House of Lords Inquiry on Genomic Medicine

Public-Private Partnership

Revolutionizing Access

6 June 2008

Sharon F. Terry, MA
President & CEO, Genetic Alliance
Executive Director, PXE International



Surveyed Literature Interviewed Researchers Investigated issues with the consumer community www.geneticalliance.org





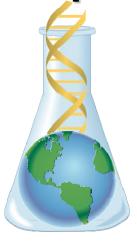
PXE International, Inc.

Participants

- Centralization & Coordination
- IRBs & Study Management
- Informed Consent Process
- Blood & Tissue Bank
- Geno/pheno database
- Coded Patient IDs
- Reporting & Re-contacting
- Longitudinal Follow-up
- Patient Education & Updates

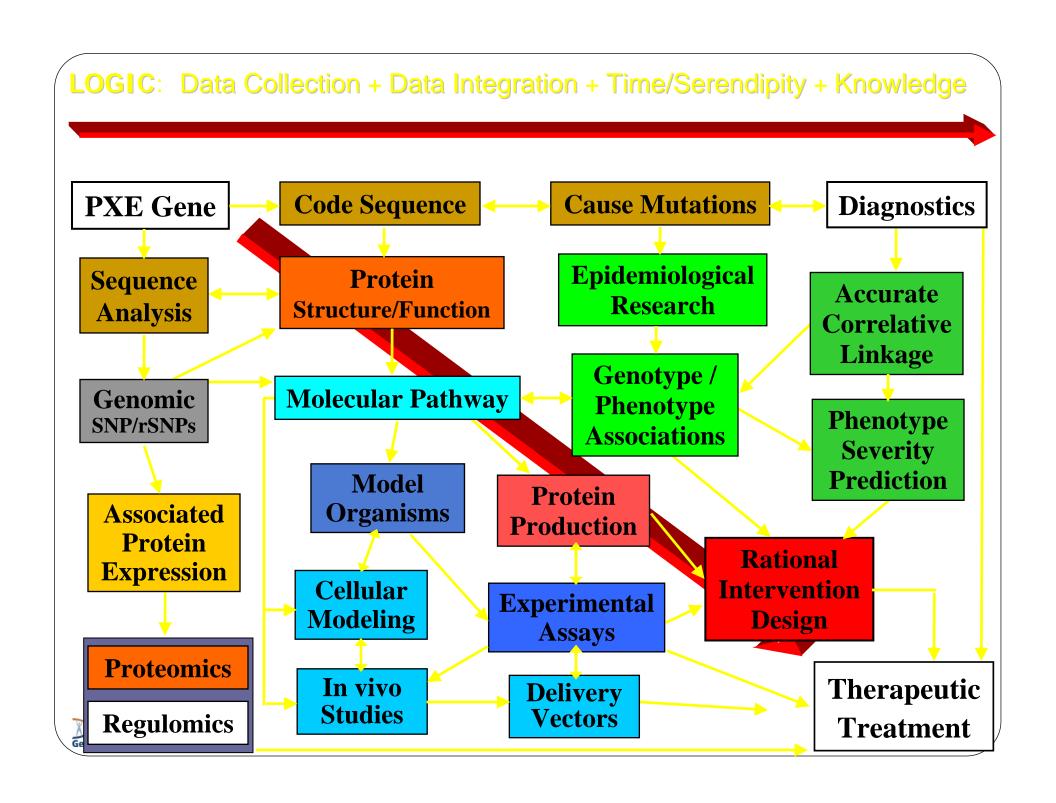


Research Enterprise



- Coordination of Labs
- Shared Info & Tech Trans





nature Oenetics

letter

ations in a gene encoding an ABC transporter cause idoxanthoma elasticum

Le Saux¹, Zsolt Urban¹, Cordula Tschuch¹, Katalin Csiszz², Barbara Barchelli², Daniela Quaglino², Pasquali Ronchetti², E Alichael Pope^{3,4}, Allan Richards, Sharon Terry⁵, Honel Bercovitch⁶, e Paepe & Charles D, Boyd³

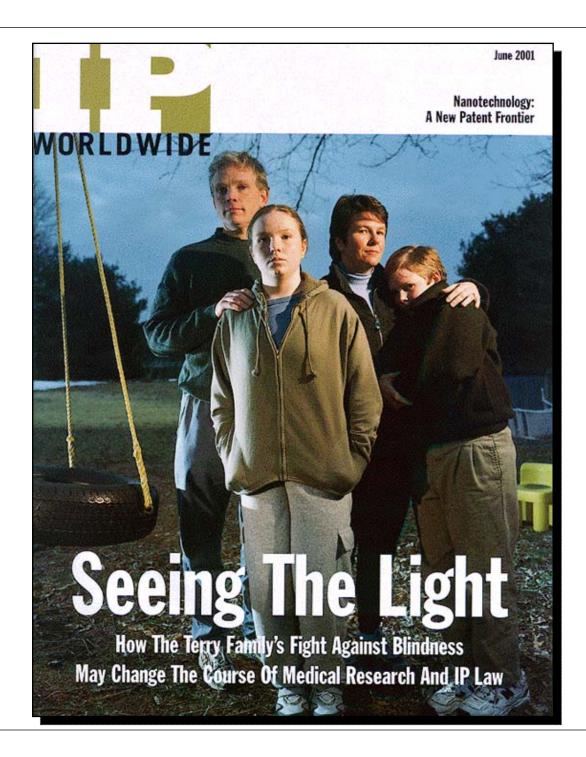
the size of the PXE region to approximately 570 kb. We then

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Nutations in ABCC6 cause pseudoxanthoma elasticum

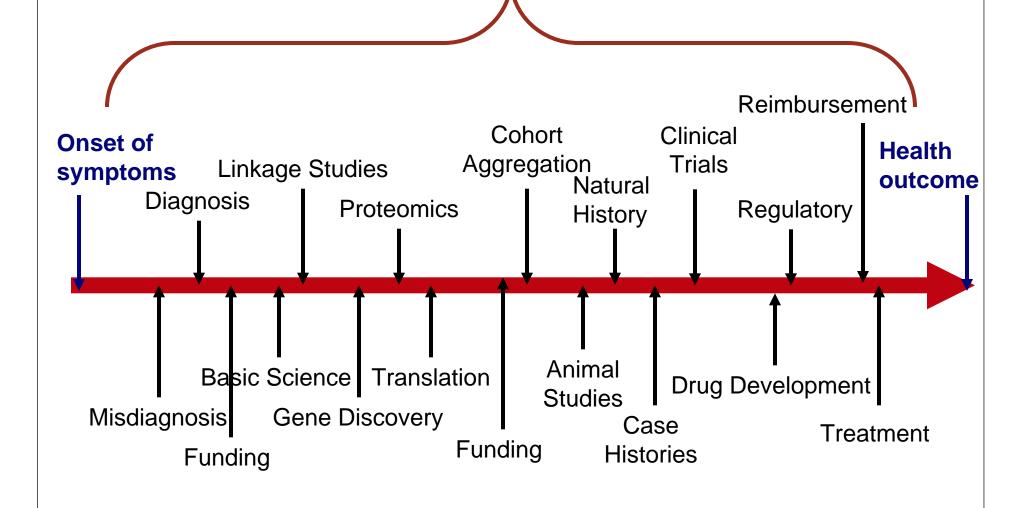
thur A.B. Bergen¹, Astrid S. Plomp^{1,2}, Ellen J. Schuurman¹, Sharon Terry⁵, Jartijn Breuning⁶, Hans inwerse⁶, Jaap Swart¹, Marcel Kool³, Simone van Soest¹, Frank St. ³, Jacoline B. ten Brink¹ & ulus T.V.M. de Jong^{1,4,7}





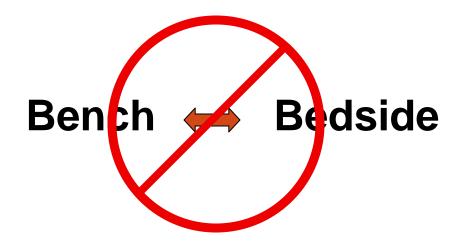


Perspective → **Vision**





What Matters?



Bench \iff Bedside \iff Practice



What Matters? Improved Health Outcome

Prevention Medicines **Diagnostics** Strategy Clinical Trials **Applied** Research & Development Translation Research New Knowledge **Technology** BASIC BIOMEDICAL SEACH BASE

Maturing Patient Advocacy

- 1950s-1960s Medical Models
 - Voluntary Health Agencies
- 1970s Nascent Patient Movement *Missing Services*
 - Self-organized Disease Specific Organizations
- 1980s Maturing Patient Movement IS & IT Technology
 - New Alliances and New Strategies Emerge
- 1990s Powerful Momentum "Patient Power" Websites & Email
 - Institutionalized Advocacy Coalitions
 - Patient Organized Networked Research Organizations
 - Effecting Broad Change of Public Policy
- 2000s Successful Models "Research Advocacy" BioBanks
 - Active Engagement in the Research Enterprise
 - Breaking Conventional Boundaries of the Medical Model
 - Demand for Quality, Services, Choice, & Personalized Delivery
 - Patient Rights Public Policy Changing the Status-Quo
- 2010s Information Sharing in the Commons Translation & Delivery!!!

Advocates in the Information Age:

Business models based on new economic constructs

Industrial Age (old)

Control means of production

Based on scarcity

Hierarchical / Command & Control

Linear / Sequential

Win / Lose

Material

Information Age (new)

Open means of production

Based on abundance

Network / Collaboration

Organic

Win / Win

Information



Disease Organization Gears





State of the Art Today

Lack of community

Lack of cooperation

Privacy fears

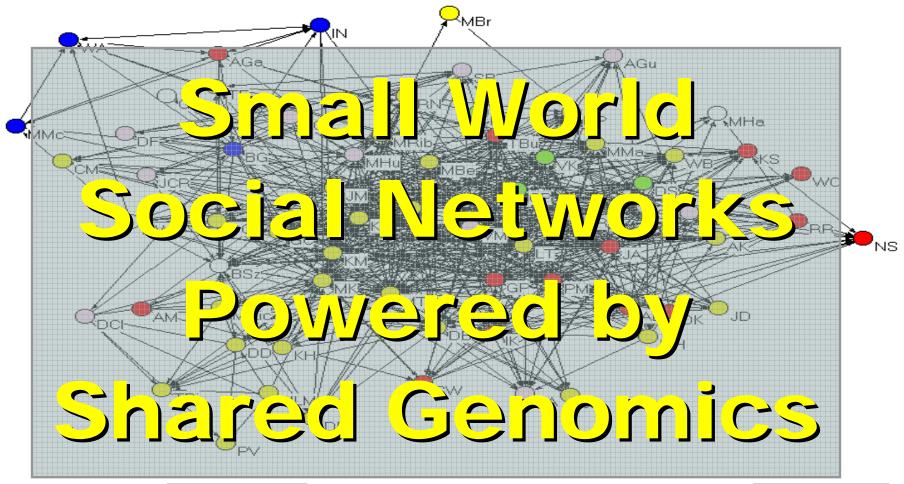
Substandard information

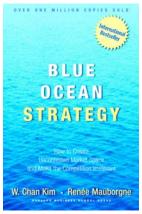


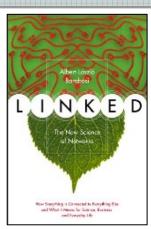


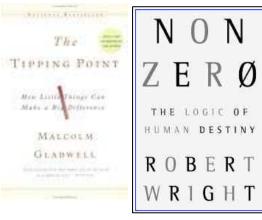
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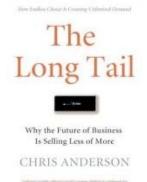


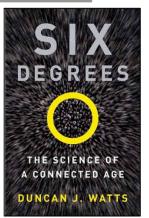












Disruptive Innovation

Affinity Groups

Community

Information



Samples

Clinical Data

Longitudinal



Unlimited Phase IV and beyond



Affinity Groups

Community

Information













Cohorts

Samples

Clinical Data | Longitudinal









Diagnostic and Drug Discovery

Unlimited Phase IV and beyond

Advocacy organizations maintain adverse drug reaction registries



BILL& MELINDA GATES foundation

Bringing innovations in health and learning to the global community













Policy Issues



- Innovation Access
- FDA Regulations
- CLIA Oversight
- Reimbursement
- Biomarker Funding
- Biobanking
- Healthcare Reform
- Adaptive Trials
- IP Rights
- Combinations & Hybrid products
- Info Medicine

