



CENTRE DE RECERCA
EN ECONOMIA INTERNACIONAL
GENERALITAT DE CATALUNYA
UNIVERSITAT POMPEU FABRA

Fundación **BBVA**



**Generalitat
de Catalunya**



FUNDACIÓ CATALANA
PER A LA
**RECERCA
I LA
INNOVACIÓ**



R&D and Innovation in the Development Process A New Look at Theory, Evidence and Policies

Sponsored by the Office of the Chief Economist for Latin America, World Bank,
Centre de Recerca en Economia Internacional, UPF,
Fundación BBVA, Generalitat de Catalunya, Fundació Catalana per a la Recerca i la Innovació and CREA

June 9-11, 2005

**Universitat Pompeu Fabra
Barcelona, Spain**

Program organizers:

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PROGRAM

Thursday, June 9

Chair: Jordi Galí (CREI)

9:00 – 11:00 **Human Capital, Enlightenment and Innovation**

Joel Mokyr (Northwestern University)
 “The Great Synergy: The European Enlightenment as a Factor in Modern Economic Growth”

Discussants: Joachim Voth (Universitat Pompeu Fabra)

Rodolfo Manuelli and Ananth Seshadri (University of Wisconsin, Madison and NBER)
 “Human Capital and the Wealth of Nations”

Discussants: Omar Licandro (European University Institute) and Marcelo Soto (Institut d'Anàlisi Econòmica)

11:00 – 11:30 **Coffee Break**

11:30 – 13:30 **Competition, Volatility and Innovation**

Chair: Tim Kehoe (University of Minnesota)

Diego Comin and Sunil Mulani (New York University and Analysis Group)
 “Growth and Volatility”

Discussants: Diego Puga (University of Toronto and CREI-UPF) and Álvaro Riascos (Banco de la República de Colombia)

Ramon Marimon and Vincenzo Quadrini (CREI-UPF and CREA, and University of Southern California)
 “Competition, Innovation and Growth with Limited Commitment”

Discussants: Stephen Parente (University of Illinois) and Hugo Hopenhayn (UCLA)

13:30 – 15:00 **Lunch**

15:00 – 16:30 **Innovation in Developing Countries: Evidence and Policy**

Chair: Marcelo Tokman, (Ministry of Finance, Chile)

Pablo Sanguinetti (Universidad Torcuato Di Tella, Argentina)
 “Innovation and R&D Expenditures in Argentina: Evidence from a Firm Level Survey”

José Miguel Benavente (Universidad de Chile)
 "Rates of Return and the Industrial Structure of R&D in Chile"

Discussants: Armando Castelar Pinheiro (IPEA, Brasil), Rachel Griffith (IFS, University College London) and Osmel Manzano (CAF, Venezuela)

16:30 – 17:00 **Coffee Break**

17:00 – 18:00 **Panel: On Innovation Policies for Developing Countries**

Moderator: William F. Maloney (World Bank)

Bronwyn Hall (UC Berkeley), On Public Financing of Innovation
 Jan Fagerberg (University of Oslo), On Capacity Competitiveness
 Manuel Trajtenberg (Tel-Aviv University), On Government Support to R&D and the Role of VC

19:30 **Ajuntament de Barcelona and Generalitat de Catalunya Reception**

Friday, June 10

9:00 – 11:00 **Science, Innovation and Institutions**

Chair: Fiona Murray (MIT)

Paul Romer (Stanford University)
 "The Arc of Science"

Nathan Rosenberg¹ (Stanford University)
 "Science and Technology: Which Way does the Causation Run?"

Discussants: Paula E. Stephan (Georgia State University) and Paul David (University of Oxford)

Philippe Aghion, Mathias Dewatripoint and Jeremy Stein (Harvard University, Université Libre de Bruxelles and Harvard University)
 "Academia, the Private Sector, and the Process of Innovation"

Discussants: Andreu Mas-Colell (Universitat Pompeu Fabra) and Juan Pablo Nicolini (Universidad Torcuato Di Tella, Argentina)

11:00 – 11:30 **Coffee Break**

¹ Co-sponsored by the European Commission under the project "Economic change: Micro-foundations of entrepreneurial and organisational changes in Europe" (HPSE-CT-2002-00146)

11:30 – 13:30	<p>Policy Panel Discussion: Choosing and Designing R&D and Innovation Policies to Enhance Growth</p> <p>Moderator: Ramon Marimon (CREI-UPF and CREA)</p> <p>Marta Aymerich, Director of Interministerial Council for Research and Technological Innovation, Catalonia Guillermo Perry, Chief Economist, Latin American and Caribbean Region, World Bank Nathan Rosenberg, Stanford University Luc Soete, Universiteit Maastrich Andrew Sors, DG Research, European Commission Enric Banda, Director of Fundació Catalana per a la Recerca i la Innovació</p>
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13:30 – 15:00	<p>Lunch</p>
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15:00 – 16:30	<p>Measuring Innovation Performance in Developing Countries</p> <p>Chair: Bruno Cassiman (IESE Business School)</p> <p>Andrés Rodríguez-Clare (Inter American Development Bank, Pennsylvania State University) "Identifying R&D Shortfalls in LDCs"</p> <p>Mariano Bosch, Daniel Lederman and William F. Maloney (LSE and World Bank) "Patenting and Research and Development: A Global View"</p> <p>Discussants: Gerardo Esquivel (Colegio de México), Rodrigo Fuentes (Central Bank of Chile) and Reinhilde Veugelers (KUL, ECFIN & CEPR)</p>
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16:30 – 17:00	<p>Coffee Break</p>
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17:00 – 19:00	<p>International Dimensions of Innovation</p> <p>Chair: José Luis Guasch, (World Bank)</p> <p>Jonathan Eaton and Samuel Kortum (New York University and University of Minnesota) "Innovation, Diffusion and Trade"</p> <p>Discussants: Jaume Ventura (CREI) and Eduardo Morón (Universidad del Pacífico, Perú)</p> <p>David Mayer-Foulkes and Peter Nunnenkamp (Centro de Investigación y Docencia Económicas, Mexico and Institute for World Economics, Kiel) "Do Multinational Enterprises Contribute to Convergence or Divergence? A Disaggregated Analysis of US FDI"</p> <p>Discussants: Giorgia Giovanetti (Università di Firenze and ICE) and Claudio Bravo-Ortega (Universidad de Chile)</p>

Saturday, June 11

9:00 – 10:00

Innovation and Employment

Chair:

Geoffrey Lewis (New Zealand Treasury)

Rupert Harrison, Jordi Jaumandreu, Jacques Mairesse, and Bettina Peters (IFS and UCL, UC3M, Crest and ZEW)

“Does Innovation Stimulate Employment? A Firm-Level Analysis Using Comparable Micro Data from Four European Countries”

Discussants

Walter García-Fontes (Universitat Pompeu Fabra) and Sebastián Galiani (Universidad Torcuato Di Tella, Argentina)

10:00 – 10:30

Coffee Break

10:30 – 12:30

Intellectual Property Rights

Chair:

Xavier Vives (UPF and INSEAD)

Michele Boldrin and David Levine (University of Minnesota and UCLA)

“Intellectual Property and Market Size”

Fiona Murray and Scott Stern (MIT and Northwestern University)

“Do Formal Intellectual Property Rights Hinder the Free Flow of Scientific Knowledge? An Empirical Test of the Anti-Commons Hypothesis”

Alfonso Gambardella, Dietmar Harhoff and Bart Verspagen (Università Bocconi, Universität München and Eindhoven University of Technology)

“The Value of Patents”

12:30 – 13:30

Panel: Are the Current IPR Systems Stimulating Innovation and Development?

Moderator:

Paul Romer (Stanford University)

Dominique Guellec, Chief Economist (European Patent Office)

Keith Maskus (University of Colorado Boulder)

Ashish Arora (Carnegie Mellon University)

Closing remarks
