

**Green Paper on the European Research Area:
new perspectives
(adopted by the EC on 4 April, 2007)**

- realising a single labour market for researchers
- developing world-class research infrastructures
- strengthening research institutions
- sharing knowledge
- optimising research programmes and priorities
- opening to the world through international cooperation in science & technology

The vision of ERA (2020 ?)

1. An adequate flow of competent researchers

transnational mobility : encouraging return of scientists who qualify for leadership positions (encouraging their academic promotions at our institutes - "habilitation", professorial status)

bilateral agreements of PAS with foreign scientific institutions fostering exchange of scientists

2. World - class research infrastructures

European Institute of Health

3. Excellent research institutions able to cooperate and compete

International Institute for Molecular and Cellular Biology (UNESCO)

European Regional Centre for Ecohydrology (UNESCO)

Wykształceni Polacy emigrują z kraju

Sylwia Szparkowska 12-05-2009

Raport Komisji Europejskiej: z Polski wyjeżdżają ludzie młodzi i lepiej wyedukowani niż ogół społeczeństwa. – To drenaż mózgów – przestrzegają unijni eksperci.

Na początku 2008 roku 2,3 miliona Polaków przebywało za granicą dłużej niż dwa miesiące – wynika z najnowszego raportu Komisji Europejskiej dotyczącego migracji w Europie.

Wyjeżdżają głównie ludzie bardzo młodzi (połowa ma mniej niż 29 lat), przede wszystkim mężczyźni, najczęściej z wschodniej i południowej Polski. Zaskakuje wysoki odsetek osób z wyższym wykształceniem wśród emigrantów zarobkowych. Aż 25,7 proc. z nich ma wyższe wykształcenie, w całej populacji Polski zaś – 14,7 proc. „Wskazuje to na pojawienie się zjawiska drenażu mózgów” – ocenia raport Komisji.

Promotion of young scientists

Postgraduate programs leading to doctoral degree carried out at PAS institutes (funding? EU - funding?)

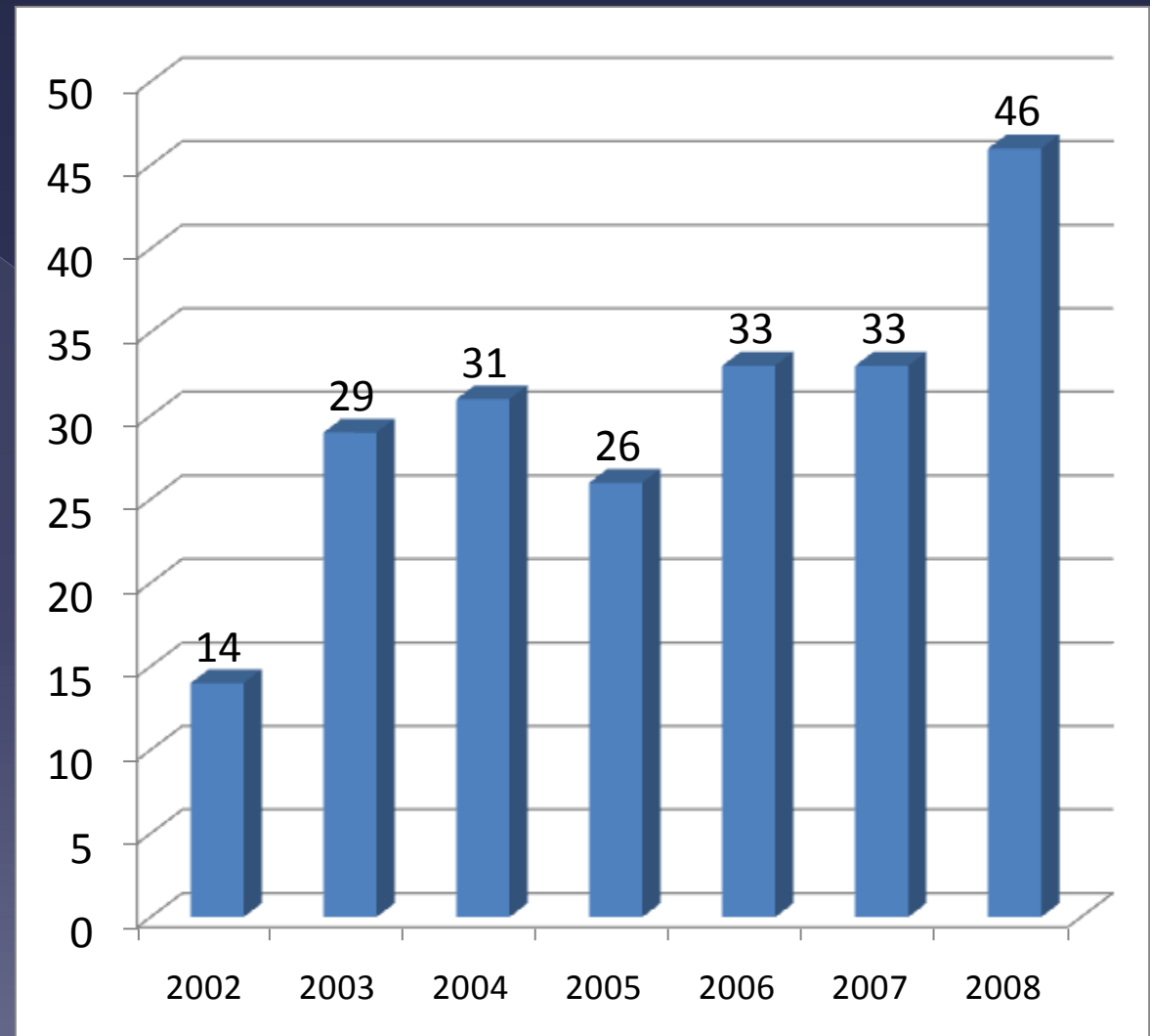
NEW: ethics conferences organized by PAS award evaluation points needed for specialty training in medicine

**SKN przy Instytucie
Immunologii i Terapii
Doświadczalnej PAN
im. Ludwika Hirszfelda
we Wrocławiu**

**Students' association
at the Institute**

**Prace magisterskie
studentów SKN przy
IITD PAN zakończone
obroną**

**work leading to a
master's thesis**



US medical institute invests in undergraduates

The Howard Hughes Medical Institute (HHMI) is offering up to \$85 million in grants to further undergraduate science education at the United States' top research universities.

The HHMI, which is the largest private funder of biomedical research in the United States, last year dedicated \$60 million for science teaching at liberal arts colleges. Now, the institute is awarding individual grants of up to \$2.2 million over 4 years for proposals from 197 of the nation's most research-intensive institutions.

Schools must register their interest by 14 May, but have until 1 October to apply for the grants, which should focus on student research, faculty development, curriculum development or community outreach.

The ageing of the research labour force

Under-representation of women in science

new regulations: institute's directors and committee chairs can be elected for two consecutive terms only (70% of all committee chairs are newly elected ones)

more women as committee chairs

Fellowships awarded by the President of PAS

2007: 63% women, 37% men

overall: 52% women, 48% men

In many member states public research institutes have little autonomy over hiring, outdated national legislation & practices that hinder or prevent competition-based recruitment

PAS institutes have autonomy over hiring, will also acquire ownership of their property (building, land, etc).

Autonomy over IPR, licensing, etc

Problem: salary levels

Opportunity: EU- derived grants, cooperation with industry (funds to cover innovation?)

Integration of PAS scientific committees

In order to integrate scientific communities around interdisciplinary scientific problems and, in a longer perspective, to implement change in structure of PAN committees (presently 110) the Polish Academy of Sciences established interdivisional expert teams (8) and integration expert teams (31) that operate within the frame of PAN divisions.

Equal opportunity in employment & promotions

**Establishing comparable standards of
scientometrics used in staff appointment &
promotions**

Ethics in science

2007: The advancement in science and the dilemma of dual use - why we can't afford to fail

2008: Healthcare, the market, and the public's needs and interests

The past, present, and future of the Impact Factor and Other Tools of Scientometrics

2009 : Public trust in science and industry-supported research and education: benefits and pitfalls

2010 : International seminar on biosecurity (with the US National Academy of Sciences)

The commission for ethics in science (planned): code of conduct in research, monitoring of good manners in science, evaluation of individual cases of alleged scientific misconduct



from:

Dr. Hider, M. H. AL-Shirifi,
AL-Mustansyriah University,
P.O. Box 14022, College of Science,
Dept. of Biology, Microbiology Branch,
Baghdad, IRAQ.



To:

Prof. Dr. Weber-Dabrowska-B,
Laboratory of Bacteriophages,
Institute of Immunology & Experimental
Therapy, Polish Academy of Sciences,
Wroclaw - Poland. ولينا



secret@immuno.iitd.pan.wrac.pl

Health research within ERA needs to be upgraded to new dimension

More transparency needed (conflicts of interest, registration of clinical trials)

Further development of ERI engaged in health research

Add new RI

Now displaying records 1 to 1 of 1.

Print checked RI

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1

ID	<input type="checkbox"/>	Name of the RI	Main scientific domain	Category	Country	Last update
45	<input type="checkbox"/>	Isochronous Cyclotron AIC-144	Life Sciences	Cyclotrons for medical applications	Poland	01/01/2007

Add new RI











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1

ID	<input type="checkbox"/> Name of the RI	Main scientific domain	Category	Country	Last update	
12	<input type="checkbox"/> Paracelsus Private Medical University, Salzburg	Life Sciences	Clinical research centers	Austria	01/01/2007	
67	<input type="checkbox"/> Biobank of the Medical University of Graz	Life Sciences	Biobanks	Austria	01/01/2007	
144	<input type="checkbox"/> Dept. of Obstetrics and Gynecology, Med. University of Innsbruck	Life Sciences	Clinical research centers	Austria	01/01/2007	
167	<input type="checkbox"/> SCESMO. The acronym SCESMO stands for Single CELL Single MOleculE anlytics and diagnostics.	Life Sciences	Mass spectroscopy and other analytical facilities for life sciences	Austria	01/01/2007	
241	<input type="checkbox"/> Vienna Drosophila RNAi Stock Centre	Life Sciences	Collections of biological resources	Austria	01/01/2007	
441	<input type="checkbox"/> Lebensmittelversuchsanstalt/Food Testing Institute	Life Sciences	Nutrition & Food RI	Austria	01/01/2007	
450	<input type="checkbox"/> IAM Dept. Biotechnology	Life Sciences	Other Life Sciences RI	Austria	01/01/2007	
466	<input type="checkbox"/> Austrian Academy of Sciences Institute of Biophysics and X-Ray Structure Research Schmiedlstrasse 6, 8042 Graz	Life Sciences	Structural biology facilities	Austria	01/01/2007	
479	<input type="checkbox"/> PICME - Platform for integrated clone manangement	Life Sciences	Collections of biological resources	Austria	01/01/2007	
782	<input type="checkbox"/> International Institute for Applied Systems Analysis (IIASA)	Life Sciences	Other Energy RI	Austria	01/01/2007	

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> Poland > Engineering > > keyword : %

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1

ID	<input type="checkbox"/> Name of the RI	Main scientific domain	Category	Country	Last update	
142	<input type="checkbox"/> Institute of High Pressure Physics	Material Sciences, Chemistry and Nanotechnologies	High pressure laboratories	Poland	01/01/2007	<input type="checkbox"/>
283	<input type="checkbox"/> Heavy Ion Laboratory (HIL)	Physics and Astronomy	Nuclear Physics accelerators & detectors	Poland	01/01/2007	<input type="checkbox"/>
14	<input type="checkbox"/> Dual Beam Ion Implanter	Material Sciences, Chemistry and Nanotechnologies	Surface science RI	Poland	01/01/2007	<input type="checkbox"/>
774	<input type="checkbox"/> Department of Plant Diversity Conservation and Evaluation	Environmental, Marine and Earth Sciences	Seed banks	Poland	01/01/2007	<input type="checkbox"/>
254	<input type="checkbox"/> August Chelkowski Institute of Physics	Physics and Astronomy	Other Physics and Astronomy RI	Poland	01/01/2007	<input type="checkbox"/>

**There is no major institutional driving force
behind medical research in Europe
Resources split between diverse funding
agencies
Wasteful duplication of research funding
Response: creation of European Institutes of
Health (NIH)
(to follow the EIT initiative)**

Declaration of Helsinki
(World Medical Association, Oct 2008)

19. Every clinical trial must be registered in a publicly accessible database before recruitment of the first subject.

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A service of the U.S. National Institutes of Health

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ClinicalTrials.gov is a registry of federally and privately supported clinical trials conducted in the United States and around the world. ClinicalTrials.gov gives you information about a trial's purpose, who may participate, locations, and phone numbers for more details. This information should be used in conjunction with advice from health care professionals. [Read more...](#)

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Effective Knowledge Sharing

Intellectual Property Rights

two seminars (on IPR and technology transfer, licensing etc)

**IPR Code of Practice for all PAS institutions
(accepted or adopted)**

**Patent Plus Program from the Ministry of
Science and Education**

Open access

existing journals, newly created journals

Source of financing?

Lack of standards for recognising academic & professional qualifications from other countries

PAS encourages Polish scientists working abroad to acquire higher academic levels („habilitation”, professorial status) at its institutions

New ERA initiatives in 2008

**to enhance the overall governance of
ERA (the Ljubljana Process)**

Knowledge sharing - Joint Programming

High level group (nominees From Member States)

Summer 2009: recommended areas

December 2009: areas identified

The PAS endorses ERA programs and initiatives. In fact, PAS has already undertaken several initiatives highlighted in the ERA. In addition, PAS suggests several lines of action which could help achieve the goals of the ERA at the national and European levels.





Public Trust in Science
and
the Impact of Climate Change
on Health and Policy
Robert Steinbrink
Senior Lecturer