


Nanotechnology for Medicine in Poland

Jarosław Piekarski, Ph. D.
*Nanosciences, nanotechnologies,
materials & new production technologies*

National Contact Point
for Research Programmes of the EU





The screenshot shows the 'NAUKA POLSKA' website interface. The top navigation bar includes links for 'strona główna', 'mapa strony', and 'kontakt'. Below this is a secondary menu with 'Bazy danych', 'Informator Nauki Polskiej', 'Ankieta jednostki', 'Badanie CDH', 'Biotechnologia' (highlighted), 'Usługi', and 'Zobacz również'. The main content area is titled 'BAZY DANYCH' and features several sections: 'Projekty badawcze MNiSW' with a satellite image, 'Prace badawcze' with a microscope image, 'Ludzie nauki' with a person in a graduation cap, and 'Konferencje, wystawy, targi' with a crowd image. Overlaid on the right side of the screenshot are three statistics in a light blue box: 'Research projects since 1995: ~37 000', 'Nano-related projects: ~370', and 'Nano for medicine: ~10'. The footer contains the URL 'www.kpk.gov.pl', a copyright notice for OPI, and a molecular structure graphic.

Research projects since 1995: ~37 000

Nano-related projects: ~370

Nano for medicine: ~10

www.kpk.gov.pl

Evaluated calls: **2007** and **2008**

4 topics for medical applications

Participation of **Polish teams** in 2nd stage:

2007

Nano-related projects:	16 (7 supported)
med-related projects:	none

2008

Nano-related projects:	8 (3 supported)
med-related projects:	1 (0 supported)



NMP-2007-2.3-1: Highly porous bioactive scaffolds controlling angiogenesis ...

NAS partners: 7

NMP-2007-4.0-4: Nt-based systems for in-vivo diagnosis and therapy

NAS partners: 4

NMP-2008-2.3-1: Advanced implants and bioactive materials for critical organs

none NAS partners

NMP-2008-4.0-1: Nt+based systems for diabetes, musculo-skeletal or inflammatory diseases

NAS partners: 3

NMP-2009-2.3-1: Biomimetic gels and polymers for tissue repair

none NAS partners

NMP-2009-4.0-3: Nt+based systems for molecular diagnostics and imaging

NAS partners: 3



*2nd Polish Conference on Nanotechnology NANO 2008, Cracow
~80 oral presentations, ~13 on MED. And BIO*

*3rd Polish Conference on Nanotechnology NANO 2009, Warsaw
~65 oral presentations, ~13 on MED. And BIO*

About 15% of Polish Nano Community engaged in
Med- and Bio- related research

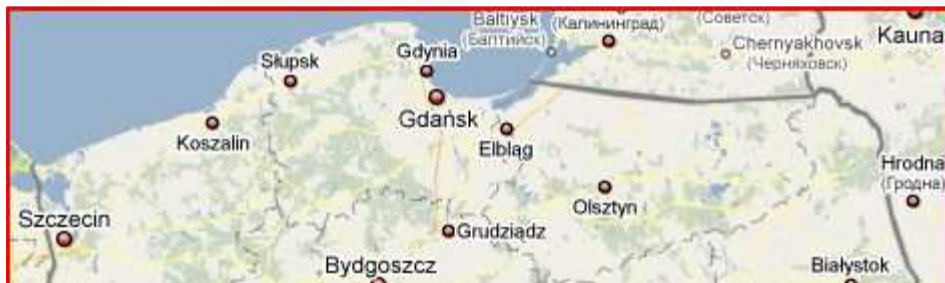


Polish Network for Nanomedicine *NanoMed.pl*

ZUT

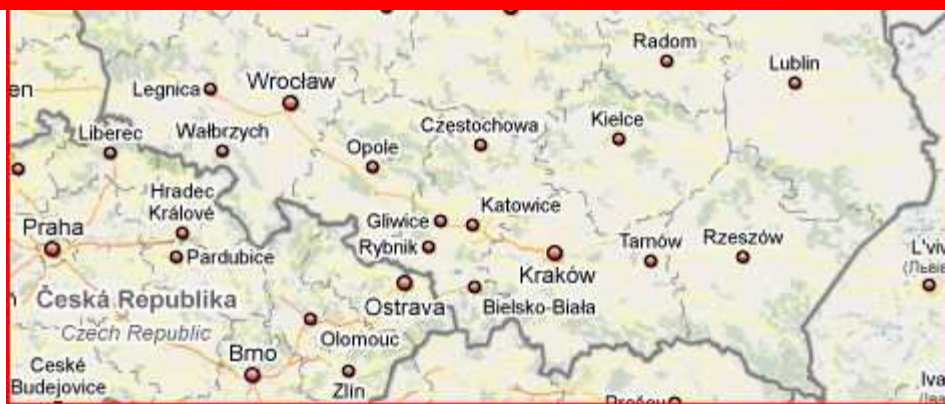
UAM
IFM
UMP

PWr
AMWr
INTiBS



UMW
PW
IFPAN
UW
UNIPRESS

Access to *ERANET* EuroNanoMed



IFJ
IKFP
UJ



Communication of Minister for Science and Higher Education 30.10.2008

Research area: **HEALTH**

nanofarmacology, targeted drug delivery

Research area: **Advanced technologies for Economy**

nanotechnologies in material design
nanoelectronic and nanophotonics
(including biomedical applications)



Structural Funds, selected project

IFPAN, Warsaw	Semiconductor nanostructures in BIO and MED.	73M PLN
EIT+, Wrocław	Nt in modern materials	108M PLN
ITE, Warsaw	Micr- and Nano-systems in Ch and BioMed	20M PLN
PW, Warsaw	New metallic materials with nanostructure	36M PLN
AGH, Cracow	Academic Center for Materials and Nanotechnology	90M PLN
IPJ, Warsaw	Detectors and accelerators of radiation (in security and medicine)	80M PLN





Nanosilver for antibacterial applications



NanoCare+ (dental filling)



Nanocomponents for pharmacy



Nanocomponents for pharmacy



Thank you for your attention

Jarosław Piekarskijaroslaw.piekarski@kpk.gov.pl

***National Contact Point
for Research Programmes EU
ul. Żwirki i Wigury 81
02-091 Warszawa,
tel. 022 828 74 83 w. 344***

