

# Research Institute of Hygiene, Toxicology and Occupational Pathology (RIHTOP)



RIHTOP Director - Boris N. Filatov, M.D., Ph.D

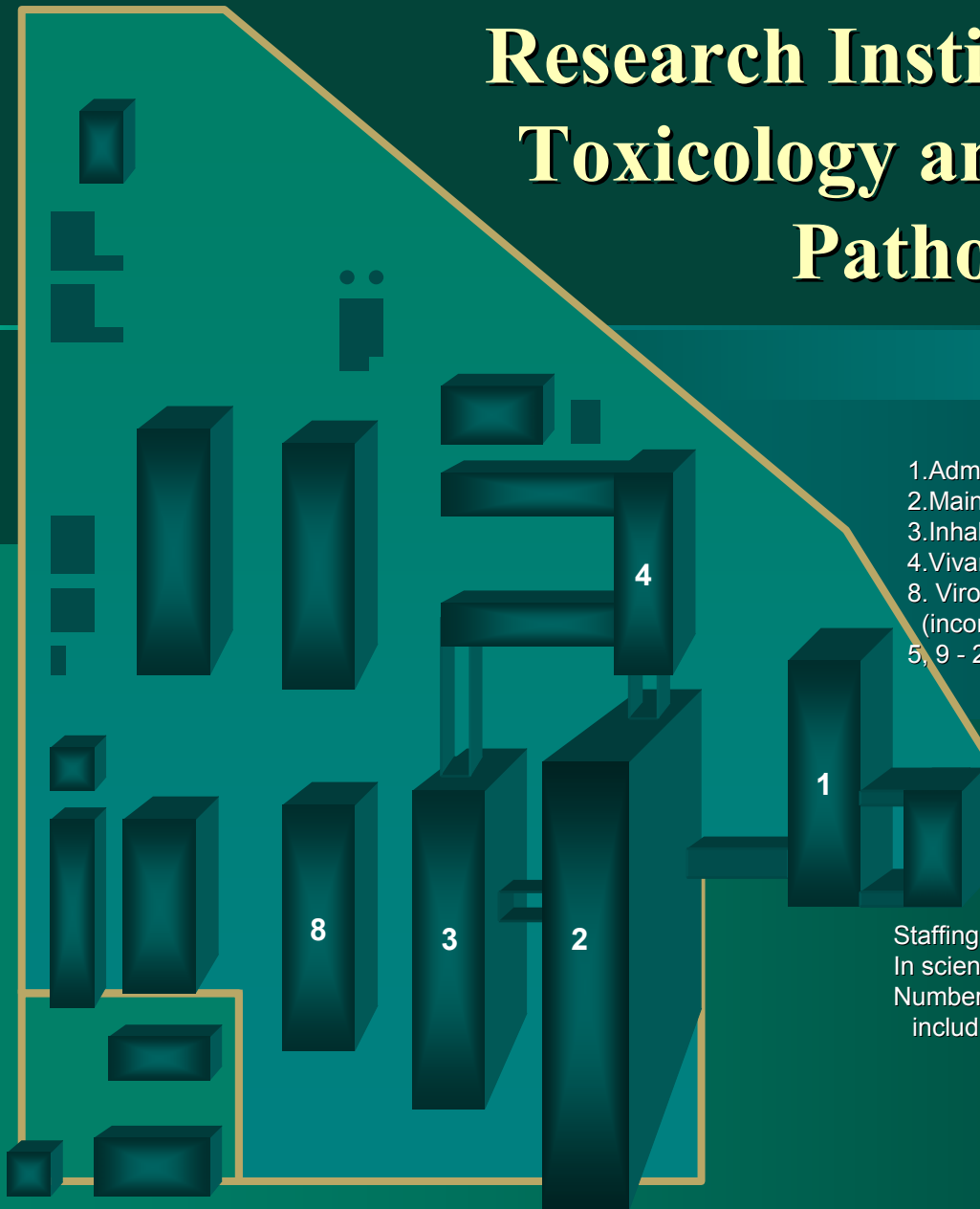
# Research Institute of Hygiene, Toxicology and Occupational Pathology (RIHTOP)

RIHTOP was founded in 1971 as a scientific center for developing of hygienic standards of chemical safety for chemical weapons productions and for scientific supporting of medical and sanitary provision of these productions.

Since 1984 RIHTOP have been participating in development of the scientific groundwork for medical responding in the case of chemical mass exposures which are the results of industrial accidents or terrorist attacks.

The participating in the Program of Chemical Weapons Destruction in Russia became the main RIHTOP activity since 1988.

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Total RIHTOP area - 10.4 hectare, including:

- 1. Administrative building - 5400 m<sup>2</sup>
- 2. Main laboratory building - 15000 m<sup>2</sup>
- 3. Inhalation studies building - 4400 m<sup>2</sup>
- 4. Vivarium - 8.900 m<sup>2</sup>
- 8. Virologic building (incompleted construction) - 8.900 m<sup>2</sup>
- 5, 9 - 24. Supporting services

Staffing level – 297 persons  
In scientific departments - 139 persons  
Number of scientists – 57 persons  
including:  
- doctors of philosophy - 6,  
- doctors of science - 19.

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## Organizational Structure of the Research Section

Organization and Methodic Divisions	Scientific Research Divisions	Research and Service Divisions
Research Process Organization Department	Laboratory of Industrial Toxicology	Vicarium
International Projects Department	Laboratory of Ecological Toxicology	Entity of Inhalation Studies
	Laboratory of Experimental Therapy and Remote Effects	Standardization and Metrology Department
	Laboratory of Pathomorphology	
	Laboratory of Immunology	
	Laboratory of Information Technologies	
	Laboratory of Hygiene	
	Department of Chemistry	
	Clinical Department	

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## Unique RIHTOP Capabilities and Services

- Toxicological testing of highly toxic chemical substances, including gases.
- Toxicological testing of drugs.
- Development of methods for chemical microconcentrations analysis (including CWA) in various medias.
- Development of safety standards for chemical s in various medias.
- Development of computer-aided diagnostic software.
- Development of means and ways for prophylaxis and treatment of acute injuries and chronic intoxications.

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## International Activities

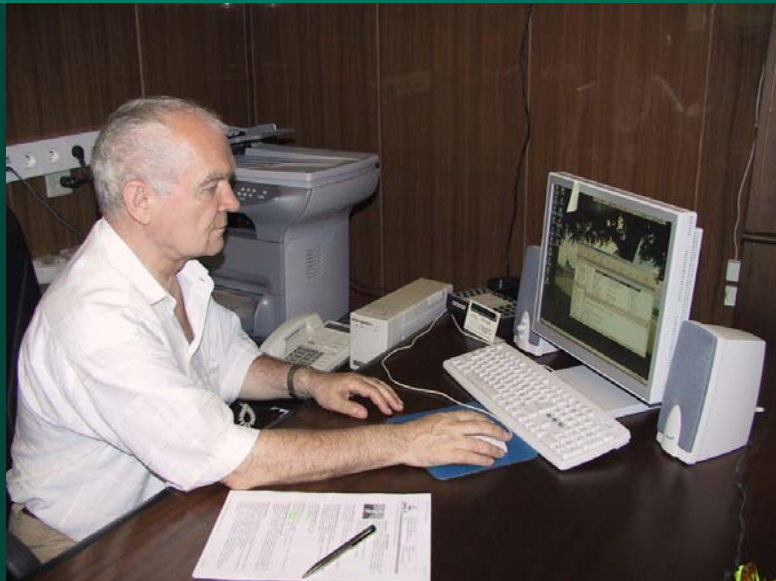
- **1995-1997 - IPP/CRDF Project on Population Risk Assessment from Chemical Releases of Stationary Industrial Facilities in Volgograd (in the framework of Gohr-Chernomyrdin Program) (collaborator - Harvard University, funding through the International Development Agency).**
- **1998 – 1999 - Project on Computer Diagnostics (collaborator - LLNL,USA, funding in the frame of IPP/CRDF program).**
- **Since 2002 – participation in Arctic Group Project on reduction of contamination gravity with persistent organic contaminants in Arctic.**
- **2002 – 2004 ISTC projects.**
  - **Differential Diagnosing of Acute Poisoning Cases with Organic Phosphate Substances (collaborator LLNL).**
  - **Development of Acute Exposure Guideline Levels for Hazardous Substances (AEGL) (collaborator EPA USA).**
  - **Pharmacological Correction of Male Reproductive Function Disorders (collaborator Washington University).**

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## Partnership Opportunities

- Development of methods for chemical microconcentrations analysis (including CWA) in various medias.
- Toxicological testing of highly toxic chemical substances, including gases.
- Toxicological testing of drugs.
- Development of expert systems for syndromal diagnostic of acute chemical poisonings
- Development of computer-aided decision-making support system for emergencies.
- Development of means and ways of prophylaxis and treatment of ricin acute poisonings.
- Estimation of diagnosing significance of human blood ChE molecular forms as biomarkers of organophosphorous compounds exposure.

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