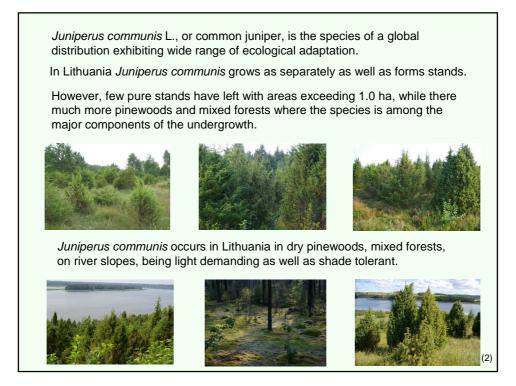


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VARIATION OF α-PINENE AMOUNT IN ESSENTIAL OILS OF *JUNIPERUS COMMUNIS* L. GROWING WILD IN LITHUANIA

Kristina Ložienė





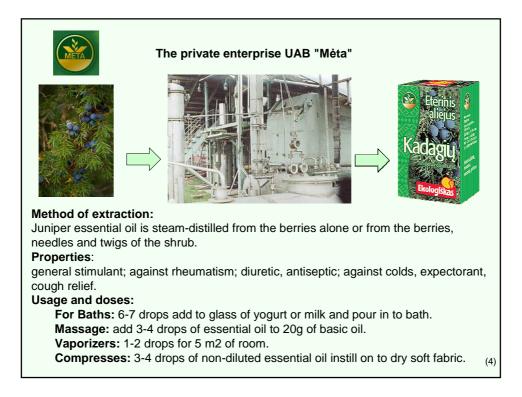
Juniperus communis accumulate essential oils which are recognized by the official pharmacopoeias of many countries as well as European Pharmacopoeia.

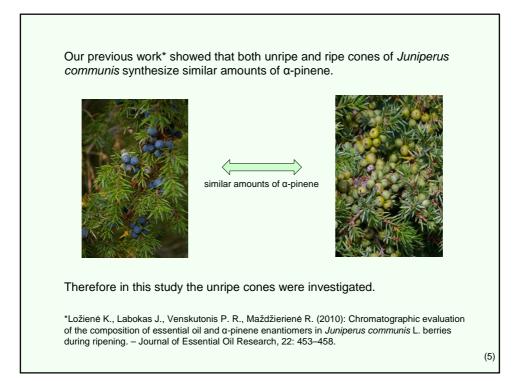
Juniperus communis contains up to 2.3% of essential oils in unripe cones, up to 1.1% in ripe cones and up to 0.4% in leaves (Butkiene et al., 2006).

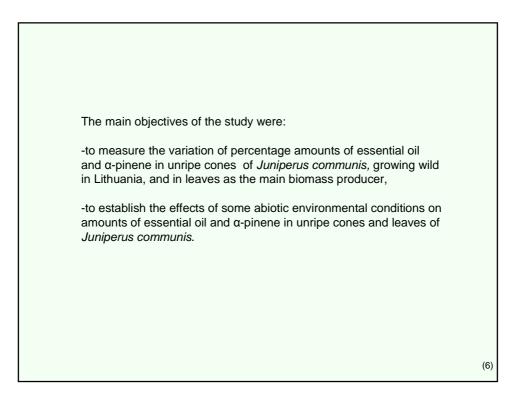


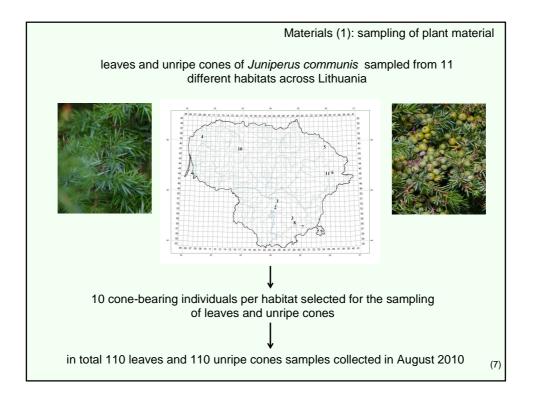
(3)

The medicinal properties of *Juniperus communis* depend mostly on monoterpene α -pinene (Cavaleiro, 2006; Leite et al., 2007), the contents of which vary greatly reaching 80.4 % of the total essential oil content (Angioni et al., 2003; Shamir et al., 2003; Butkiene et al., 2005, 2006).









	Materials (2): habitats characterisation								
11 investiga soil acidity a potassium a	ind the o	conten	ts of orga	-					
		Characteristics of habitats							
	Habitat No.	Light (klux)	N ₂ (%)	P2O3 (mg/kg)	K ₂ O (mg/kg)	Hamus	рН _{ксі}		
	1	35	0.20±0.03	67±23	156±21	3.6±0.4	6.5±0.6		
	2	31	0.33±0.06	153±35	311±72	4.9±0.3	7.3±0.1		
	3	28	0.31±0.08	180±72	194±106	4.9±1.5	5.1±0.4		
	4	30	0.25±0.11	54±41	78±18	5.1±1.8	5.1±0.9		
	5	30	0.18±0.03	86±26	131±10	3.3±0.2	6.7±0.3		
	6	29	1.01±0.30	7 5 ±14	71±13	14.4±4.6	7.7±0.1		
	7	12	0.05±0.00	88±16	16±3	1.7±0.2	4.3±0.1		
	8	11.5	0.13±0.03	149 ±5 1	25±6	3.7±0.5	4.2±0.0		
	9	5	0.04±0.01	103±7	24±1	1.4±0.2	5.6±0.2		
	10	13	0.07±0.02	11 54 6	28±10	2.1±0.9	4.1±0.2		
	11	9	0.04±0.02	88±16	24±4	1.9±0.4	4.8±0.6		
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