

Conclusion:

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1. On the basis of theoretical thermodynamic calculations we developed new universal biotechnologies for purification of industrial wastewater and recycling of solid organic wastes.

2. The theoretical method allows calculating and choosing the most effective method of detoxification of a wide spectrum of xenobiotics.

3. Mentioned technologies are typical. Therefore they can be duplicated and widely applied for purification of wastewaters and recycling organic waste.

4. Industrial implementation of biotechnologies will allow prevent polluting environment with such xenobiotics as toxic metals, radionuclides, synthetic and natural organic wastes.

5. The application of our biotechnologies allow to getting of commercially valuable products:

- ecologically pure water,
- concentrate of metals,
- CH₄ and dry organic fuel
- bioremediated land.

Thank you for your attention!