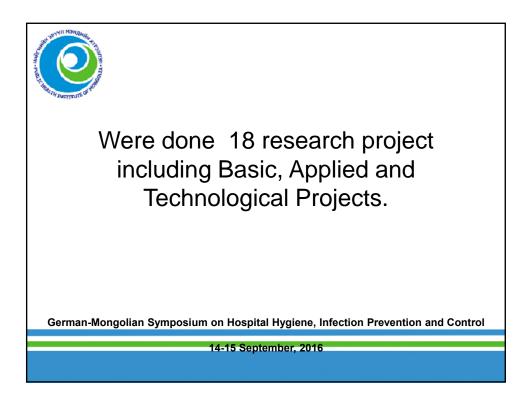
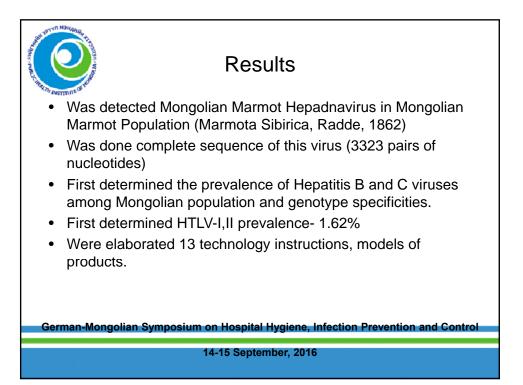


0		•	technology and Molecular Biology, blic Health Institute
	Nº	Stages of Development	Activities
	1	1974 years	Set up the control Virology Laboratory and Biopreparation Control Laboratory at The State Institute of Hygiene, Epidemiology and Microbiology
	2	1985 years	Research Center for Virology at SIHEM
	3	1987 years	Was elaborated Complex Program for Controlling Viral hepatitis
G	erman		Hospital Hygiene, Infection Prevention and Control 15 September, 2016





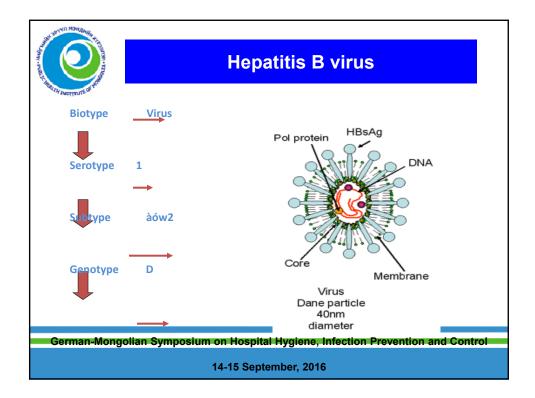
NIN HOMAN AND THE STATE	-	
orthohepadnavirus	Host	Literature
Hepatitis B virus (HBV) Chimpanzee hepatitis B virus (GhHBV) Gibbon hepatitis B virus (GiHBV) Orangutan hepatitis B virus (OuHBV) Gorilla hepatitis B virus (GoHBV) Woolly monkey hepatitis B virus (WMHBV) WHV Ground squirrel hepatitis virus (GSHV) Arctic squirrel hepatitis virus (ASHV)	Man (Homo sapiens sapiens) Chimpanzee (Pan troglodytes) White-handed gibbon (Hylobates lar) Orangutan (Pongo pygmaeus gorilla ( <i>Gorilla gorilla</i> ) Woolly monkey (Lagotricha) Woodchuck (Marmota monax) Ground squirrel (Spermophilus beecheyi) Arctic squirrel (Spermophylys parryi kennicotti)	Dane et al. (1970) Vaudin et al. (1988) Norder et al. (1996) Warren et al. (1999) Grethe et al. (2000) Lanford et al. (2000) Summers et al. (1978) Marion et al. (1980) Testut et ai. (1996)

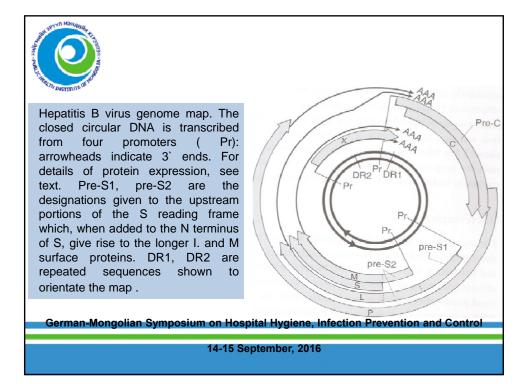
Seroprevalense of hepadnavirus infection in th	e
population of Mongolian marmots	

		Positives					
		anti-V	VHc+	WHs.	Ag+	anti-WHs+ %	
Aimags	total	numbers	%	numbers	%	numbers	%
Khentii	14	9	64.3	0	0	3	21.4
Dornogobi	4	0	0	0	0	0	6.7
Gobi-Altai	60	11	18.3	0	0	4	8.9
total	79	20	25.3	0	0	7	8.9

German-Mongolian Symposium on Hospital Hygiene, Infection Prevention and Control

14-15 September, 2016





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		ber of	Differen		Differen	
	nucleotide and amino acid		Differences in nucleotides		amino acids	
Gene regions	WHV			numbers %		
Gene "S" (Pre- sl+Pre-sll+s)	1296/432	1296/432	0	0	0	0
Gene "X"	426/142	402/134	5	1.24	4	2.98
Gene "C"	678/226	678/226	1	0.14	0	0
Gene"P"	2655/885	2655/885	11	0.41	7	0.79
erman-Mongolian Syr	nposium on	Hospital Hyg	iene, Infec	tion Pro	evention a	nd Con
	14-1	5 Septembe	r, 2016			

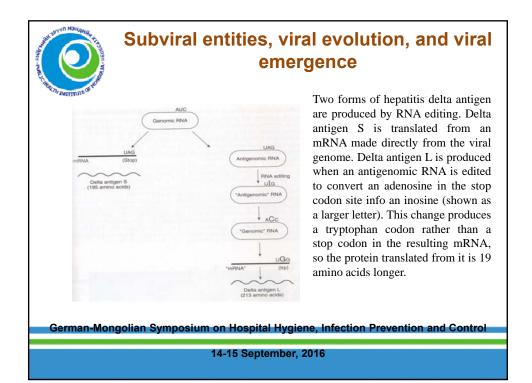


Patients numbers	From them HBsAg + (%)	Anti - HDV (+)	HBsA g,anti HDV ()+ (%)	Anti HCV (+)(%)	HBsAg, Anti HDV, Anti- HCV (- )(%)	Anti – HCV, HBsAg, Anti - HDV (- )(%)	Anti- HCV (+) HBsAg, Anti – HDV (- )(%)	HBsAg Anti HDV, Anti- HCV (+(%)
29	14/29 (48.2)	16/29 (55.20)	21/29 (72.4)	18/29 (62.1)	2/29 (6.9)	6/8 (75)	12/21 (57.1)	27/29 (93.1)
	(48.2)	(55.20)	(72.4)	(62.1)	(6.9)	(75)	(57.1)	(93

HE THE DESTITUTE OF MARK			Visit	ors o	f Dei	ntal C	linic			
Hepatitis	Numbers	From them					Positive		From them	
Viruses Markers			men			-				
		num bers	%	num bers	%	num bers	%	Men	Woman	
HBsAg	449	159	35.4	290	64.6	33	7.3	159/12 7.5%	290/21 7.2%	
Ànti- HCV	442	156	35.3	286	64.7	78	17.6	156/23 14.7%	286/55 19.2%	
German-Mo	ongolian Sympo			ital Hy ptembe			on Prev	vention a	nd Control	

THE TRUE OF THE		Нер	atitis Ma	arkers			
	Number	From them HBsAg (+) (%)	Anti HCV (+) (%)	Negative on 2 markers (%)	Anti HCV (+) HBsAg (-)	Anti HCV (-) HBsAg (+)	Positive on 2 markers
Patients with HCC	29	14 (48.3)	18 (62.1)	4 (13.3)	11/15 (73.3)	7/14 (50)	7 (24.1)
Patients with chronic Hepatitis	28	17 (60.7)	13 (46.4)	14(3.6)	10/11 (90.1)	3/17 (17.6)	3 (10.7)
Healthy People	190	13 (6.8)	31 (16.3)	146 (76.8)	29/17 (16.3)	2/17 (15.4)	2 (1.0)
German-Mongo	olian Symp	osium on H	ospital Hy	giene, Infe	ction Preve	ention and	Control
		14-18	5 Septembe	er, 2016			

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	Characteristic	Viroids	Hepatitis Delta Virus	Satellite RNA	Virusoids	Satellite Viruses
	Replication	Autonomous	Helper	Helper	Helper	Helper
	Protein encoded	No	Yes	Yes	No	Yes
	Capsid source	No capsid	Capsid-self Envelope- helper	Helper	Helper	Self
	Circular RNA	Yes	Yes	No	Yes	No
	Size (in bases)	250-400 Yes	1700	475-1375	325-390	1240
	Rolling circle replication	Yes	Yes	No	Yes	No
	Host	Plant	Animal	Plant	Plant	Plant
	Complementarity to 7S host RNA	Yes	Yes	-	-	-
Ge	rman-Mongolian	Symposium or	n Hospital Hyg	iene, Infect	ion Preventi	on and Cont
	J					
		14	-15 September	r, 2016		



Hepatitis	* VThe	Mongolia		
Hepatitis viruses	Authors	No of investigated samples and method	Results	
<u>HBV</u>	J.Oyunbileg, 2001`s	54- Philogenetic analysis	D genotype-100%	
	Ts.Oyunsuren, 2005`s	248- RFLP	D genotype-99.6%	
	M.Takahashi, 2005`s	22- Philogenetic analysis	21-D genotype 1-F genotype	
<u>HCV</u>	Ts.Oyunsuren, 2005`s	634- Genotype specific PCR	99.7%-1.6 genotype	
	M.Takahashi, 2005`s	36-Genotype specific PCR	97%-1 b genotype	
	D.Baatarkhuu, 2006`s	54-Genotype specific PCR	98.2%-1b genotype	
<u>HDV</u>	M.Takahashi, 2005`s	20	I genotype 100%	
German-M	ongolian Symposium on	Hospital Hygiene, Infection Pro	evention and Control	

