

**Table S1.** The chemical composition of thermal waters of the studied hot spring in the Stolbovskie springs. Extracted from [20].

<b>Components</b>	<b>Concentration</b>
Dissolved gases	(mol %)
<b>CO<sub>2</sub></b>	<b>29.1</b>
<b>N<sub>2</sub></b>	<b>56.0</b>
<b>O<sub>2</sub></b>	<b>8.24</b>
<b>CH<sub>4</sub></b>	<b>5.42</b>
Elements and ions	(mg/L)
<b>SiO<sub>2</sub></b>	<b>169</b>
<b>Na<sup>+</sup></b>	<b>684</b>
<b>K<sup>+</sup></b>	<b>46</b>
<b>Ca<sup>+</sup></b>	<b>112</b>
<b>Mg<sup>2+</sup></b>	<b>10</b>
<b>F<sup>-</sup></b>	<b>0.91</b>
<b>Cl<sup>-</sup></b>	<b>1023</b>
<b>SO<sub>4</sub><sup>2-</sup></b>	<b>431</b>
<b>HCO<sub>3</sub><sup>-</sup></b>	<b>240</b>
<b>B</b>	<b>3.0</b>
<b>Fe</b>	<b>0.03</b>
<b>Al</b>	<b>0.03</b>
	( $\mu$ g/L)
<b>Sr</b>	<b>1067</b>
<b>Ba</b>	<b>88</b>
<b>Rb</b>	<b>131</b>
<b>Li</b>	<b>368</b>
<b>Cs</b>	<b>45</b>