NATIONAL VETERINARY RESEARCH INSTITUTE

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Gdynia
Gdańsk
Elbląg
Olsztyn
54°
Szczecin
Bydgoszcz
Toruń
Białystok
BELARUS
Gorzów Wielkopolski
Berlin
Poznań
GERMANY
Warsaw (Warszawa)
POLAND
Łódź
UKRAINE
Radom
Lublin
Wrocław
Częstochowa
Kielce
Walbrzych
Pulawy
Prague (Praha)
Zabrze
Sosnowiec
Katowice
Kraków
50°
CZECH REPUBLIC
SLOVAKIA
0 50 100 mi
0 50 100 km
16°
20°
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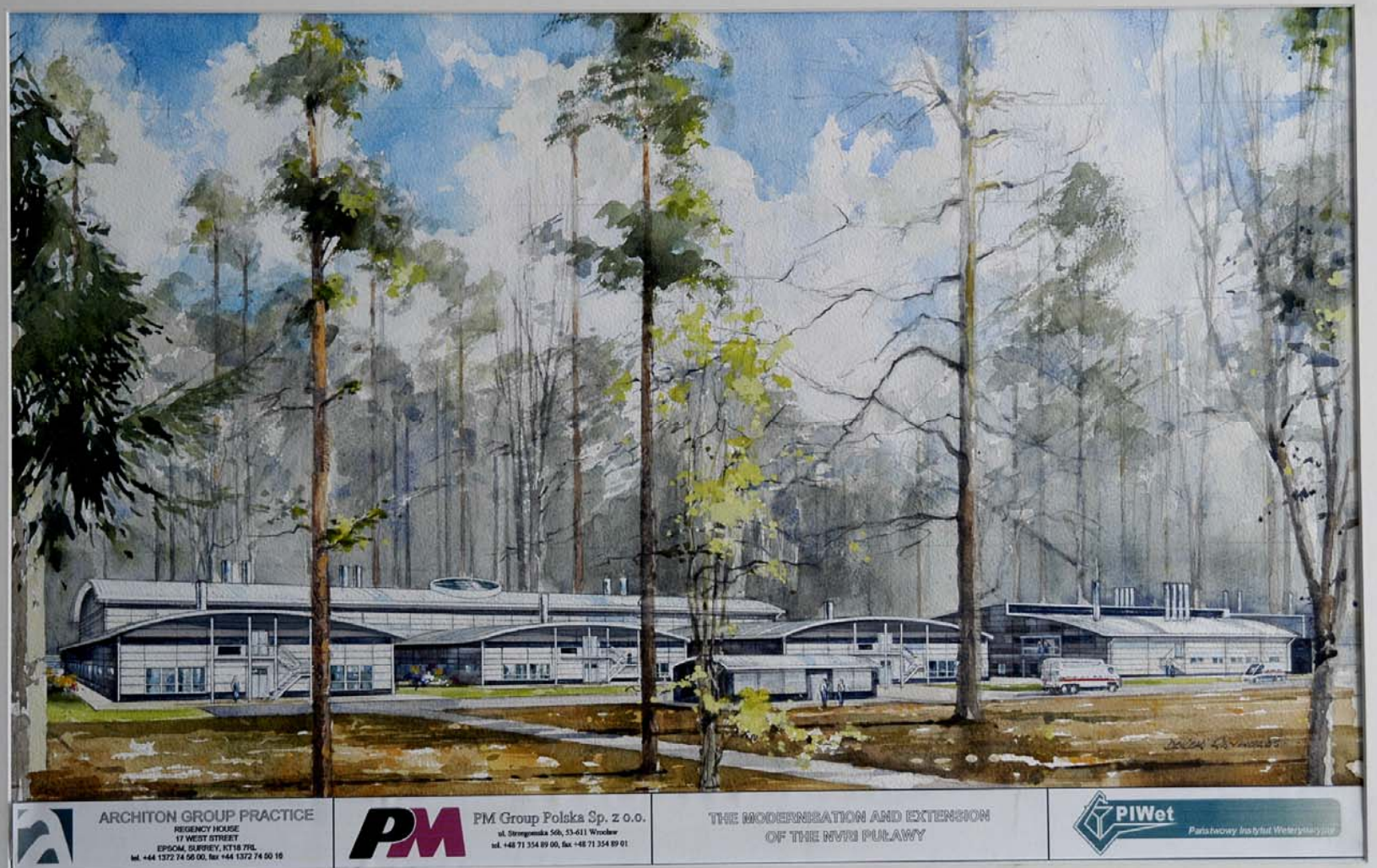
National Veterinary Research Institute

17.01.2005

Construction of the new laboratories started



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THE MODERNISATION AND EXTENSION
OF THE NVRI PUŁAWY

PIWet
Państwowy Instytut Weterynaryjny

Research staff

The Institute employs 350 persons

- 33 researchers with Sc.D. and Ph.D.
- 40 researchers with Ph.D
- 49 researchers with D.V.M. or M.Sc
- 102 technicians

PIWet

National reference laboratories (NRL)

A network of 14 laboratories within different departments of NVRI appointed with the Act of Ministry of Agriculture and Rural Development of October 21, 2004
for the reference activities

NRL for VTEC

Located at Department of Hygiene of Food of Animal Origin of NVRI

VTEC NRL

Staff:

- 2 researchers
- 1 technician

VTEC – *main activities*

- Development of molecular methods (PCR) for identification and characterisation of VTEC
- Application of PCR and RFLP methods for differentiation of VTEC strains
- Identification of VTEC in bovine carcasses

Current VTEC programme

- Identifiaction of VTEC in bovine carcases
- Method – PCR
- Results:
  - 2005: 442 samples tested – 26 (5.9%) positive
  - 2006: 426 samplestested – 2 (0.5%) positive

Selected publications

- Tatarczak M., Wieczorek K., Posse B., Osek J. Identification of putative adhesin genes in shigatoxigenic *Escherichia coli* isolated from different sources. Veterinary Microbiology 2005; 110:77-85

- Wieczorek K., Osek J. Development of a PCR internal amplification control for the detection of Shiga toxin-producing *Escherichia coli*. Bulletin of the Veterinary Institute in Pulawy 2004; 48:379-401

- Osek J. Phenotypic and genotypic characterization of *Escherichia coli* O157 isolated from humans, cattle and pigs. Veterinarni Medicina (Veterinary Medicine - Czech) 2004; 49:317-326

- Osek J. Development of a multiplex PCR approach for the identification of Shiga toxin-producing *Escherichia coli* strains and their major virulence factor genes. Journal of Applied Microbiology 2003; 95:1217-1225

- Osek J., Weiner M., Hartland E.L. Prevalence of the *lpfO113* gene cluster among *Escherichia coli* O157 isolates from different sources. Veterinary Microbiology 2003; 96:259-266

- Sadowska B., Osek J., Bonar A., Więckowska-Szakiel M., Rudnicka W., Różalska B. Phenotypic and molecular characteristics of typical and atypical *Escherichia coli* O157, clinical and food isolates. Acta Microbiologica Polonica 2003; 52:149-158

- Osek J., Gallien P. Molecular analysis of *Escherichia coli* O157 strains isolated from cattle and pigs by the use of PCR and pulsed-field gel electrophoresis methods. Veterinarni Medicina (Veterinary Medicine - Czech) 2002; 47:149-158

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