

Nael Thaher, Ph.D.

CONTACT INFORMATION

6-186 Fife Road,
Guelph Ontario N1H 8L3 Canada
&
Housing 68, Behind Universal Schools,
Airport Road, Amman, Jordan

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EDUCATION

University of Guelph, Canada

Ph.D. Rural Studies PhD Program 10/2017
School of Environmental Design and Rural Development (SEDRD)

Dissertation Title: “Leveraging Intellectual Property Management for Crop Biotechnology Innovation” URI: <http://hdl.handle.net/10214/11382>

Dissertation Committee: Helen Hambly Odame, Victoria Henson-Apollonio, John FitzGibbon, and Elsie Quait-Randall, Sean Kelly
Average GPA = 85.77 % (A)

University of Guelph, Canada

M.Sc. Plant Agriculture 06/2011
Department of Plant Agriculture

Thesis Title: “Fungicide insensitivity in *Ascochyta rabiei* in Saskatchewan”
URI: <http://hdl.handle.net/10214/7684>

Dissertation Committee: Bruce Gossen, Mary Ruth McDonald, Peter Pauls, Katerina Jordan, Tom Hsiang

University of Jordan, Jordan

Bachelor of Science (BSc.), Faculty of Agriculture 06/1995

RESEARCH FIELD & TEACHING

Agri-food business, rural development, sustainable rural systems, agricultural technology transfer & commercialization, agri loans and access to credit by small scale farmers, food security, agri-food systems transformation, farm management, management of intellectual property rights (patents, plant breeders' rights) in agribusiness, agricultural policy, science & innovation policy, agri-food traceability, research methodology (quantitative and qualitative), statistics analysis (SAS software) and data analysis software NVivo 11, gender studies analysis.

**ACADEMIC,
RESEARCH,
& INDUSTRIAL
EXPERIENCE**

The University of Jordan, Amman, Jordan School of Agriculture, Department of Agricultural Economics and Agribusiness Management	2023-Present
National Agricultural Research Center, Jordan Research Associate, Government Officials	2019-2022
Granted a Funding (JD 15,640 for one year) for Research Project (FS-Agr/3/2021) entitles “Analysis of the impact of government backed debt on small scale farmers in Jordan” by the Scientific Research and Innovation Support Fund, Jordan	2022
RQ+ International Development Research Centre (IDRC) College of Reviewers (Canada) Research Affiliate with Panel Reviewer of Research Quality, Agriculture & Food Security Projects	2020
Zarqa University, Zarqa, Jordan Assistant Professor, Deanship of Scientific Research & Faculty of Science	2018-2019
University of Guelph, Ontario, Canada Postdoctoral Fellow, University of Guelph	2017-2018
Graduate Researcher, SEDRD	2011-2017
Teaching Assistant (International Communication, Research Design, Integrating Science and Business, Rural Extension in Change and Development)	
Capacity development assessment for agricultural-related IP management in Canada & USA using the modified Delphi method Research Trip to Brazil and Collaborative Research with EMBRAPA-HQ, Brasilia, Monsanto, Sao Paulo, and EMBRAPA-Soybean, Londrina where I used the the case study of biotech soybean to examine the issues of patent expiration	
Leading a project in examining relevant legislation, policies, & strategies for IP management in agricultural innovation “Open access & copyright issues related to Ontario Ministry of Agriculture and Food-U of G partnership knowledge translation & transfer (KTT)”	

Graduate Researcher in a gender studies project: worked closely with a project leader and students to design and implement research and exploratory study of gender analysis in sheep and goat dairy value chains in Jordan and Ontario (including field work i.e. semi-structured interviews, focus group discussions and informant interviews).

Technology Transfer Fellow,
Research Innovation Office May-Sept 2012

Research Associate, Elora Research Station Feb-Aug 2011

Agriculture and Agri-Food Canada, Guelph & Saskatoon, Canada
Research Affiliate, AAFC 2008-2011

Dependable Home Tech, Mississauga, Canada
Assistant Team Manager 2004-2008

Bayer Crop Science, Jordan
Sales & Marketing Lead 1997-2004

Veterinary & Agricultural Products Co., Jordan
Regulatory Affairs Lead 1995-1997

RECOGNITIONS & AWARDS Social Sciences and Humanities Research Council (SSHRC) – Insight Development Grant 2014-2016
Craig Pearson International Research Scholarship 2014
Robb Graduate Travel Grant Award 2014
Richard and Sophia Hungerford Graduate Travel Scholarship 2014

Ontario Ministry of Agriculture and Food (OMAF) – University of Guelph Highly Qualified Personnel (HQP) Graduate Scholarship-Doctoral 2011-2014

Dean’s Scholarship, University of Guelph 2009-2014

Board of Graduate Studies Research Scholarship 2011-2012

Registrar’s Research Grant and Award 2009, 2014 & 2015

Canadian Phytopathological Society Travel Award 2010

& Honorable Mention for best graduate student oral presentation in Vancouver

PUBLICATIONS Refereed Articles

Shibli R., **Thaher N.**, Malkawi M., Swelam A., and Ramasamy S. (2023). Operationalized multi-stakeholders research, technology and innovation platform to enhance date palm integrated production system in NENA region. *Acta Hort.* 1371, No. 40, pp. 287-294.

Nathir, M. Obeidat, Rida A. Shibli, Mohammed A. Khasawneh, & **Nael H. Thaher** (2023). Distance education: is it any longer a paradigm of choice? The University of Jordan; a case study. In: Badran A., Baydoun E, Mesmar J. (eds.) *Higher Education in the Arab World: E-Learning and Distance Education*. Pages 79-98. *Springer International Publishing AG, Part of Springer Nature, Switzerland AG, Cham*.

Nael H. Thaher, Helen Hambly Odame & Victoria Henson-Apollonio (2021). A case study of management of IPRs in soybean biotechnology: evidence from Brazil and a successful coexistence in Canada and USA. *The Drake Journal of Agricultural Law*, Vol. 26, No. 2, pp. 203-251. *Corresponding Author*.

Nael H. Thaher, Rida A. Shibli, Mohammed A. Khasawneh, Wejdan S. Abu Elhaija & Ahed M. Wahadni (2022). Leveraging research and innovation for the post COVID-19 era: Lessons learned and future plans towards economic resilience. In: Badran A., Baydoun E, Mesmar J. (eds.) *Higher Education in the Arab World: New priorities in the post COVID-19 era*. Pages 151-172. *Springer International Publishing AG, Part of Springer Nature, Switzerland AG, Cham*.

Mohammed A. Khasawneh, **Nael H. Thaher**, Rida A. Shibli, Wejdan S. Abu Elhaija & Ahed M. Alwahadni (2022). Bolstering economic growth in the Arab region through commercialization of research outcomes. In: Badran A., Baydoun E, Mesmar J. (eds.) *Higher Education in the Arab World: Research and Development*. Pages 141-163. *Springer International Publishing AG, Part of Springer Nature, Switzerland AG, Cham*.

Rida A. Shibli, Mohammed A. Khasawneh & **Nael H. Thaher** (2020). Innovation as a principle in university governance: a holistic approach for Arab universities. In: Badran A., Baydoun E, Hillman JR (eds.) *Higher Education in the Arab World: Government and Governance*. Pages 117-139. *Springer International Publishing AG, Part of Springer Nature, Switzerland AG, Cham*.

Adel Abdel-Ghani, Khalid Al-Abbsi, **Nael Thaher**, Saddam Al-Dalain, Ghaid Al-Rabadi, Farah Al-Nair (2020). Phenotypic response of barley landrace and its wild progenitor *Hordeum spontaneum* from Jordan to salt stress. *Australian Journal of Crop Science*, Vol. 14, No. 7, pp. 1109-1120. *Corresponding Author*.

Adel H. Abdel-Ghani, Saddam A. Al-Dalain, **Nael H. Thaher**, Saed J. Owais, Shahed I. Sarayrh, Raeda Mayta, Mahmud A. Duwayri (2020). The response of durum wheat varieties from semi-arid environment to drought stress on germination and at the seedling stage. *Bulgarian Journal of Agricultural Science*, Vol. 26, No. 2, pp. 299-308. *Corresponding Author*.

Nael Thaher, Helen Hambly Odame & Victoria Henson-Apollonio (2019). Capacity development for intellectual property management in Canadian crop biotechnology. *Int. J. of Intellectual Property Management*, Vol. 9, Nos 3/4, pp. 287-314. *Corresponding Author*.

Thaher, Nael & Hambly Odame, Helen (2017). Intellectual property and technology transfer. *House of Commons Canada, Standing Committee on Industry, Science and Technology*. Published in September 6, 2017. www.ourcommons.ca/Committees/en/INDU/StudyActivity?studyActivityId=9213469.

Chantal Phillips, Helen, Hambly Odame & **Nael Thaher** (2012). Spreading more than just manure: idea generation between scientists and agricultural producers. *Living Knowledge International Journal of Community Based Research*, No. 10, pp. 21-23, ISSN 1613-2270.

Thaher, N.H., Gossen, B.D., & McDonald, M.R. (2011). Comparison of methods to assess the sensitivity of *Ascochyta rabiei* to strobilurin fungicides. *Can. J. Plant Pathol.*: 33: 293-294.

Gossen, B.D., Hwang, S.F., **Thaher, N.H.**, & McDonald, M.R. (2009). Insensitivity of *Ascochyta rabiei* to strobilurin fungicide in Canada, 2007. *Can. J. Plant Pathol.*: 31: 486.

Selected Proceedings

Thaher, N.H. (2021). Policy and legal landscape along with issues pertaining to traditional knowledge of plant genetic resources. *Islamic World Academy of Sciences (IAS)*, Vol. 29, No. 45, May-August, 2021.

Phillips, C., Hambly Odame, H., & **Thaher, N.** (2012). Spreading more than just manure: idea generation between scientists and agricultural producers. *Living Knowledge Conference*, Bonn, Germany.

Thaher, N.H., Gossen, B.D., & McDonald, M.R. (2010). Baseline sensitivity of *Ascochyta rabiei* to penthiopyrad, a new SDHI fungicide. *Phytopathology*, 100: S125. (also in Proc. 31st Annual Meeting of the Plant Pathol. Soc. Alberta, Lethbridge, AB, Canada, October 12-14, 2010, pp. 25).

Thaher, N.H., Gossen, B.D., & McDonald, M.R. (2010). Sensitivity of *Ascochyta rabiei* to strobilurins and other foliar fungicides in Western Canada. Pg. 5 in *Proc.Can. Pulse Research Workshop*, Calgary, AB, Nov. 3–5, 2010.

Thaher, N.H., Gossen, B.D., & McDonald, M.R. (2010). Developing a method to assess insensitivity to pyraclostrobin fungicide in *Ascochyta rabiei*. 30th Annual Meeting of the Plant Pathol. Soc. Alberta, Canmore, AB, Canada, October 26–28, 2009, pp. 13-14.

Reports

Hambly Odame, H., Phillips, C., & **Thaher, N.** 2013 – 2014. Final report 2014 open access and copyright issues related to KTT for the OMAFRA – U of G Partnership.

Thaher, N., Gossen, B.D., & McDonald, M.R. (2009). Sensitivity of field isolates of *Ascochyta rabiei* to strobilurin fungicides in 2007 & 2008. *Muck Vegetable Cultivar Trial & Research Report*, pp. 109-113. URI: <http://hdl.handle.net/10214/3782>.

PRESENTATIONS & INVITED TALKS Presented a training program “**Improve AR4D & enhance institutional linkages between NARS actors in Jordan.**” Crown Plaza Jordan Dead Sea, January 12-13, 2023 - FAO

Presented “**Agri-Food Traceability & Trust-Jordan Case Study.**” Mutah University workshop on Food Loss and Waste, AlKarak, Jordan, July 28, 2021.

Presented “**Entrepreneurship and Innovation for Economic Development**” in the “Open Day for the ENI CBC MED Projects (MYSEA & U-SOLVE).” Movenpick Hotel, Amman, Jordan, July 5, 2021.

Presenting **A Training Webinar** on “Characterizing and assessing research quality for scaling the impact for innovation and development” in collaboration with the Islamic World Academy of Sciences (IAS) & the Association of Agricultural Research Institutions in the Near East and North Africa (AARINENA), Amman, Jordan, January 23, 2021.

Guest Lecturer on ‘Business entrepreneurship and agricultural innovation for economic development’ for the “**Jordanian Action for the**

Development of Enterprises JADE”, Hosted by Jordan University of Science and Technology and co-funded by the EU, Amman, Jordan, December 20 & 22, 2020.

“Intellectual property rights for innovation in industrial and agricultural research sectors in support of economic development.”
Organizer and Main Speaker of this workshop in collaboration with **UN-Economic and Social Commission for Western Asia (ESCWA)**, Association of Agricultural Research Institutions in the Near East and North Africa (AARINENA) and iPark of the Royal Scientific Society. Kempinski, Amman, Jordan, December 14-15, 2019.

“Intellectual Property Management for Agricultural Innovation.” **The Eighth Scientific Agricultural Conference – in the Plenary Session**, Mutah University, AlKarak, Jordan, October 15-17, 2018.

“Promoting Innovation and Competition in Biotechnology.” **INVENT Final Conference**, Co-Funded by the Erasmus+ Programme of the European Union, Dead Sea, Jordan, September 25, 2018.

“Leveraging Intellectual Property Management for Crop Biotechnology Innovation.” Workshop, the **National Agricultural Research Centre (NARC)**, Albaqaa, Jordan, September 3, 2018.

Oral & Poster presentation “Intellectual Property Management for Agri Food Innovation” at the National Association of Plant Breeders (NAPB) Meeting, Tampa, Florida, USA, June 2-5, 2013.

Poster “Open Access & Copyright issues Related to the KTT” presented at the Knowledge Exchange Day: The KTT Toolbox, Guelph, ON, Canada, April 5th, 2013.

Poster presented at the Knowledge Exchange Day: KTT in Action, Office of Research & OMAF, Guelph, ON, Canada, February 1st, 2012.

Oral presentation at the Ontario Pest Management Conference in Guelph, ON in November 2010.

Oral presentation at the Canadian Phytopathological Society, Annual Meeting with the Pacific Division of the American Phytopathological Society, University of British Columbia, Vancouver, BC, Canada, June 2010, O-5.

Poster presented at the Saskatchewan section of Canadian Phytopathological Society in Saskatoon, SK in December 2009.

Poster presented at the Ontario Pest Management Conference in Guelph, ON in November 2009.

Poster presented at the South-western Ontario section of Canadian Phytopathological Society in London, ON in November 2009.

Poster presented at the annual meeting of the Canadian Phytopathological Society in Winnipeg, MB in June 2009.

**WORKSHOPS,
CONFERENCES
& CERTIFICATES**

The Intel International Science and Engineering Fair (**Intel ISEF**), the Arab edition in collaboration with the Ministry of Education (Abdul Hameed Shoman Foundation 2019, Crown Prince Foundation 2020-Present) served on **the Judgment Committee of Agriculture & Environment**.

7th International Date Palm Conference, March 14-16, 2022, Abu Dhabi, UAE. **Participant and launching the Date Palm Innovation Platform for the NENA Region at the Opening Ceremnoy.**

National Center for Research and Development (HCST), **External Evaluator for Startups & SMEs Funding Program 2021.**

Smart Farming Technology Webinar by TAGEM-Turkey, Certificate of Appreciation, Septemebr 30, 2021.

A member of the New and Emerging Researchers Group (NERG) – open AIR African Innovation Research, Centre for Law, Technology, and Society, Faculty of Law, University of Ottawa since 2020.

Active Member of the Agriculture & Environment Committee at the Jordanian Society for Scientific Research, Entrepreneurship and Creativity (**JSSREC**) since 2019.

Editorial Board Member of the Conference Proceedings of the 2nd International Conference on Agriculture, Food Security and Safety 2021 and **Board Member of the International Scientific Committee** for the International Conference on Agriculture, Food Security & Safety. Colombo, Sri Lanka, November, 2019, 2020 & 2021. **Certificate of Excellence in Reviewing.**

The 7th UN-ESCWA Technology Centre's **Technical Committee Meeting and Expert Group Meeting** on "Green Technology Transfer, Adaptation and Investment Required for Implementing SDG12", Amman, Jordan, July, 2019.

Land & Water Days Conference 2019, Cairo, Egypt, March 30-April 4, 2019 organized by the FAO & UN-ESCWA.

WIPO Sub-Regional Workshop on the Patent Cooperation Treaty (**PCT**) for Selected Arab Countries: The System for Worldwide Filling of Patent Applications. Amman, Jordan, November, 2018.

Ontario Federation of Agriculture (**OFA**): Canada and the Ag Data Transparency Evaluator, Guelph, Ontario, served as a **member of the Steering Committee**, May, 2017.

Centre for International Governance and Innovation (**CIGI**): Conference on IPRs & Innovation in the Fourth Industrial Revolution, “Strengthening Canada’s Innovation Performance in the Global Economy,” Toronto, Canada, 2016.

Centre for International Governance and Innovation (**CIGI**): IP, Trademark and Copyright Workshop, Waterloo, Canada, 2015.

American Seed Trade Association (**ASTA**): CSS 2015 and Seed Expo, Chicago, IL, USA, 2015.

The International Association for the Protection of Intellectual Property (**AIPPI**) Meeting: 2015 Rio de Janeiro, Brazil, AIPPI World Congress, 2015.

The World Intellectual Property Organization (**WIPO**) Academy (Geneva, Switzerland):

1. **The WIPO-University of Geneva Summer Academy** on Intellectual Property, Certificate of Completion, 2014.
 2. **General Course on IP**, DL-101, Certificate of Completion, 2014.
 3. **Introduction to the UPOV System** of Plant Variety Protection under the UPOV Convention, DL-205, Certificate of Completion, 2013.
- Research Commercialization Introductory Course (**NCET2**), 100 C: 13-6, Washington, DC, Certificate of Completion, 2014.

International Biotechnology Symposium (**IBS**): “Opening Opportunities for Progress”, the American Soybean Association, Champaign, Illinois, USA, 2013.

Canadian Science Policy Conference (**CSPC**): Toronto, Canada, 2013 & Calgary, Canada, 2012.

International **Open Access** Week: Guelph, Canada, 2013 & 2012. Served as a **member of conference organizing committee** in 2012.

Participant of the **Graduate Student Teaching Development Program (TDP)**, University of Guelph, 2013 & 2012.
The Guelph IP Academy, IP Learning Series-Dialogue and Discussions-Catalyst Centre, 2013 & 2012.

Ontario Fruit and Vegetable Convention (**OFVC**), Workshop and Booth, Niagara Falls, Canada, 2012.

Practice Your Presentation Skills I, MITACS Skills Training & Entrepreneurship Program, Toronto, 2010.

OECD Principles of Good Laboratory Practice, School of Environmental Sciences, University of Guelph, 2009.

Leadership Development Workshop “GridWorks” (Part of Advanced Agricultural Leadership Program).

Recognition Certificate for participating in the Scientific Research Competition, University of Jordan.

INTERNATIONAL TRAINING & COURSES

International Center for Land Policy Studies and Training (ICLPST), Taiwan in collaboration with Lincoln Institute of Land Policy:
 “The 156th Regular Session on Agricultural Development and Policy-Net Zero Sustainable Development” September 1 – September 22, 2023. Taoyuan, Taiwan. Certificate of Completion.

Princess Sumaya University for Technology and Rochester Institute of Technology: Workshop on Training of Trainers – Recruitment, Selection and Training of Circular Entrepreneurs. January 7-8, 2024, St. Regis, Amman.

A Fellowship under the OKP Scholarship Program funded by the Dutch Ministry of Foreign Affairs for **Executive Program on “Sustainable Business Development” at Maastricht School of Management, Netherlands**, January 21-February 3, 2023.

A Fellowship under the OKP Scholarship Program funded by the Dutch Ministry of Foreign Affairs for **Executive Program on “Small Agribusiness Development & Building Triple Helix Partnerships” at Maastricht School of Management, Netherlands**, March 26-April 9, 2022.

International Center for Land Policy Studies and Training (ICLPST), Taiwan in collaboration with Lincoln Institute of Land Policy:
 “The 148th Regular Session on Agricultural Development and Policy” September 17 – December 10, 2021. Certificate of Completion.

African-Asian Rural Development Organization (AARDO), Rural Development Academy, Bangladesh:
 “Green Innovation in Agriculture and Rural Development” September 21-30, 2021. Certificate of Completion.

The World Intellectual Property Organization (WIPO) Academy (Geneva, Switzerland):

* Roving Webinar on WIPO Services and Initiatives, Two Days: May 27 and May 28, 2021 (WIPO and Government of Canada).

1. Advanced Course on Intellectual Property Management, DL450, Certificate of Completion, 2021
2. Advanced Course on Patent Search Information, DL318, Certificate of Completion, 2020
3. Intellectual Property Panorama, DLIPPanoramaE19, Certificate of Completion, 2019
4. Introduction to the Patent Cooperation Treaty, DL101PCT, Certificate of Completion, 2018
5. Primer on Intellectual Property, DL-001, Certificate of Completion, 2018
6. Advanced Course on Software Licensing including Open Source, DL-511, Certificate of Completion, 2018
7. The WIPO-University of Geneva Summer School on Intellectual Property, Certificate of Completion, 2014
8. General Course on IP, DL-101, Certificate of Completion, 2014
9. Introduction to the UPOV System of Plant Variety Protection under the UPOV Convention, DL-205, Certificate of Completion, 2013

Research Commercialization Introductory Course (NCET2), 100 C: 13-6, Washington, DC, Certificate of Completion, 2014

Intellectual Property for Innovation (ip4inno) Training, Virtual Classroom Lessons (VCLs), by the European Commission's Directorate-General, 2012.

REFERENCES

Helen Hambly Odame

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School of Environmental Design and Rural Development (SEDRD)
University of Guelph
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Phone: (519) 824-4120 Ext. 53408

Victoria Henson-Apollonio

A special Graduate Faculty, University of Guelph,
A retired Faculty of Purdue University, A former senior scientist and
manager of CAS-IP (CGIAR),
U.S. Patent Agent and IP Consultant, Oregon, USA
Email: vhensonapollonio@gmail.com

John FitzGibbon

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School of Environmental Design and Rural Development (SEDRD)
University of Guelph
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Rida Shibli Alkhalde

Senator and Professor

Hamdi Mango Research Centre, University of Jordan, Amman,
Jordan

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Bruce D. Gossen

Research Scientist

Agriculture and AgriFood Canada

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