
WORK EXPERIENCE

Current positions	Adjunct Professor Cornell University, Ithaca, NY (since 1995) Research Professor, Arizona State University, Tempe, AZ and Adjunct Professor, Sandra Day O'Connor College of Law at ASU (since 2004) Chair, <i>bio</i> Developments-International Institute (since inception, 2001) President, <i>bio</i> Developments LLC (International Consultants)
1995-2000	Executive Director, ISAAA and Visiting Fellow, Cornell University. www.isaaa.org Executive to the Humanitarian Board for Golden Rice (2002-2004) Adjunct Professor, International Academy of the Environment (IAE; to 1998).
1993-1995	Associate Director, Biodiversity/Biotechnology Program, IAE, Switzerland
1991-1994	Various consultancies, including executive consultant to ISAAA (Mexico) funded by the Rockefeller Foundation, NY; and Visiting Fellow, Cornell University (USA).
1988-1991	Associate Scientist, Biotechnology Sciences, International Wheat and Maize Improvement Center (CIMMYT, Mexico). www.cgiar.org
1985-1988	Consultant to Nickerson Seed Co. UK, Germany and France (part-time).
1975-1980	Farming in Switzerland and France.

EDUCATION AND QUALIFICATIONS

PhD	“Genetics and Biochemistry” at Cambridge University, UK (1988; Plant Breeding Institute) (<i>Overseas Research Student Award, 1986 and 1987</i>).
MPhil	“Plant Breeding and Genetics” at Cambridge University, UK (1985) (<i>Middleton Prize 1985 & Overseas Research Student Award, 1985</i>).
BSc	“Agronomy” at the Swiss Agricultural College, Bern (1983), <i>First</i> .
Diplomas	“Farm Management”, Swiss Federal Certificate of Capacity (Agricultural School, Cernier, Switzerland, 1980). <i>First</i> . “Agriculture”, Swiss Federal Diploma in Agriculture (Agricultural School, Cernier, Switzerland, 1980). <i>Hobel Prize</i> . “Farming”, Swiss Federal Diploma in Farming (Agricultural School, Arenenberg, Switzerland, 1978).

KEY AREAS OF EXPERTISE

- Intellectual property (IP) management in the life sciences (emphasis on agriculture and health), including licensing and brokering, humanitarian and commercial licensing, emphasis on public sector institutions
- Building and managing public-private partnerships
- Agricultural and health biotechnology, international development, biosafety, genetic resources and bioprospecting issues, institution building, strategy development, innovation management, cross cultural and multi-sectoral issues
- Institutional capacity building, change management and public speaking

PROFESSIONAL BACKGROUND AND SYNOPSIS OF CAREER

Dr. Krattiger, a Swiss citizen, is Research Professor at ASU. He just published as editor in chief a 157 chapter, 2000 page Handbook of IP management and principal author of the companion Executive Guide; www.ipHandbook.org). He also co-teaches a graduate course on *IP Management in the Life Sciences* at Cornell University and a course on *Innovation and IP Management* at Arizona State University's Sandra Day O'Connor College of Law, manages the IP component and global access strategy of plant derived pharmaceuticals and vaccines at ASU's Biodesign Institute.

He began his career as a farmer in Switzerland, lived in many parts of the world, including in Mexico while working at CIMMYT. In 1991, he assisted a colleague in the creation of an international biotech broker, ISAAA, to facilitate biotech transfer from such companies as Monsanto, DuPont, Novartis (now Syngenta) and others via licensing and public-private partnerships. As executive director of ISAAA, he led this global organization to 2000. He also briefly worked at the International Academy of the Environment, creating a Biodiversity/Biotechnology Program on policy and strategic issues at the nexus of the Biodiversity Convention.

Dr. Krattiger is a member of the Advisory Committee of the Franklin Pierce Law Center, a member of the Board of the Black Sea Biotechnology Association, Editor-in-Chief of *Innovation Strategy Today*, and is a member of the Editorial Boards of the *Int. J. of Biotechnology* and of the *Int. J. of Technology Transfer and Commercialization*. He also serves on the Advisory Board of CABI's online service AgBiotechNet, is Life Member of the Society for International Development and was a Distinguished Advisor to the Council for Biotechnology Information in Washington DC until the Council merged with BIO. He edited several books and has over 100 publications in refereed journals, book chapters and conference proceedings; he often speaks at international meetings and is a popular and keynote speaker, traveling widely and working extensively around the world. He is fluent in German, English, French, and Spanish.

He recently served as Executive to the Humanitarian Board for GoldenRice, working on patent pooling, licensing, technology transfer and regulatory issues. He recently founded *bioDevelopments*—International Institute, a non-profit organization that brings people together for the joint development of solutions to problems that extend beyond geographic and cultural frontiers for which he serves as Chairman. It has currently projects sponsored by the Rockefeller Foundation and others. As a founder of *bioDevelopments* (International Consultants) LLC, he works on a range of strategic and IP issues at the crossroads of businesses, government, and the philanthropic community, consulting for the public and private sectors globally and the philanthropic community.

MEMBERSHIPS AND EDITORIAL BOARDS

Member of the Advisory Committee on Intellectual Property at the Franklin Pierce Law Center.

Founding Board Member, Black Sea Biotechnology (BSB) Association.

Editor-in-Chief of *Innovation Strategy Today*, an eJournal. www.biodevelopments.org/innovation

Member of the Editorial Board, *International Journal of biotechnology* and of the *International Journal of Technology Transfer and Commercialization*. www.cid.harvard.edu/cidtech/journals.html

Advisory Board of CABI's online service for agricultural biotechnology. www.agbiotechnet.com (to 2003)

Life member of the Society for International Development. www.sidint.org

Distinguished Advisor, Council for Biotech Information, Washington DC (to 2004)

PUBLICATIONS

Edited and co-edited several books on biosafety, biotechnology, biodiversity, international development, and intellectual property management. Over 100 publications in refereed journals, book chapters and conference proceedings, plus a range of reports and strategy documents.

OTHER

Lectured widely and presented keynote addresses at conferences around the world. Lived in a developing country (Mexico) and traveled widely and worked in Africa, Asia, Eastern Europe and Latin America.

Fluent in German and English, Speaking and reading in French and Spanish with acceptable writing.

Swiss citizen.

April 2008.

List of Publications

Books

- Krattiger A, RT Mahoney, L Nelsen, JA Thomson, AB Bennett, K Satyanarayana, GD Graff, C Fernandez and SP Kowalski (eds.). 2007. *Intellectual Property Management in Health and Agricultural Innovation: A Handbook of Best Practices* (eds. A Krattiger, RT Mahoney, L Nelsen, et al.). MIHR: Oxford, U.K., and PIPRA: Davis, U.S.A. pp. 1998.
- Krattiger A, with RT Mahoney, L Nelsen, JA Thomson, AB Bennett, K Satyanarayana, GD Graff, C Fernandez and SP Kowalski. 2007. *Executive Guide to Intellectual Property Management in Health and Agricultural Innovation: A Handbook of Best Practices*. MIHR: Oxford, UK, PIPRA: Davis, USA, Fiocruz, Brazil, and bioDevelopments-International Institute: Ithaca NY.
- von Braun J, M Qaim and AF Krattiger, Eds. 2000. *Agricultural Biotechnology in Developing Countries: Towards Optimizing the Benefits for the Poor*. Kluwer Academic Publishers. The Netherlands. pp. 433.
- Krattiger AF and A Rosemarin, Eds. 1994. *Biosafety for Sustainable Agriculture: Sharing the Biotechnology Regulatory Experiences of the Western Hemisphere*. ISAAA: Ithaca and SEI: Stockholm. pp. 278.
- Krattiger AF, J McNeely, WH Lesser, KR Miller, Y StHill and R Senanayake, Eds. 1994. *Widening Perspectives on Biodiversity*. IUCN—The World Conservation Union: Gland and International Academy of the Environment: Geneva. pp. 473.
- Krattiger AF. 1993, Ed. The Costa Rican ISAAA Biosafety Workshop. A collection of 60 papers, presentations and discussions on biosafety regulatory mechanisms. ISAAA: Ithaca NY. Pp 362.

Papers, Monographs and Book Chapters

- Krattiger, A. 2008. Access and Benefit Sharing (ABS) in the context of bioprospecting and Traditional Knowledge. *Business 2010*. 3(3):48-49. Special issue for COP-9.
www.cbd.int/business/newsletter.shtml
- Krattiger, A. 2007. Using the power of intellectual property to strengthen equitable access. *In Equitable Access: Research Challenges for Health in Health Countries*. Global Forum Update on Research for Health Vol 4. GFHR: Geneva. Pp 84-87.
http://www.globalforumhealth.org/filesupld/global_update4/chapt/GlobalUpdate4_IntellectualProperty_Krattiger.pdf
- Krattiger A. 2007. Why Does Intellectual Property Management Matter for the Public Sector? *WIPO Magazine* 5:10-13.
www.wipo.int/export/sites/www/wipo_magazine/en/pdf/2007/wipo_pub_121_2007_05.pdf
- Krattiger A. 2007. Why intellectual property management matters for the public sector. *STEM Newsletter* Vol 2, No 2.
- Mahoney RT, A Krattiger, JD Clemens and R Curtiss III. 2007. The introduction of new vaccines into developing countries IV: Global Access Strategies. *Vaccine* 25(2007):4003–4011.
- Krattiger A. 2007. Freedom to Operate, Public Sector Research and Product-Development Partnerships: Strategies and Risk-Management Options. *In Intellectual Property Management in Health and Agricultural Innovation: A Handbook of Best Practices* (eds. A Krattiger, RT Mahoney, L Nelsen, et al.). MIHR: Oxford, U.K., and PIPRA: Davis, U.S.A.

- Krattiger A. 2007. The Use of Nonassertion Covenants: A Tool to Facilitate Humanitarian Licensing, Manage Liability, and Foster Global Access. In *Intellectual Property Management in Health and Agricultural Innovation: A Handbook of Best Practices* (eds. A Krattiger, RT Mahoney, L Nelsen, et al.). MIHR: Oxford, U.K., and PIPRA: Davis, U.S.A. Chapter 7.6. pp. 739-744.
- Krattiger A and SP Kowalski. 2007. Facilitating Assembly of and Access to Intellectual Property: Focus on Patent Pools and a Review of Other Mechanisms. In *Intellectual Property Management in Health and Agricultural Innovation: A Handbook of Best Practices* (eds. A Krattiger, RT Mahoney, L Nelsen, et al.). MIHR: Oxford, U.K., and PIPRA: Davis, U.S.A. Chapter 2.8. pp. 131-144.
- Krattiger A and R Mahoney. 2007. Specific IP Issues with Molecular Pharming: Case Study of Plant-Derived Vaccines. In *Intellectual Property Management in Health and Agricultural Innovation: A Handbook of Best Practices* (eds. A Krattiger, RT Mahoney, L Nelsen, et al.). MIHR: Oxford, U.K., and PIPRA: Davis, U.S.A. Chapter 17.23. pp.1809-1817.
- Krattiger A, RT Mahoney, L Nelsen, JA Thomson, AB Bennett, K Satyanarayana, GD Graff, C Fernandez and SP Kowalski. 2007. From Best Principles to Best Practice: Message from the Editorial Board. In *Intellectual Property Management in Health and Agricultural Innovation: A Handbook of Best Practices* (eds. A Krattiger, RT Mahoney, L Nelsen, et al.). MIHR: Oxford, U.K., and PIPRA: Davis, U.S.A. pp. xxxvii-xxxiv.
- Krattiger A, J Dodds and D Bobrowicz. 2007. Potential Use of a Computer-Generated Contract Template System (CoGenCo) to Facilitate Licensing of Traits and Varieties. In *Intellectual Property Management in Health and Agricultural Innovation: A Handbook of Best Practices* (eds. A Krattiger, RT Mahoney, L Nelsen, et al.). MIHR: Oxford, U.K., and PIPRA: Davis, U.S.A. Chapter 11.4. pp. 1029-1042.
- Dodds J and A Krattiger. 2007. The Statutory Toolbox: An Introduction. In *Intellectual Property Management in Health and Agricultural Innovation: A Handbook of Best Practices* (eds. A Krattiger, RT Mahoney, L Nelsen, et al.). MIHR: Oxford, U.K., and PIPRA: Davis, U.S.A. Chapter 4.1. pp.337-350.
- Dodds J, A Krattiger and SP Kowalski. 2007. Plants, Germplasm, Genebanks, and Intellectual Property: Principles, Options, and Management. In *Intellectual Property Management in Health and Agricultural Innovation: A Handbook of Best Practices* (eds. A Krattiger, RT Mahoney, L Nelsen, et al.). MIHR: Oxford, U.K., and PIPRA: Davis, U.S.A. Chapter 389-400.
- Dodds J, S Somersalo, SP Kowalski and A Krattiger. 2007. IP and Information Management: Libraries, Databases, Geographic Information Systems, and Software. In *Intellectual Property Management in Health and Agricultural Innovation: A Handbook of Best Practices* (eds. A Krattiger, RT Mahoney, L Nelsen, et al.). MIHR: Oxford, U.K., and PIPRA: Davis, U.S.A. Chapter 4.8. pp. 419-429.
- Kowalski SP and A Krattiger. Confidentiality Agreements: A Basis for Partnerships. In *Intellectual Property Management in Health and Agricultural Innovation: A Handbook of Best Practices* (eds. A Krattiger, RT Mahoney, L Nelsen, et al.). MIHR: Oxford, U.K., and PIPRA: Davis, U.S.A. Chapter 7.2. pp. 689-696.
- Lesser WH and A Krattiger. 2007. Valuation of Bioprospecting Samples: Approaches, Calculations, and Implications for Policy-Makers. In *Intellectual Property Management in Health and Agricultural Innovation: A Handbook of Best Practices* (eds. A Krattiger, RT Mahoney, L Nelsen, et al.). MIHR: Oxford, U.K., and PIPRA: Davis, U.S.A. Chapter 9.4. pp. 861-976.
- Mahoney RT and A Krattiger. Agreements: A Review of Essential Tools of IP Management. In *Intellectual Property Management in Health and Agricultural Innovation: A Handbook of Best Practices* (eds. A Krattiger, RT Mahoney, L Nelsen, et al.). MIHR: Oxford, U.K., and PIPRA: Davis, U.S.A. Chapter 7.1. pp. 675-688.
- Mahoney RT and A Krattiger. The Role of IP Management in Health and Agricultural Innovation. In *Intellectual Property Management in Health and Agricultural Innovation: A Handbook of*

- Best Practices* (eds. A Krattiger, RT Mahoney, L Nelsen, et al.). MIHR: Oxford, U.K., and PIPRA: Davis, U.S.A. Chapter 1.1. pp.3-12.
- Nelsen L and A Krattiger. 2007. Ensuring Developing-Country Access to New Inventions: The Role of Patents and the Power of Public Sector Research Institutions. In *Intellectual Property Management in Health and Agricultural Innovation: A Handbook of Best Practices* (eds. A Krattiger, RT Mahoney, L Nelsen, et al.). MIHR: Oxford, U.K., and PIPRA: Davis, U.S.A. Chapter 1.4. pp.23-28.
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- Krattiger AF and M Elliott. 2005. IPRs: Must There be a Conflict Between Commercial Need and Humanitarian Benefits?. In: Serageldin, I. and Persley, G.J. (eds) *Discovery to Delivery: BioVision Alexandria 2005*. Alexandria: Bibliotheca Alexandrina, 2005, pp. 345-356.
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- Pefile, S. and AF Krattiger. 2004. Training and Education. In *Handbook of Best Practices for Management of Intellectual Property in Health Research and Development*. RT Mahoney Ed. MIHR: Oxford, UK. Pp 27-45.
- Krattiger, AF. 2004. Financing the Bioindustry and Facilitating Biotech Transfer: An Analysis of Proprietary Technology Transfer Mechanisms, Funding Systems and Partnerships, and Proposals for Public/Private Investment Services and Policy Initiatives. *IP Strategy Today* no 8-2004. pp. 45.
- Krattiger, AF. 2003. Public-Private Partnerships for Efficient Proprietary Biotech Science Management. *IP Law News (By Invitation)* 1(2):8-11.

- Krattiger, AF. 2003. Technology transfer to developing countries and technology diffusion: The future role of institutions in capacity building, regulations, IPRs and Funding. In Handbook of Plant Biotechnology (eds. Paul Christou and Harry Klee). John Wiley & Sons, London. Pp 987-1010. <http://www.wiley.com/WileyCDA/WileyTitle/productCd-047185199X.descCd-tableOfContents.html>
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- Krattiger AF. 2003. Widening Perspectives on Biodiversity: Impact of agricultural biotechnology on ecosystems. In Methods for risk assessment of transgenic plants. IV. Biodiversity and biotechnology. (K. Amman and R Braun, eds). Birkhäuser Verlag, Basel. pp. 3-9.
- Krattiger A.F. 2004. In Search of Common Goals among Opponents: The Example of Intellectual Property Rights. In From Global Inequity towards a Humane World. Knowledge, Science, Society Dialogue in Engelberg. Engelberg, Switzerland, 23-25 October 2002. K. Ammann (ed.). pp. in press.
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- Krattiger, AF. 2003. Intellectual property issues in technology uptake in developing countries: Why the past is not a reference for future trends. Phytopathology: 93:6(S111) [abstract].
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- Krattiger, A.F. 2002. How can intellectual property rights contribute to the food security of an increasingly globalized world while meeting the demands of farmers and breeders? In Protect Knowledge to feed the world? The application of intellectual property rights in international agriculture today and tomorrow. InfoAgrar, Zollikofen, Switzerland.
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- Krattiger, A.F. 2001. High Anxiety and Biotechnology: Who's Buying, Who's Not, and Why? The Scientist's Perspective. NABC Annual Conference, Chicago, May 22 - 24, 2001. NABC Report 13:
- Qaim, M., A.F. Krattiger, and J. von Braun. 2000. Introduction. In *Agricultural Biotechnology in Developing Countries: Towards Optimizing the Benefits for the Poor*. Kluwer Academic Publishers. The Netherlands. pp. 433. pp. 1-6.
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- Krattiger, A.F. 1999. Networking Biotechnology Solutions with Developing Countries: the Mission and Strategy of the International Service for the Acquisition of Agri-biotech Applications (ISAAA). In T. Hohn and K. Leisinger, (eds.) *Biotechnology of Food Crops in Developing Countries*. Springer Verlag, New York. pp. 25-33.
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