

Patent Intensity and Economic Growth

Economic growth has traditionally been attributed to the increase in national production arising from technological innovation. Using a panel of seventy-nine countries bridging the North-South divide, *Patent Intensity and Economic Growth* is an important empirical study on the uncertain relationship between patents and economic growth. It considers the impact of one-size-fits-all patent policies on developing countries and their innovation-based economic growth, including those policies originating from the World Intellectual Property Organization, the World Trade Organization and the World Health Organization, as well as initiatives derived from the TRIPS Agreement and the Washington Consensus. This book argues against patent harmonization across countries and provides an analytical framework for country group coalitioning on policy at UN level. It will appeal to scholars and students of patent law, national and international policy makers, venture capitalist investors, and research and development managers, as well as researchers in intellectual property, innovation and economic growth.

Dr. Daniel Benoliel is a law professor at the University of Haifa Faculty of Law and Haifa Center of Law and Technology (HCLT). His main fields of expertise include international intellectual property, patent law and innovation, public international law, and entrepreneurship law. Benoliel holds a Doctorate in law (J.S.D.) from UC Berkeley School of law (Boalt Hall) and is a John M. Olin Research Fellow as well as a Yale Law School Information Society Project (ISP) Visiting Fellow alumnus. Benoliel has received numerous prizes, awards, and research grants in these fields.

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Patent Intensity and Economic Growth

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The University of Haifa Faculty of Law

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Abbreviations

A2K	Access To Knowledge
ABS	Nagoya Protocol on Access to Genetic Resources and the Fair and Equitable Sharing of Benefits Arising from Their Utilization
ACTA	Anti-Counterfeiting Trade Agreement
AIE	Academy of Innovation and Entrepreneurship
BTAP	Beijing Treaty on Audiovisual Performances
CART	Classification and Regression Tree
CBD	Convention on Biological Diversity
CEEC	Central and Eastern European Country
CIS	Commonwealth of Independent States
CMS	Carnegie Mellon Survey
DACD	Development Agenda Coordination Division
DACD	WIPO Development Agenda Coordination Division
DLT	Design Law treaty
ENWISE	Central and Eastern European Countries and the Baltic State
EPC	European Patent Convention
EPO	European Patent Office
EU	European Union
FDI	Foreign Direct Investment
FTA	Free Trade Agreement
FTE	Full-Time Equivalent
GATT	General Agreement on Tariffs and Trade
GDP	Gross Domestic Product
GERD	Gross Domestic Expenditure on R&D
GI	Geographic Indications
GII	Global Innovation Index
GNI	Gross National Income
GSPOA	WHO Global Strategy and Plan of Action on Public Health, Innovation and Intellectual Property
GVC	Global Value Chain

HC	Head Count
HCLT	Haifa Center of Law and Technology
HDI	Human Development Index
IBSA	India, Brazil and South Africa Initiative
ICT	Information and Communications Technology
IDB	Industrial Development Board
IGWG	WHO Intergovernmental Working Group
ILO	International Labor Organization
ILPO	Israel Patent Office
IMF	International Monetary Fund
IPR	Intellectual Property Right
ISF	Israel Science Foundation
IT	Information Technology
JPO	Japanese Patent Office
LDC	Least-Developed Countries
MAR	Marshall-Arrow-Romer knowledge spillover
MDG	Millennium Development Goal
MFN	Most-Favored Nation
MNC	Multinational Corporation
MNRE	Ministry of New and Renewable Energy of India
MVT	Marrakesh Treaty to Facilitate Access to Published Works for Persons Who Are Blind, Visually Impaired, or Otherwise Print Disabled
NIC	Newly Industrialized Country
NIE	Newly Industrialized Economy
NIEO	New International Economic Order
NIH	National Institutes of Health in the United States
NIPS	National Intellectual Property Strategy
NSF	National Science Foundation
OECD	Economic Cooperation and Development
PCAST	United States President's Council of Advisors on Science and Technology
PCT	Patent Cooperation Treaty
PPP	Purchasing Power Parity
PVP	Plant Variety Protection
R&D	Research and Development
RIS	Regional Innovation Systems
RMB	Chinese Yuan Renminbi
RNA	Ribonucleic Acid
S&T	Science and Technology
SCP	Standing Committee on Patents
SIPO	Chinese State Intellectual Property Office

SPER	Second Pair of Eyes Review program
TFP	Total Factor Productivity
TPP	Trans-Pacific Strategic Economic Partnership Agreement
TRIMS	Agreement on Trade-Related Investment Measures
TRIPS	Agreement on the Trade Related Aspects of Intellectual Property
TTIP	Transatlantic Trade and Investment Partnership
TTO	Technology Transfer Office
UE	Percentage of patents granted out of patents submitted to the USPTO or EPO
UN	United Nations
UNCTAD	United Nations Conference on Trade and Development
UNDP	United Nations Development Programme
UNECE	United Nations Economic Commission for Europe
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNIDO	United Nations Industrial Development Organization
USPTO	United States Patent and Trademark Office
WHA	World Health Assembly
WHO	World Health Organization
WIPO	World Intellectual Property Organization
WTO	World Trade Organization

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