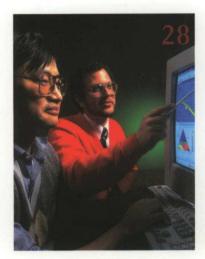
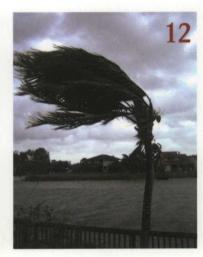
# ACADEMIA No. 2 (22) 2009 The Magazine of the Polish Academy of Sciences







#### Focus on

# **Machine Learning & Biology**

J. Koronacki, J. Komorowski
With today's technologies,
the human genome can be
sequenced in a week. We have
entered an age of the life sciences

#### Focus on

### **Warmer or Cooler?**

L. Marks

Until recently, the climate seemed stable. Research now shows cyclical changes to have been occurring for millions of years

# **Briefly Speaking**

# **Leaving Tracks Uncovered**

J. Tokarska-Bakir, A. Zawadzka
The strength of social structure
is that everyone – including
those discriminated – recognize
it as the only possible one

Editorial	3
Focus on —	
Linguistics  A Corpus of Polish, Rafał L. Górski, Adam Przepiórkowski, Barbara Lewandowska-Tomaszczyk, Marek Łaziński	4
Microbial Biochemistry Perfect Inheritance, Michał Dmowski	8
Paleogeology and Climate Warmer or Cooler?, Leszek Marks	12
Science and the Economy Science, Stupid!, Jerzy Duszyński	16
Art History For the King's Glory, Stanisław Mossakowski	20
Futures Studies Forecasting the Future, Tadeusz Baczko	24
Bioinformatics Machine Learning & Biology, Jacek Koronacki, Jan Komorowski	28
Research in Progress —	
Bioinformatics Genes in 3D. Teresa Szczenińska	32

Paleobiology	34
Dawn of the Dinosaurs, Tomasz Sulej, Grzegorz Niedźwiedzki	
Literary Theory Three Types of Narrative, Jacek Leociak	36
Astronomy	38
Distant Systems, Krzysztof Ziołkowski	
Agricultural Sciences The Landscape's Contribution, Janusz Jankowiak	40
Briefly Speaking —————	
Leaving Tracks Uncovered	42
Highlights —	
Insight ————	
From Bacteria to Lucy  Marcin Machalski	48
Short Circuit ————————————————————————————————————	
Ten Commandments Włodzimierz Zawadzki	50
Gallery —	- 51

Cover photo by: Phototake/BE&W Gallery: Laboratorio de Estudios Cristalográficos (CSIC-Universidad de Granada) Page 2 photos by: S. Bauer, ARS Image Gallery; F. Green, www.sxc.hu; P. Dołowy