



# GRUBER

F O U N D A T I O N



## FY 2012 Annual Report

July 1, 2011 – June 30, 2012

*A supporting organization of* **Yale**

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The Gruber Foundation  
December 8, 2012  
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## Executive Summary

*The Gruber Foundation honors individuals in the fields of Cosmology, Genetics, Neuroscience, Justice, and Women's Rights, whose groundbreaking work provides new models that inspire and enable fundamental shifts in knowledge and culture.*

The Gruber Foundation is a 509(a)(3) Type 1 supporting organization operated, supervised, or controlled by Yale University and incorporated in 2011 under the 501(c)(3) section of U.S. Corporate Law. It was funded by The Peter and Patricia Gruber Foundation, and Peter and Patricia Gruber serve as its Co-founders, and Chairman Emeritus and President Emeritus, respectively.

Fiscal year 2012 was the Foundation's first year of existence and it was characterized by the transition challenges that had been anticipated: staff changes; closing and opening offices; funding overlaps; systems changes; policy and procedure updates; understandable confusion over the differences between it and The Peter and Patricia Gruber Foundation, its predecessor.

As of June 30, 2012, Foundation operations are run entirely out of its New Haven office, housed in Yale's Office of Development. The Foundation's website is being moved to Yale's servers, and may be found at: [www.gruber.yale.edu](http://www.gruber.yale.edu) Further information on the Foundation is available on the website.

The 2011 Gruber International Prizes occasioned the final awards of the Justice and Women's Rights Prizes, the missions of which are now served by the Gruber Program for Global Justice and Women's Rights, administered by Yale Law School. 2011 was also the inaugural year for the Gruber Science Fellowship Program administered by Yale's Graduate School. The three programs are described in their respective sections.

The Board of Directors of The Gruber Foundation comprises: Richard Levin, Chairman; Peter Salovey, President; Patricia Gruber, President Emeritus; Inge Reichenbach; Waring Partridge. The Treasurer is Robert Herr, and the Executive Director is A. Sarah Hreha.



**A. Sarah Hreha, Executive Director**

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## Fiscal Year 2012 Financial Overview

### Statement of Financial Position as of June 30, 2012

#### Assets

Cash and cash equivalents	\$ 31,418
Investments	81,175,923
Beneficial interest in charitable gift annuity	<u>10,989,754</u>
<b>Total assets</b>	<u>92,197,095</u>

#### Liabilities

Accounts payable	<u>95,520</u>
<b>Total liabilities</b>	<u>95,520</u>

#### Net assets

\$92,101,574

### PROGRAM SPENDING

#### Grants to Yale University

The Gruber Foundation provides grants to Yale University for the Gruber Science Fellowship Program and the Gruber Program for Global Justice and Women's Rights. The agreement provides that the Gruber Foundation will distribute for the benefit of the Gruber Science Fellowship Program the greater of \$2.5 million or 1.6% of the net value of The Gruber Foundation's assets as of the beginning of each fiscal year. In addition the agreement provides for disbursements of \$1.2 million for the benefit of the Global justice and Women's Rights Program.

In the initial year of The Gruber Foundation 75% of the proposed funding has been distributed to these programs:

Gruber Science Fellowship Program	\$1,875,000
Gruber Justice and Women's Rights	<u>\$ 900,000</u>
	\$2, 775,000

#### Gruber Prizes

Gruber Prizes disbursed through June 30, 2012 were as follows:

2011 Cosmology Prize	\$500,000
2011 Genetics Prize	\$500,000
2011 Neuroscience Prize	\$500,000
2011 Justice Prize	\$500,000
2011 Women's Right Prize	<u>\$500,000</u>
	\$2,500,000

## Gruber International Prize Program

Fiscal year 2012 saw the 2011 Gruber Prize awards in the fall of 2011. 2011 was the final year of award for the Justice and Women's Rights Prizes, the missions of which are continued by the Gruber Program for Global Justice and Women's Rights. Legacy information for the Justice and Women's Rights Prizes is available online at: <http://gruber.yale.edu/archived-programs>

The revised program mission statement is: *The International Prize Program honors individuals in the fields of Cosmology, Genetics, and Neuroscience, whose groundbreaking work provides new models that inspire and enable fundamental shifts in knowledge and culture.*

### The 2011 Prizes



2011 Cosmology Prize recipients Marc Davis, George Efstathiou, Carlos Frenk and Simon White, with Patricia Gruber.

#### COSMOLOGY

October 27, 2011

Max Planck Institute for Extraterrestrial Physics  
Garching, Germany

Gruber Lecture: *Computer Simulations and the Development of the Cold Dark Matter Cosmology*

#### Prize Citation:

The Peter and Patricia Gruber Foundation proudly presents the 2011 Cosmology Prize to Marc Davis, George Efstathiou, Carlos Frenk and Simon White for their pioneering use of numerical simulations to model and interpret the large-scale distribution of matter in the Universe.

Cosmological simulations allow direct confrontation between observation and theory, and have transformed the way we conceive and visualize the growth of structure in the Universe.

The work of Professors Davis, Efstathiou, Frenk and White galvanized support for "cold dark matter" as the dominant form of matter in the Universe and has thus been instrumental in the crafting of our current cosmological paradigm.

**Selection Advisory Board:** Jacqueline Bergeron, Ronald Ekers, Wendy Laurel Freedman (Chair), Owen Gingerich (non-voting), Helge Kragh, Andrei Linde, Julio Navarro, Roger Penrose, Virginia Trimble (non-voting)

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#### GENETICS

October 13, 2011

12th International Congress of Human Genetics / 61st Annual Meeting of the  
American Society of Human Genetics, Montreal, Canada  
Gruber Lecture: *Health Advanced Technology Project (HAT Project)*

#### Prize Citation:

The Peter and Patricia Gruber Foundation proudly presents the 2011 Genetics Prize to Ronald W. Davis, a pioneer in the development and application of recombinant-DNA techniques.

Davis discovered that the *EcoRI* restriction endonuclease generates



2011 Genetics Prize recipient Ron Davis with Patricia Gruber.

“sticky” ends when it cleaves DNA and, based on this discovery, developed highly efficient systems for producing, propagating, and screening recombinant-DNA clones in *Escherichia coli*. This technology shaped later approaches to the study of the human and other genomes.

Using the yeast *Saccharomyces cerevisiae* as host, Davis designed recombinant-DNA molecules whose genetic behavior could be precisely controlled. During this work, he discovered the first eukaryotic replication origins, the autonomously replicating sequences, and carried out the first targeted deletion of a gene. Throughout his career—by training students, communicating openly with colleagues, and leading through the example of his own research—Davis has profoundly influenced the way scientists study the molecular basis of life.

**Selection Advisory Board:** Elizabeth Blackburn (Chair), Martin Chalfie, Mary-Claire King, Maynard Olson, Janet Rowley, Allan Spradling, Robert Waterston

## NEUROSCIENCE

November 13, 2011

Society for Neuroscience Meeting, Washington D.C.

Gruber Lecture: *Rett syndrome: Linking Epigenetics and Neuronal Plasticity*



2011 Neuroscience Prize recipient  
Huda Zoghbi with Patricia Gruber.

### Prize Citation:

The Peter and Patricia Gruber Foundation proudly presents the **2011 Neuroscience Prize** to **Huda Zoghbi** for her pioneering work on revealing the genetic underpinnings of neurological disorders.

Huda Zoghbi discovered that mutations in the *MECP2* gene cause Rett syndrome, an autism spectrum disorder. Her work on *MECP2* offers a new understanding of gene regulation in brain disorders and opens a new approach to studies of autism and other psychiatric disorders. She also illuminated the genetic basis of several spinocerebellar ataxias and provided insights on the role of protein aggregation in neurodegeneration.

Huda Zoghbi’s work has inspired many other researchers in the broad field of neurological disorders, and serves as an exemplar of how complex brain disorders can be better understood by basic genetics and molecular neuroscience.

**Selection Advisory Board:** Carol Barnes (Chair), Stephen Heinemann, Masao Ito, David Lewis, Erwin Neher, Li-Huei Tsai

## JUSTICE



2011 Justice Prize recipients during panel discussion

October 6, 2011

National Constitution Center, Philadelphia, PA

Panel Discussion: *Justice Under Law; Practical Challenges*

### Prize Citation:

The Peter and Patricia Gruber Foundation proudly presents the **2011 Justice Prize** to

December 8, 2012

five recipients for extraordinary contributions over many years to human rights and the rule of law.

For over 35 years, **Barbara Arnwine** has promoted equal justice for disadvantaged groups both domestically and internationally.

For more than 40 years, **Morris Dees** has battled the many faces of injustice in defense of vulnerable groups. Through the Southern Poverty Law Center, he has been a courageous voice for justice.

For over 38 years the **Association for Civil Rights in Israel** has promoted and defended the rights of vulnerable communities in Israel and the occupied territories. It has been a courageous voice for the human rights of all.

For more than 30 years the **Center for Legal and Social Studies** has worked to eradicate human rights abuses in Argentina. It has labored to defend the legal rights of the vulnerable and to protect the human rights of all through the law.

For over 17 years, the **Kurdish Human Rights Project** has, both in the world and before the European Court of Human Rights, promoted and protected the human rights of all who live in the Kurdish regions.

**Selection Advisory Board:** Carmen Maria Argibay, Arthur Chaskalson (Chair), Param Cumaraswamy, Bernice Donald, Michael Kirby, Robert Kushen, Ramón Mullerat

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### Women's Rights

September 26, 2011

The Yale Club of New York City

Panel Discussion: *The Essential Role of Women in Post-conflict Peace Building and Development*

Chantal Kabasinga, president,  
2011 Women's Rights Prize recipient  
AVEGA Agahozo,  
with Patricia Gruber.

### PRIZE CITATION:

**The Peter and Patricia Gruber Foundation** proudly presents the **2011 Women's Rights Prize** to **AVEGA Agahozo**, an association of genocide widows in Rwanda which has, through strategies of advocacy, legal aid, health care, housing, trauma counseling and income generation, restored the dignity of thousands of women survivors.

AVEGA, founded by 50 genocide survivors in 1995, has fought successfully for legal reforms raising the penalties for rape and sexual violence and enabling widows to inherit their husbands' property. They have counseled survivors to testify against genocide perpetrators in the traditional courts, achieving perhaps their greatest victory when the International Criminal Tribunal for Rwanda made the historic ruling that rape was an act of genocide.

**Selection Advisory Board:** Sakiko Fukuda-Parr, Pinar Ilkcaracan (Chair), Akua Kuenyahia, Cecilia Medina Quiroga, Thandabantu Nhlapo, Françoise Girard, Sakena Yacoobi

More information on the 2011 Gruber Prizes is available at: <http://gruber.yale.edu/gruber-prizes>

## Gruber Program for Global Justice and Women's Rights

Fiscal Year 2012 was the inaugural year for the Gruber Program for Global Justice and Women's Rights, with focus necessarily on the implementation of the program's three core components: 1) the Global Constitutionalism Seminar; 2) the Gruber Distinguished Global Justice and Women's Rights Lectures; and 3) the Gruber Global Justice and Women's Rights Fellowships.

### Global Constitutionalism Seminar

Plans proceeded for the FY 2013 Global Constitutionalism Seminar, to be held in September, 2012, at the Peace Palace at The Hague, in coordination with the Carnegie Corporation of New York's Centennial Celebration of Andrew Carnegie's Vision for International Justice.

### Gruber Distinguished Lectures in Global Justice and Women's Rights

Plans proceeded for the FY 2013 Gruber Distinguished Lectures in Global Justice and Women's Rights, to be held in October 2012 and January 2013.

### Gruber Global Justice and Women's Rights Fellowships

#### Post-Graduate Fellowships

The first class of Gruber Fellows in Global Justice and Women's Rights will have completed their fellowship projects as of Fall 2012.

**Scarlet Kim** (Yale Law School '11) spent her fellowship year working with the New York Civil Liberties Union (NYCLU). Kim's fellowship culminated with the release of a widely acclaimed report on solitary confinement that she was instrumental in helping to prepare. The report has been cited in numerous national media outlets, and is serving as a cornerstone to broader advocacy efforts on the harms of solitary confinement.

**Caroline Gross** (Yale Law School '10) spent her fellowship year working with the International Association of Women Judges (IAWJ) in Washington, DC, Haiti, and Tanzania. She focused on improving judicial training and advocacy materials aimed at preventing and redressing "sextortion" (the abuse of power through sexual exploitation) and human trafficking.

The Gruber Committee received 16 applications for the 2012-2013 Gruber Fellowships from across the University, including the School of Nursing, the School of Management, the Divinity School, the School of Forestry and Environmental Studies, and the Law School. The Committee selected five extremely impressive Fellows: **Erin George** (Yale School of Nursing '12); **Amanda Gutierrez** (Yale Law School '12); **Becca Heller** (Yale Law School '10); **Stephanie Keene** (Yale Law School '12); and **Nichole Trumper** (Yale School of Nursing '12).



## **Faculty Fellowships**

### **Women's Faculty Forum (WFF)**

The Gruber Program sponsored the participation of 15 international scholars in a two-day conference entitled "Parity as Practice: The Politics of Equality," held March 30- 31. Thirty-three participants traveled from over a dozen countries as well as from both coasts of the US to participate. Sessions examined gender parity in diverse contexts, including politics, employment, education, and business. The conference produced a new and robust network of gender parity scholars that extends across many countries and has global reach.

### **Yale Global Health Leadership Initiative (GHLI)**

The Gruber Program sponsored international faculty exchange in support of two GHLI initiatives: (i) an interdisciplinary working group addressing health, rights and justice for South Africa's miners and (ii) the GHLI Conference in New Haven.

#### ***Health, Rights and Justice for South Africa's Miners***

In June, the Gruber Program funded the participation of Yale faculty in a convening to develop a project straddling the clinical and epidemiological, as well as the legal and policy aspects of a public health and human rights crisis in the mining industry in Southern Africa. Resources from the Gruber Program were leveraged to gain additional support from the Open Society Initiative for Southern Africa (OSISA) and secured the participation of faculty from the University of Cape Town, the University of the Witwatersrand, and Rhodes University.

#### ***GHLI Conference***

Gruber Faculty Fellowships facilitated the participation of four academics from Ghana, Rwanda, and South Africa in the GHLI Conference, which was held at Yale's Greenberg Conference Center from June 4-8. The purpose of the conference was to share country implementation and policy experiences related to work plans addressing mental health, management capacity building and maternal and child health.

### **Jackson Institute for Global Affairs**

The Jackson Institute hosted as a Gruber Fellow Professor Nicoli Nattrass. An internationally recognized scholar and activist, Nattrass is a professor of economics and director of the AIDS and Society Research Unit at the University of Cape Town. Her research explores the relationship between AIDS, leadership and the role of civil society. Professor Nattrass also engages in action-oriented research at outreach programs in the Western Cape, and played a crucial role in the South African government's decision to adequately address the issue of mother-to-child transmission of HIV. In 2008, Nattrass won the Bill Venter/Altron Literary Award, South Africa's top academic book prize, for "The Moral Economy of AIDS in South Africa." While at Yale, Professor Nattrass taught three courses: Political Economy of AIDS in Africa, Health Inequality and Development, and Gateway to Global Affairs. She continues to mentor Yale students.

## Gruber Science Fellowship Program

The purpose of the Gruber Science Fellowship is to recruit and support the very best graduate students to pursue doctoral studies in the life sciences, cosmology and astrophysics at Yale's Graduate School of Arts and Sciences.



Patricia Gruber stands at the center of the inaugural cohort of Gruber Science Fellows at Yale.

### Inaugural Gruber science fellows:

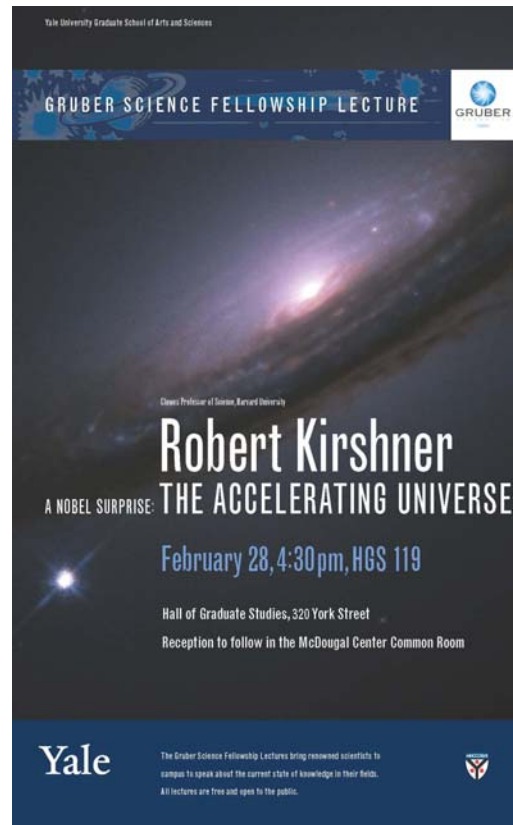
**Brittany Angarola**, Molecular Cell Biology, Genetics, and Development  
**Arthur Argall**, Physiology and Integrative Medical Biology  
**Deborah Ayeni**, Pharmacological Sciences and Molecular Medicine  
**Ashley Bonneau**, Molecular Cell Biology, Genetics, and Development  
**Jacob Brewer**, Molecular Biophysics and Biochemistry  
**Ronit Broekman**, Molecular Cell Biology, Genetics, and Development  
**Nicole Calabro**, Pharmacological Sciences and Molecular Medicine  
**Cali Calarco**, Neuroscience  
**Duncan Campbell**, Astronomy  
**Benjamin Elder**, Physics  
**Sarah Elfenbein**, Computational Biology and Bioinformatics  
**Samuel Endicott**, Molecular Cell Biology, Genetics, and Development  
**Kathren Fink**, Neuroscience  
**Linda Fong**, Biomedical Engineering  
**Brandon Gassaway**, Molecular Cell Biology, Genetics, and Development  
**Kyle Gettler**, Molecular Cell Biology, Genetics, and Development  
**Carol Gianessi**, Neuroscience  
**Tianxia Guan**, Immunology

**Namita Gupta**, Computational Biology and Bioinformatics  
**Hia Shee Hee**, Immunology  
**Laurel Hochstetler**, Molecular Cell Biology, Genetics, and Development  
**Alan Jiao**, Molecular Cell Biology, Genetics, and Development  
**Jason Kasvin-Felton**, Computational Biology and Bioinformatics  
**Peter Kim**, Microbiology  
**Lara Kohler**, Microbiology  
**Kathryn Krueger**, Molecular Cell Biology, Genetics, and Development  
**Holly Lauridsen**, Biomedical Engineering  
**Bryan Leland**, Molecular Cell Biology, Genetics, and Development  
**Aaron Levy**, Neuroscience  
**Daniel Li**, Neuroscience  
**Lynn Liu**, Molecular Biophysics and Biochemistry  
**Natalie Ma**, Molecular Cell Biology, Genetics, and Development  
**Katelynn Mannix**, Molecular Cell Biology, Genetics, and Development  
**Allison Merritt**, Astronomy  
**Valerie Morely**, Ecology and Evolutionary Biology

**Yagmur Muftuoglu**, Pharmacological Sciences and Molecular Medicine  
**Samuel Murakami**, Molecular Cell Biology, Genetics and Development  
**Mitchell Omar**, Neuroscience  
**Joori Park**, Molecular Cell Biology, Genetics, and Development  
**Stephan Sanders**, Molecular Cell Biology, Genetics, and Development  
**Richard Sarro**, Molecular Cell Biology, Genetics, and Development  
**Curtis Schauder**, Molecular Biophysics and Biochemistry  
**Yevgeniy Serebrenik**, Molecular Cell Biology, Genetics, and Development  
**Jenica Shipley**, Molecular Biophysics and Biochemistry  
**Kevin Su**, Physiology and Integrative Medical Biology  
**Carol Suh**, Molecular Cell Biology, Genetics, and Development  
**Nicholas Vincent**, Microbiology  
**Katharine Walter**, Epidemiology and Public Health  
**Emily Wong**, Molecular Biophysics and Biochemistry

### Gruber Science Fellowship Lecture

**Robert Kirshner**, Clowes Professor of Science at Harvard University, delivered the inaugural Gruber Science Fellowship Lecture on February 28, 2012. Professor Kirshner's lecture was titled "**A Nobel Surprise: The Accelerating Universe.**"



### Gruber Science Fellowship Seminar

**David Anderson**, Roger W. Sperry Professor of Biology and HHMI Investigator, Caltech, delivered an Interdepartmental Neuroscience Program seminar on April 12, 2012

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