Systematic Review – PRISMA Flow Chart and description of included studies

(1) PRISMA Flow Chart

- **Identification**
  - Records identified through database searching (n = 1380)

- **Screening**
  - Records after duplicates removed (n = 1257)
  - Records screened (n = 1257)
  - Records excluded (n = 1145)
    - Full-text articles excluded (n = 93)
    - Full-text not available (n = 6)

- **Eligibility**
  - Full-text articles assessed for eligibility (n = 112)

- **Included**
  - Studies included in qualitative synthesis (n = 13)
(2) Description of studies included in the systematic review

| Authors          | Year | Title                                                                                           | Objective is to study...                                                                                           | Methods, (CASP score)                                         | Study population                                                                 | Location   |
|------------------|------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------|------------|
| Ard              | 2003 | The commercialization of clinical genetic technologies: A technology assessment using fluorescence in situ hybridization as the genetic lens (dissertation) | ...the roles of academia, government, and the U.S. biotechnology industry, in the research, development, and diffusion of genetics research | Case study, semi-structured interviews, (9)                     | 1 academic scientist, 2 genetics professors, 1 clinical genetics professional, 2 directors of a clinical genetics center, 1 senior level university administrator, 2 senior biotech executives | USA        |
| Bacevice         | 2010 | Small World, Big Ideas, and Smart Companies - A Qualitative Study of Academic Spin-off Companies and Knowledge Creation (dissertation) | ...how spin-offs create knowledge, the ways in which knowledge flows both within and outside of the company              | Case study, semi-structured inter-views, 2008-2009 (9)          | 18 individuals affiliated with 6 academic spin-offs in the life sciences or medicine | Australia  |
| Filieri et al    | 2014 | Structural social capital evolution and knowledge transfer: Evidence from an Irish pharmaceutical network | ...how the structure of industry-university networks evolves and influences knowledge transfer                           | Single-site case study, interviews (8)                         | 7 academics and 11 industry managers directly involved in the activities of the network | Ireland    |
| Owen-Smith & Powell | 2004 | Careers and contradictions: Faculty responses to the transformation of knowledge and its uses in the life sciences | ...how faculty who are differently positioned with regard to research commercialization are developing varied interpretations of what careers and research programs look like | >70 semi-structured and 15 informal interviews, fieldwork (8)  | Prestigious and prolific academic scientists and research administrators in the life sciences | USA        |
| Styhre           | 2014 | Coping with the financiers: attracting venture capital investors and end-users in the biomaterials industry | ...the challenges in establishing university spin-outs                                                                 | Case study, interviews (8)                                    | 4 male and 4 female researchers and administrative staff at two university spin-outs involved in orthopedic device development | Sweden     |
| Rowe et al       | 2013 | Principles for building public-private partnerships to benefit food safety, nutrition, and health research | ...principles for effective public-private partnerships (PPPs) in scientific research                                | Semi-structured interviews (7)                                | Senior individuals from 27 organisations currently engaged in public-private partnerships, including academic scientists | Global     |
| Author(s)                  | Year | Title                                                                 | Summary                                                                 | Methodology                                                                                      | Participants                                                                                     | Location          |
|---------------------------|------|----------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------|
| Schah, Singer & Daar      | 2010 | Science-based health innovation in Tanzania: bednets and a base for invention | ...Tanzania’s science-based health innovation system                    | Case study, semi-structured interviews, 2007 (7)                                                | 16 government officials, 22 researchers, 6 entrepreneurs, 2 NGO representatives                 | Tanzania          |
| Wadmann                   | 2014 | Physician-industry collaboration: conflicts of interest and the imputation of motive | ...how policies regarding innovation and conflict of interest interact with everyday practice in clinical hypertension research in Denmark | Ethnographic fieldwork, 22 semi-structured interviews (7)                                       | 10 physician investigators, 8 research nurses, 3 pharmaceutical company executives, 1 chief economist from the Danish Pharmaceutical Industry association | Denmark           |
| Dooley, Kirk & Philpott   | 2015 | Nurturing life-science knowledge discovery: managing multi-organisation networks | ... how knowledge networks linking public research centres and pharmaceutical organisations can be managed to deliver benefits | Case study, semi-structured inter-views, 2004-2008 (6)                                         | 19 academics, 5 industry members of a management team of a structured, long-term collaboration in medical research | Not specified     |
| Colaianni & Cook-Degan    | 2009 | Columbia University’s Axel Patents: Technology Transfer and Implications for the Bayh-Dole Act | ...the effect of the Bayh-Dole Act on incentives for federal grantees to pursue royalty revenues from patented research | Interviews, 2005 (5)                                                                           | 2 inventors named on Columbia’s Axel patents                                                 | New York City, USA |
| Lander & Atkinson-Grosjean| 2011 | Translational science and the hidden research system in universities and academic hospitals: A case study | ...the ‘hidden research system’ that connects hospitals and universities with the clinical and scientific actors who make the linkages possible and individual interactions and dynamics involved in immune system research | Case study, structured & semi-structured interviews, participant-observer, 2007-2009 (5)    | 16 clinician-scientists and their teams and 4 collaborating university scientists in a network working on IRAK-4 deficiency research | Not specified     |
| Roback, Hass & Persson    | 2001 | Transfer of health care technology in university-industry research collaboration environment | ...the research process in the field of biomedical engineering and to identify determinants of technology transfer | Semi-structured interviews (5)                                                                  | Senior researchers at 11 projects between academia and industry in health research at the Competence Center NIMED at Linköping university, Sweden | Linköping, Sweden |
| Villasana                 | 2011 | Fostering university-industry interactions under a triple helix model: the case of Nuevo Leon, Mexico | ...how academic researchers develop interactions with industry           | Semi-structured interviews (5)                                                                  | 16 faculty performing research in biotechnology at two universities (UANL and ITESM) in Nuevo Leon | Nuevo Leon, Mexico |