

**Research Grants**

- 1990-1993 Technion Grant for Promotion of Research,  
Title of Research: Information Theoretic Models for Magnetic Recording Channels.  
Total Budget: \$2,000×3.
- 1992-1993 The Ministry of Communications Research Grant.  
 Co-recipient with E. Zehavi.  
Title of Research: Issues in Trellis Coded Modulation.  
Total Budget: \$20,000×2.
- 1993-1996 Technion Grant for Promotion of Research.  
Title of Research: Information Rates in Constrained Channels.  
Total Budget: \$4,000×3.
- 1994-1997 The Binational Scientific Foundation Grant.  
 Co-recipient with S. Verdu (Princeton University).  
Title of Research: Analysis of Single and Multiple Terminal Additive Noise Channels under Nonstandard Constraints.  
Total Budget: \$25,000×3.
- 1997-1999 Technion Grant for Promotion of Research.  
Title of Research: Information Theoretic Aspects of Communication over Fading Channels  
Total Budget: \$4,000.
- 1998-2000 The Binational Scientific Foundation Grant.  
 Co-recipient with S. Verdu (Princeton University).  
Title of Research: Information Theoretic Investigation of Random Spreading Code Division Multiple Access.  
Total Budget: \$21,000×3.
- 1998-2000 The Israel Academy of Sciences and Humanities Research Grant.  
Title of Research: Reliable Information Rates for Basic Models of Cellular Communication Systems.  
Total Budget: \$38,000×3.
- 2000–2003 The Binational Science Foundation Grant.  
 Co-recipient with S. Verdú (Princeton University).  
Title of Research: Information-Theoretic and Communications Aspects of Time-Varying Fading Channels.  
Total Budget: \$24,000×3.
- 2000–2003 The Israel Academy of Science and Humanities Research Grant.  
 Co-recipient with Y. Steinberg (EE Dept., Technion).  
Title of Research: Information Theoretic Study of Communication and Identification Channels.  
Total Budget: \$54,000×3.
- 2001–2002 The Eliyahu Pen Technion Research Grant for Excellence in Funded Research Activity.  
Total Budget: \$4,000.
- 2001–2004 The Israel Academy of Science and Humanities Research Grant.  
 Submitted with R. Zamir (EE Dept.–Systems, Tel-Aviv Univ.)  
Title of Research: Nested Codes with Applications to Multi-terminal/Multi-link Systems.

- 2003–2007 The Israel Academy of Science and Humanities Research Grant.  
Co-investigator Y. Steinberg (EE Dept., Technion).  
Title of Research: Multiterminal Communications with Side Information: An Information Theoretic Inspired Approach.  
Budget: \$50,000×4.
- 2004–2006 European-Union Sixth Framework Programme NEWCOM—  
Network of Excellence in Wireless COMMunication.  
Budget: EUR 56,000.
- 2004–2007 The Israel Academy of Science and Humanities Research Grant.  
Co-investigator Y. C. Eldar (EE Dept., Technion).  
Title of Research: Least-Squares Inner Product Shaping: Theory and Applications to Communication System.  
Budget: \$35,000×3.
- 2005–2009 The Binational Science Foundation Grant.  
Co-investigator S. Verdú (Princeton University).  
Title of Research: Information Theory and Estimation: Interactions and Applications. Budget: \$20,000×4.
- 2006–2007 INTEL.  
Co-investigators A. Orda and Y. Steinberg.  
Title of Research: Wireless Networks: Cooperative Approach in Communications and Protocols.  
Budget: \$27,000.
- 2006–2009 Marie Curie Foundation.  
Principal Investigator Anelia Somekh-Baruch (EE Dept., Technion).  
Title of Research: Applications of Multiuser Information Theory to Data Hiding.  
Total Budget: EUR 259,852.
- 2007–2011 The Israel Academy of Science and Humanities Research Grant.  
Principal Investigator: Shlomo Shamaï  
Co-investigator: Y. C. Eldar (EE Dept., Technion).  
Title of Research: Multi-Element Communications under Uncertainty Conditions: An Information Theoretic and Signal Processing Interplay.  
Budget: \$75,000×4.
- 2008–2010 European-Union Seventh Framework Programme NEWCOM++  
Network of Excellence in Wireless COMMunication.  
Budget: EUR 50,000×3.