) project. An overview and key findings. Retrieved 18 August 2010, from http://www.ils.uio.no/english/rose/network/countries/norway/eng/nor-Sjoberg-Schreiner-overview-2010.pdf
Skeldon, R. (2009). The race to attract mobile talent *Current History, 108*(717), 154-159.
Sociaal-Economische Raad (SER, Social-Economic Council), . (2007). *Arbeidsmigratiebeleid. Advies 07/02. (Labor migration policy. Advice 07/02)*. The Hague: Sociaal-Economische Raad (SER).

Solimano, A. (Ed.). (2008). *The International Mobility of Talent. Types, Causes, and Development Impact*. Oxford: Oxford University Press.
Stark, O., & Bloom, D. (1985). The new economics of labor migration. *American Economic Review, 75*(2), 173-178.
State, B., Rodriguez, M., Helbing, D., & Zagheni, E. (2014). Migration of Professionals to the U.S.: Evidence from LinkedIn data. Rerieved 4 March, 2015 from http://zagheni.net/uploads/3/1/7/9/3179747/migration_professionals_linkedin.pdf
Stebbins, R. A. (2001). *Exploratory Research in the Social Sciences. Exploratory Research in the Social Sciences. SAGE Publications, Inc*. Thousand Oaks, USA: SAGE Publications, Inc.
Sumption, M. (2011). Filling Labor Shortages through Immigration: An Overview of Shortage Lists and their Implications. Retrieved 2 March, 2011, from http://www.migrationinformation.org/Feature/print.cfm?ID=828
Suter, B., & Jandl, M. (2006). *Comparative Study on Policy Towards Foreign Graduates. Study on Admission and Retention Policies towards Foreign Students in Industrialised Countries* Vienna: International Center for Migration and Policy Development (ICMPD).
Swedish Institute. Innovation, Science/Research: Inventing tomorrow's world. Retrieved 9 Oct 2009, from http://www.sweden.se/upload/Sweden_se/english/factsheets/SI/SI_FS4_Innovation_Science_Research/Innovation_Science_Research_FS4_Hires.pdf
Swedish Migration Board (Migrationsverket). (2008). *Fact sheet on new labor migration*. Norrköping: Swedish Migration Board.
Swedish Ministry of Education and Research. (2008). A boost to research and innovation.. Factsheet October 2008, U08.017. Stockholm: Ministry of Education and Research.
Tarique, I., & Schuler, R. S. (2009). Global Talent Management. Literature Review, Integrative Framework and Suggestions for Further Reading. *Journal of World Business, 46*(2).
Teichler, U. (2012). International Student Mobility in Europe in the Context of the Bologna Process. *Journal of International Education and Leadership, 2*(1).
Teichler, U., & Janson, K. (2007). The professional value of temporary study in another European country: Employment and work of former ERASMUS students. *Journal of Studies in International Education, 11*(3-4), 486-495.
Teigland, R., & Lindqvist, G. (2007). Seeing Eye-to-eye: How do Public and Private Sector Views of a Biotech Cluster and its Cluster Initiative Differ? *European Planning Studies, 15*(6), 767-786.
The Netherlands Ministry of Justice. (2006). *Towards a Modern Migration Policy. Memorandum on the review of the policy on managed migration to the Netherlands*. The Hague: Ministry of Justic.
The Partnership for a New American Economy, & The Partnership for New York City. (2012). *Not coming to America: Why the US is falling behind in the global race for talent*.
Thorn, K., & Holm-Nielsen, L. B. (2008). International Mobility of Researchers and Scientists: Policy Options for Turning a Drain into A Gain. In A. Solimano (Ed.), *The International Mobility of Talent. Types, Causes, and Development Impact* (pp. 145-167). Oxford & New York: Oxford University Press.

Trippl, M. (2013). Islands of Innovation as Magnetic Centres of Star Scientists? Empirical Evidence on Spatial Concentration and Mobility Patterns. *Regional Studies, 47*(2), 229-244.

Trippl, M., & Maier, G. (2007). Knowledge spillover agents and regional development. SRE Discussion 2007/01 (pp. 28). Vienna, Austria: Institute of Regional Development and Environment.

UNESCO Institute for Statistics. (2012). *Fact Sheet: Women in Science, UIS Fact Sheet 23*. Retrieved from: www.uis.unesco.org

Vaiman, V., & Haslberger, A. (Eds.). (2013). *Talent Management of Self-Initiated Expatriates: A Neglected Source of Global Talent*. Houndmills:: Palgrave.

Vallas, S. P., & Kleinman, D. L. (2008). Contradiction, convergence and the knowledge economy: the confluence of academic and commercial biotechnology. *Socio-Economic Review, 6*(2), 283-311. doi: 10.1093/ser/mwl035

van Beuzekom, B. (2004). *Biotechnology Statistics in OECD Member Countries: An Inventory. OECD Science, Technology and Industry Working Paper 2004/8*: OECD Publishing.

Wallerstein, I. (1974). *The Modern World System*. New York: Academic Press.

Wessner, C. W., & Wolff, A. W. (Eds.). (2012). *Committee on Comparative National Innovation Policies: Best Practice for the 21st Century*. Washington DC: The National Acadamies Press.

White, M. (2009). Labour still running into trouble over immigration. *Guardian,* (14 March). www.guardian.co.uk/commentisfree/2009/mar/17/labour-immigration-mps.

Williams, A. M., & Baláž, V. (2005). What human capital, which migrants? Returned skilled migration to Slovakia from the UK. *International Migration Review, 39*(2), 439-468.

Wood, F. (Ed.). (2004). *Beyond Brain Drain: Mobility, Competitiveness & Scientific Excellence*. Report of a workshop held on 22-23 February 2004 at Centre for Higher Education Management and Policy, University of New England, Armidale, Australia: Federation of Australian Scientific and Technological Societies.

World Bank. (2007). *Labor Markets in EU8+2: From Shortage of Jobs to the Shortage of Skilled Workers*. Washington DC: World Bank.

World Economic Forum (WEF), & Mercer Consulting. (2012). *Talent Mobility Good Practices: Collaboration at the Core of Driving Economic Growth*. Geneva: World Economic Forum.

Wyckoff, A., & Schaaper, M. (2005). *The changing dynamics of the global market for the highly-skilled*. Paper presented at the Prepared for Advancing Knowledge and the Knowledge-Economy Conference, National Academy of Science, Washington DC, 10-11 January 2005

Youtie, J., Rogers, J., Heinze, T., Shapira, P., & Tang, L. (2013). Career-based influences on scientific recognition in the United States and Europe: Longitudinal evidence from curriculum vitae data. *Research Policy, 42*(8), 1341-1355. doi: http://dx.doi.org/10.1016/j.respol.2013.05.002

Zalatel, P. (2006). Competing for the highly skilled migrants: Implications for the EU common approach on temporary economic migration. *European Law Journal, 12*(5), 613-635.

Zimmermann, K. F. (2005). European labour mobility: Challenges and potentials. *De Economist, 153*(4), 425-450.

Zolberg, A. (1989). The next waves: Migration theory for a changing world *International Migration Review, 23*(3), 403-430.
Zucker, L., & Darby, M. (2006). Movement of Star Scientists and Engineers and High-Tech Firm Entry. NBER Working Paper No. 12172: National Bureau of Economic Research.
Zucker, L., & Darby, M. (2007). *Star Scientists, Innovation and Regional and National Immigration. NBER Working Paper 13547*. Cambridge, MA: NBER
Zucker, L., Darby, M., & Armstrong, J. (2002). Commercializing knowledge: University science, knowledge capture, and firm performance in biotechnology. *Management Science, 48*(1), 138-153.
Zucker, L. G., & Darby, M. R. (2001). Capturing Technological Opportunity Via Japan's Star Scientists: Evidence from Japanese Firms' Biotech Patents and Products. *The journal of Technology transfer, 26*(1-2), 37-58. doi: 10.1023/A:1007832127813