The global competition for talent: Life science and biotech careers, international mobility, and competitiveness

Kuvik, A.N.

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The Global Competition for Talent: Life Science and Biotech Careers, International Mobility, and Competitiveness

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad van doctor
aan de Universiteit van Amsterdam
op gezag van de Rector Magnificus
Prof. dr. D.C. van den Boom

ten overstaan van een door het College voor Promoties ingestelde
commissie, in het openbaar te verdedigen in de Agnietenkapel
op donderdag 28 mei 2015, te 12:00 uur

door

Aimee Nicole Kuvik

geboren te Stuttgart, Duitsland
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              Prof. dr. R.C. Kloosterman
              Dr. P. Raghuram

Faculteit der Maatschappij- en Gedragswetenschappen
ACKNOWLEDGEMENTS

Many people and institutes have helped shape this project and me as a researcher, and I am truly indebted to the time they spent, their knowledge, and the experiences together.

I first became aware of what a PhD entailed as a Sociology Bachelor’s student, and am indebted to one of my first Sociology instructors and academic advisor, Dr. Michael Katovich at Texas Christian University, for inviting me to present at an academic conference and broadening my mind to new ways of looking at the world and theories.

I am utterly grateful to Prof. Jan Rath. I have worked with him now for over a decade, as a research assistant, as my academic advisor, Master’s thesis supervisor, in Gaining from Migration research project, and now as the Promotor of my PhD. Jan has always been supportive of ideas, encouraging me to develop them further, and trusting me to find my own path. And, I was always amazed how easily Jan could advise me and get me on track when I got stuck, with advice that is both practical and visionary. Jan, you have been a great source of inspiration to me through these years.

Additionally, I would especially like to express my gratitude to the Young European Biotech Network (YEBN) and those who partnered with me to launch the Careers in Life Sciences (CiLS) scientist survey, as well as the Nature group who hosted a link to the survey online on Naturejobs. Special thanks goes to those who volunteered as part of the core team of our Careers in Life Sciences (CiLS) project – Emilia Daniłowicz-Luebert, who took on the role as CiLS project leader within YEBN, and also Tabea Dierker, Dominik Heinzmann, Alba Olivares Polo, and Olga Goncharova – for providing a truly perfect, international, interdisciplinary partnership.

I will never forget our first meeting in Bern, Switzerland, where I flew in without knowing what to expect, and left with a new fabulous team and the birth of the CiLS project. It was the kind of partnership that not only involved a mutually shared interest and great synergies in a project, but one that involved lots of smiles as well as focused meetings, whether on Skype, email exchange or in person. Thanks also to all those at YEBN who helped facilitating contacts to assist our survey data collection – and here special thanks goes to Debora Keller and Francesco Lescai – as well as the many others at YEBN who were involved. I am also grateful to YEBN as a whole for embracing the CiLS project, and for providing opportunities to present the research results to such an enthusiastic, inspiring group of life scientists. And not only just to present (and to be present), but to be seen as a valuable scientist and voting member of YEBN, despite not being a life scientist.

I am also forever thankful to all the individuals around the world, who took time to answer the CiLS survey, and those who participated in interviews. I thank you for your time, and hope that the contents of these pages express your career dreams and frustrations, in a way that can lead to better understanding.

The late Dr. Uwe Becker and the ‘Smallcons’ Amsterdam political science research team (aka the girls) – Franca van Hooren, Natascha van der Zwan, and Corina Hendriks – who I worked
alongside as a research assistant during my Master’s studies were also instrumental. Uwe’s
guidance on competitiveness and political economy funneled a curiosity for a topic I would have
otherwise never explored. He gave me crucial feedback, particularly for the proposal and earliest
drafts of chapters, supported my scholarship applications, and generally gave me a lot of advice
to move forward with pursuing a PhD. Uwe did not see immigration research as part of
competitiveness, though, and this skepticism also aided in my analysis.

Volunteering at The Hague Process on Refugees and Migration (THP) was both meaningful and
opened my eyes to seeing immigration issues on a truly global scale, and to hear first-hand from
many of the experts and leaders, whether academic, from NGOs, or those politically active in
this field. The work of THP is truly inspiring and I am thankful for all the people I was able to
work with at THP on issues of policy coherence for migration and development – Frans Bouwen,
Antoine Meyer, and Auke Witkamp.

I would also like to thank the various research institutes I was affiliated with and scholarships
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also provided many other types of support, ranging from a place to stay at the end of my lease, a
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University and particularly the assistance of Prof. Greta Druteikiene gave me a memorable,
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learn from) Lithuanian and Erasmus students. I am also thankful for the support provided by the
US embassy in Vilnius. I was also honored to be a researcher from June 2009-2010 at Institute
for Research on Migration, Ethnicity, and Society (REMESO) at Linköping University with
support from Prof. Carl-Ulrik Schierup, and thanks to a Swedish Institute scholarship. Finally, I
am grateful to the Institute for Migration and Ethnic Studies for providing a scholarship upon my
return to the Netherlands from June 2010-2011.

The year in Lithuania was one of the best experiences in my life. I am thankful for my neighbors
Rubenas and Gita, who I met with a bucket in their hands at my front door when they realized a
pipe had broken in the ceiling (over my laptop, nonetheless) while I was out. That meeting was
the start of much great time spent together – whether in the forest picking mushrooms or in the
laptop store negotiating repairs. Also, Virgis and Inga introduced me to Lithuanian culture
through their warm friendship with me and the other Fulbrighters, Cathy and Charlie. I will
always cherish the get-togethers the five of us had, and often wish I could go back and replay
that year.

Many others were involved in this research at diverse, critical stages. Thanks to Manon Tiessink
for volunteering her time at the University of Amsterdam as a research assistant, and the
enthusiastic support with coding of the surveys. I am also thankful for the co-editors of *Mobility in Transition*, Dr. Birgit Glorius and Dr. Izabela Grabowska-Lusinska, who not only gave me important feedback on my own work, but also helped broaden my knowledge of mobility and migration in Europe. I also appreciate all the time and evaluative feedback provided by the PhD committee members, Prof. Louise Ackers, Prof. Brian Burgoon, Prof. Jeroen de Kloet, Prof. Robert Kloosterman, and Dr. Parvati Raghuram.

To my dear friends who I met early on during my Master’s degree in Amsterdam – Brit Lynnebakke, Claire Meeussen, and Karin Schaake – you formed the cornerstone of both academic encouragement and also personally as life turned in unexpected ways from the start of my Amsterdam life chapter of life until now. I am thankful for all the understanding, the laughter, and adventures I have shared with each of you!

To my parents – I cannot think of a single time when you were not encouraging me, even when those dreams have led to me wandering around the world or, say, when you met my fiancé only a few days before our wedding. I am forever grateful for the freedom and love you give me. I am also thankful for the encouragement from my big brothers, Trent and Aaron. I would not be who I am today without you as my family.

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Branyo, you are the love of my life, my greatest support, the balance of my weaknesses, the one who can always make me laugh and smile. I once heard the general advice to wait until a PhD is finished before getting married, due to the PhD stress involved. Although I thought it made sense at the time, I am so thankful I did not follow this advice. With you, the seemingly difficult becomes much easier. It was you who took me from being proud of being independent to being interdependent. I love you completely and cannot imagine my life without you.

I would not have been able to make it to where I am now without faith, and am thankful for God for the challenges overcome and for uncountable blessings. Thanks to all those who said prayers for me when they knew I needed it.

Thinking back at the names listed of those that helped me during this project, individuals from more than 15 different countries, worked closely with me and influenced. Additionally, people from 69 countries took the time to share their thoughts and experiences through the CiLS survey. People may debate what global skilled, scientific, or student mobility will or should bring, but it is evident that changes are happening! My greatest wish is that at least one person will be inspired by this research and advance the research topic further than I ever could alone.
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acknowledgements</td>
<td>i</td>
</tr>
<tr>
<td>Table of Contents</td>
<td>iv</td>
</tr>
<tr>
<td>List of Tables, Figures, and Boxes</td>
<td>vii</td>
</tr>
<tr>
<td>Table of Abbreviations</td>
<td>ix</td>
</tr>
<tr>
<td><strong>Introduction – A global competition for talent in view of the knowledge economy</strong></td>
<td>1</td>
</tr>
<tr>
<td>The global competition for talent: Key concerns</td>
<td>1</td>
</tr>
<tr>
<td>Research questions</td>
<td>4</td>
</tr>
<tr>
<td>Relevance of research on the global competition for talent: Recent global changes</td>
<td>5</td>
</tr>
<tr>
<td>Contribution to the literature</td>
<td>7</td>
</tr>
<tr>
<td>Structure of the study</td>
<td>8</td>
</tr>
<tr>
<td><strong>PART I: WHAT STRUCTURES THE GLOBAL COMPETITION FOR TALENT?</strong></td>
<td>11</td>
</tr>
<tr>
<td>Chapter 1: The Changed Nature of Economic Competitiveness and Global Competition – The Increasing Roles of Knowledge and Mobility</td>
<td>12</td>
</tr>
<tr>
<td>Introduction</td>
<td>12</td>
</tr>
<tr>
<td>The difficulties in defining competitiveness</td>
<td>13</td>
</tr>
<tr>
<td>The merging of work on competitiveness and the workforce</td>
<td>16</td>
</tr>
<tr>
<td>Conclusion</td>
<td>19</td>
</tr>
<tr>
<td>Chapter 2: Skilled Migration and the Global Competition for Talent – Recent Developments and Theoretical Considerations</td>
<td>21</td>
</tr>
<tr>
<td>Skilled migration: Definitions, statistics, and typologies</td>
<td>22</td>
</tr>
<tr>
<td>Migration theory and approaches relevant to assessing skilled migration</td>
<td>34</td>
</tr>
<tr>
<td>Location choice</td>
<td>38</td>
</tr>
<tr>
<td>New paradigms in skilled migration: Skilled migration, globalization, and competitiveness</td>
<td>41</td>
</tr>
<tr>
<td>Conclusion</td>
<td>46</td>
</tr>
<tr>
<td>Chapter 3: Study Methodology and Analytical Framework – Assessing the Global Competition for Talent</td>
<td>48</td>
</tr>
<tr>
<td>Research objectives</td>
<td>48</td>
</tr>
<tr>
<td>Research challenges</td>
<td>48</td>
</tr>
<tr>
<td>Research questions and methods of data collection</td>
<td>49</td>
</tr>
</tbody>
</table>
Analytical framework for understanding the global competition for talent 61

Conclusion 68

Chapter 4: The Competition for Global Talent, EU-level Policies, and the Implications for Mobility Processes in European Labor Markets 69

Introduction 69

Key terminology 70

The geography of the European Union and EFTA 71

Reluctant convergence? The influence of policies from the European Union on mobility and migration 72

Stimulating European competitiveness through research and the knowledge economy 76

National policy approaches to skilled migration: Examples from within Europe 81

Policies for increasing human capital in the knowledge economy in the European Union 91

Conclusion 93

PART II: THE GLOBAL COMPETITION FOR TALENT IN PRACTICE – LIFE SCIENCE CAREERS, INTERNATIONAL MOBILITY, AND COMPETITIVENESS 95

Preface to Part II 96

A brief introduction to the biotechnology industry 98

Skills shortages in the life sciences and biotech sector 98

Characteristic features of scientific mobility as a form of skilled migration 100

Biotechnology and the global competition for talent 107

Chapter 5: The Changing Characteristics of Life Scientists and Their Careers 108

Increasing complexity of life science career options 109

Changing demographic profile of life science students and researchers 116

Interest in various life science career options in the CiLS study 123

Discussion and conclusions: New challenges for life science careers 130

Chapter 6: Scientific Mobility – Prevalence and Patterns 133

Data on scientific mobility on a global scale 135

International mobility in the CiLS survey 139

Conclusion 148

Chapter 7: Life Scientists’ Reasons for International Mobility and Location Choice 151
List of tables

TABLE 1 RESEARCH QUESTIONS .......................................................................................................................... 4
TABLE 3 TEMPORARY WORKERS ADMITTED UNDER SKILL-BASED CATEGORIES ........................................ 26
TABLE 4 TRENDS IN THE NUMBER OF FOREIGN STUDENTS ENROLLED OUTSIDE THEIR COUNTRY OF ORIGIN, BY REGION OF DESTINATION AND ORIGIN (2000 TO 2010, IN REVERSE ORDER) .... 32
TABLE 5 SHARE OF INTERNATIONAL/FOREIGN STUDENTS IN SELECT COUNTRIES, AS TOTAL %, INDEX OF GROWTH SINCE 2000, AND SHARE OF INDIAN AND CHINESE CITIZENS, 2008 ........ 33
TABLE 6 ECONOMIC EFFECTS OF SKILLED MIGRATION ............................................................................... 43
TABLE 7 RESEARCH QUESTIONS AND METHODS ........................................................................................... 52
TABLE 8 COUNTRY COMPARISON: POLICY PRIORITIES AND STRATEGIES FOR HIGH-SKILLED MIGRATION, 2009 ........................................................................................................................................... 82
TABLE 9 PROFILE OF EUROPEAN GRADUATE EDUCATION IN BIOLOGY—INTERNATIONALIZATION AND GENDER ................................................................................................................................................ 119
TABLE 10 NUMBER OF POSTDOCTORATES IN LIFE SCIENCES IN EU-25 AND US, ACCORDING TO NATIONALITY, 2003 .................................................................................................................................... 121
TABLE 11 HIGHEST ACADEMIC QUALIFICATION DESIRED - GENDER CROSSTABULATION AND BY COUNTRY OF CITIZENSHIP ........................................................................................................................................ 124
TABLE 12 NUMBER OF POSTDOCS ALREADY COMPLETED ........................................................................ 126
TABLE 13 EXPECTED TIME IN POSTDOC POSITION ......................................................................................... 126
TABLE 14 RESULTS OF THE GLOBSCI SURVEY ON EMPLOYMENT OF PUBLISHED SCIENTISTS .... 138
TABLE 15 PERCENTAGE WHO MOVED ABROAD IN THE PAST AND MEAN INTEREST IN MOVING INTERNATIONALLY FOR LIFE SCIENCE WORK IN THE FUTURE ........................................................................ 141
TABLE 16 RELATIVE IMPORTANCE OF INTERNATIONAL MOBILITY COMPARED TO OTHER SKILLS AND EXPERIENCES NEEDED IN THE LIFE SCIENCE JOB MARKET (Q85) ................................................................. 143
TABLE 17 EXPERIENCE WITH AND ATTITUDES TOWARD INTERNATIONAL MOBILITY IN THE LIFE SCIENCES, BY COUNTRY OF CITIZENSHIP (OR RESIDENCE) ............................................................................................................ 145
TABLE 18 MAIN REASON FOR MOST RECENT AND LAST FIVE MOVES .................................................... 147
TABLE 19 FACTORS FOR DECIDING WHERE TO MOVE IN THE FUTURE .................................................... 155
TABLE 20 INFLUENCE ON DECISIONS TO MOVE/NOT TO MOVE ................................................................ 157
TABLE 21 TOP 5 ‘FIRST CHOICE’ DESTINATIONS FOR LIFE SCIENTISTS: BY CITIZENSHIP ............... 159
TABLE 22 REASONS COUNTRY IS FIRST CHOICE ......................................................................................... 162
TABLE 23 VARIOUS REGIONAL INDICATORS FOR BIOTECHNOLOGY INDUSTRY STRENGTH .... 176
TABLE 24 GLOBAL RANKINGS, TOP 30 INSTITUTIONS PUBLISHING IN THE LIFE SCIENCES, BETWEEN 2004-2008* .................................................................................................................................. 177
TABLE 25 COMPETITIVENESS IN CILS SURVEY: STRONG CITIES OR REGIONS (Q117)/ COUNTRIES (Q118) IN THE LIFE SCIENCES AND BIOTECHNOLOGY INDUSTRY ........................................... 180
TABLE 26 COUNTRY OF CHOICE FOR FUTURE WORK BY CITIZENSHIP .................................................. 181
TABLE 27 INTEREST IN MOVING TO US, IN EUROPE, OR BOTH AMONG THOSE WILLING TO MOVE FOR WORK IN LIFE SCIENCES, BY CITIZENSHIP ........................................................................ 186
TABLE 28 WHICH STATEMENT BEST DESCRIBES THE EFFECT OF MOVING ABROAD ON A CAREER IN THE LIFE SCIENCES? ........................................................................................................... 193
List of figures

FIGURE 1 LONG-TERM GROWTH IN THE NUMBER OF STUDENTS ENROLLED OUTSIDE OF THEIR COUNTRY OF CITIZENSHIP ................................................................. 27
FIGURE 2 CAREERS IN LIFE SCIENCES (CILS) SAMPLE – CITIZENSHIP ............................................. 58
FIGURE 3 CAREERS IN LIFE SCIENCES (CILS) SAMPLE – COUNTRY OF RESIDENCE ......................... 59
FIGURE 4 FRAMEWORK FOR UNDERSTANDING “BRAIN COMPETITION POLICY” ................................. 68
FIGURE 5 MAP OF THE EUROPEAN UNION, 2013 .............................................................................. 72
FIGURE 6 EU BLUE CARD THRESHOLDS, REQUIRED SALARY AS A PERCENTAGE OF THE AVERAGE ANNUAL GROSS INCOME OF FULL-TIME EMPLOYED, 2010-12 ........................................................................ 80
FIGURE 7 POLICIES IN THE EU-27 TARGETING HUMAN RESOURCES FOR RESEARCH ................ 92
FIGURE 8 PERCENTAGE OF FEMALES AMONG LIFE SCIENCE GRADUATES (ISC 42), TERTIARY TYPE A AND ADVANCED RESEARCH PROGRAMS, 2000 AND 2008 .................................................. 117
FIGURE 9 IMPORTANCE OF POSTDOC FOR CAREER IN INDUSTRY .................................................... 127
FIGURE 10 INTEREST IN VARIOUS JOB POSTIONS IN THE LIFE SCIENCES IN THE NEXT 5 YEARS, MEAN SCORES ........................................................................................................... 128
FIGURE 11 INTEREST IN WORKING FOR VARIOUS EMPLOYERS IN NEXT 5 YEARS (OR WITHIN 5 YEARS OF FINISHING STUDIES), MEAN SCORES ...................................................................... 129
FIGURE 12 INTEREST IN COMPANIES, BY SIZE OF COMPANY AND EDUCATION LEVELS ................ 129
FIGURE 13 INTEREST IN WORKING ABROAD IN FUTURE, BASED ON PAST INTERNATIONAL MOBILITY ............................................................................................................................. 140
FIGURE 14 FRAMEWORK ON SKILLED MOBILITY DESTINATION CHOICE FROM PAPADEMETRIOU ET AL. (2009) .................................................................................................................. 153
FIGURE 15 MODIFIED FRAMEWORK FOR SCIENTIFIC FIELDS, BASED ON CILS RESEARCH .............. 164
FIGURE 16 BIOTECHNOLOGY R&D EXPENDITURES IN THE BUSINESS SECTOR (TOP) COMPARED TO PUBLIC AND UNIVERSITY R&D EXPENDITURES (BOTTOM), 2012 OR LATEST AVAILABLE YEAR ........................................................................................................ 175
FIGURE 17 PERCEPTIONS OF LIFE SCIENCE OPPORTUNITIES IN VARIOUS COUNTRIES ................... 183
FIGURE 18 MEAN INTEREST IN VARIOUS LENGTHS OF STAY AMONG INDIVIDUALS INTERESTED IN WORKING IN EITHER US AND/OR EUROPE, SCALE 1 (NOT INTERESTED AT ALL) TO 5 (EXTREMELY INTERESTED), ACADEMIC VERSUS INDUSTRY, BY COUNTRY OF CITIZENSHIP* .......................................................... 187

List of boxes

BOX 1 PATTERNS OF INTERNATIONAL EDUCATION ACCORDING TO UNESCO STATISTICS .......... 29
BOX 2 CRITERIA FOR MULTINATIONAL COMPANIES TO CHOOSE A LOCATION FOR OPERATIONS . 39
BOX 3 COMPETITIONS TO BUILD COMPETITIVE BIOTECH REGIONS IN GERMANY ......................... 181
BOX 4 RESEARCH CAREER PARTICULARITIES IN THE UNITED STATES ............................................. 191
BOX 5 BRAIN DRAIN, RETURN MIGRATION AND INNOVATION TRANSITIONS IN LITHUANIA ... 199
### TABLE OF ABBREVIATIONS

Abbreviations related to this research study:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CiLS</td>
<td>Careers in Life Sciences survey and study</td>
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<tr>
<td>YEBN</td>
<td>Young European Biotech Network</td>
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</tbody>
</table>

Geographic abbreviations:

<table>
<thead>
<tr>
<th>Abbreviation</th>
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<tr>
<td>BRIC</td>
<td>Brazil, Russia, India, and China</td>
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<tr>
<td>CEE</td>
<td>Central and Eastern European</td>
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<tr>
<td>EEA</td>
<td>European Economic Area</td>
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<tr>
<td>EFTA</td>
<td>European Free Trade Agreement</td>
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<tr>
<td>EU</td>
<td>European Union</td>
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<tr>
<td>OECD</td>
<td>Organisation for Economic Co-operation and Development</td>
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Abbreviations related to policy:

<table>
<thead>
<tr>
<th>Abbreviation</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ERA</td>
<td>European Research Area</td>
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<tr>
<td>GATS</td>
<td>General Agreement on Trade in Services</td>
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<tr>
<td>HRST</td>
<td>Human resources in science and technology</td>
</tr>
<tr>
<td>IT</td>
<td>Information technology</td>
</tr>
<tr>
<td>MINT</td>
<td>Mathematics, information sciences, natural sciences, and technology</td>
</tr>
<tr>
<td>R&amp;D</td>
<td>Research and development</td>
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<tr>
<td>S&amp;E</td>
<td>Science and engineering</td>
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<tr>
<td>SET</td>
<td>Science, engineering and technology</td>
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<tr>
<td>STEM</td>
<td>Science, technology, engineering and mathematics</td>
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</tbody>
</table>