

<b>Virus Name: Jamanxi</b>		<b>Abbreviation: JAMV</b>
Status <b>Possible Arbovirus</b>	Select Agent <b>No</b>	SALS Level <b>3</b>
SALS Basis <b>Insufficient experience with virus; i.e., experience factor from SALS surveys was less than 500 in laboratory facilities with low biocontainment.</b>		
Other Information		
Antigenic Group <b>Changuinola</b>		

**SECTION I - Full Virus Name and Prototype Number**

Prototype Strain Number / Designation <b>BeAr 243090</b>	Accession Number	Original Date Submitted <b>10/11/1984</b>
Family <b>Reoviridae</b>	Genus <b>Orbivirus</b>	
Information From <b>F. Pinheiro and Amelia P.A.T. Rosa</b>	Address <b>Instituto Evandro Chagas, FSESP, Ministry of Health, CP-621, 66.000, Belem, Para, Brazil</b>	
Information Footnote <b>Reviewed by editor</b>		

**Section II - Original Source**

Isolated By (name) <b>F. Pinheiro and Amelia P.A.T. Rosa</b>	Isolated at Institute <b>Instituto Evandro Chagas</b>	
Host Genus <b>Lutzomyia sp. (1)</b>	Species	Host Age/Stage <b>Adult</b>
Sex <b>Female</b>		
<u>Isolated From</u>	<u>Isolation Details</u>	
Signs and Symptoms of Illness	Arthropod <b>Depleted</b>	
Time Held Alive before Inoculation <b>1 hour</b>		
Collection Method <b>Human bait, night</b>	Collection Date <b>7/9/1973</b>	
Place Collected (Minimum of City, State, Country) <b>Km. 217, Santarem-Cuiaba highway, Para, Brazil</b>		
Latitude <b>3° 0' S</b>	Longitude <b>55° 0' W</b>	
Macrohabitat <b>Tropical rain forest</b>	Microhabitat <b>Ground</b>	Method of Storage until Inoculated <b>Liquid nitrogen and -60dC electrical freezer</b>
Footnotes		

**Section III - Method of Isolation**

Inoculation Date  
**11/30/1973**

Animal (Details will be in Section 6)  
**nb mice**

Route Inoculated <b>Intracerebral</b>	Reisolation <b>No</b>
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Other Reasons  
**First strain of this virus isolated in our laboratory**

Homologous Antibody Formation by Source Animal

Test(s) Used

Footnotes

**Section IV - Virus Properties**

Physicochemical

Pieces (number of genome segments)	Infectivity	Sedimentation Coefficients(s) (S)
Percentage wt, of Virion Protein	Lipid	Carbohydrate
Virion Polypeptides: Number	Details	
Non-virion Polypeptides: Number	Details	
Virion Density	Sedimentation Coefficients(s) (S)	
Nucleocapsid Density	Sedimentation Coefficients(s) (S)	

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**Stability of Infectivity (effects)**

pH (infective range)

Lipid Solvent (ether - % used to test)	After Treatment Titer	Control Titer
Lipid Solvent (chloroform)	After Treatment Titer	Control Titer
Lipid Solvent (deoxycholate) <b>1:1000</b>	After Treatment Titer <b>3.6 dex</b>	Control Titer <b>4.7 dex</b>
Other (formalin, radiation)		

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**Virion Morphology**

Shape	Dimensions	
Mean nm	Range nm	
Measurement Method	Surface Projections/Envelope	Nucleocapsid Dimensions, Symmetry

**Morphogenesis**

Site of Constituent Formation in Cell      Site of Virion Assembly      Site of Virion Accumulation

Inclusion Bodies      Other

**Hemagglutination**

Hemagglutination      Antigen Source      Erythrocytes (species used)  
**No**      **SMB ext. by sucrose-acetone + sonication**      **Goose\*\***

pH Range      pH Optimum  
**5.8-7.0**

Temperature Range      Temperature Optimum  
**25-27dC**

Remarks  
**\*\* Green monkey erythrocytes also tested**

Serologic Methods Recommended

Footnotes  
**\*\* Green monkey erythrocytes also tested**

**Section V - Antigenic Relationship and Lack of Relationship to Other Viruses**

Related by CF to Irituia and to other members of the Changuinola group as follows (tests performed at the Institute Evandro Chagas):

Antigen	Serum					
	Irituia	Gurupi	Ourem	Caninde	Jamanxi	Altamira
Irituia	16/16 <sup>a</sup>	16/16	>128/16	>128/16	>128/16	16/16
Gurupi	16/16	32/16	>128/16	>128/16	>128/16	16/16
Ourem	4/16	16/16	>128/64	>128/16	>128/16	16/16
Caninde	16/64	16/64	>128/64	>128/64	>128/64	16/16
Jamanxi	8/4	16/4	>128/4	>128/4	>128/16	16/16
Altamira	8/4	16/4	>128/4	>128/4	>128/16	16/16

<sup>a</sup> Antibody titer/antigen titer

Results of neutralization tests performed in infant mice (ic route) at the Evandro Chagas Institute were as follows:

Virus	Ascitic Fluid or Serum					
	Irituia [5i] <sup>b</sup>	Gurupi [5i] <sup>b</sup>	Ourem [4i] <sup>b</sup>	Caninde [5i] <sup>c</sup>	Jamanxi [3i] <sup>c</sup>	Altamira [4i] <sup>c</sup>

Irituia	3.0 <sup>d</sup>					<1.0	0.8
Gurupi		2.5				<0.3	<0.3
Ourem			3.9			<1.0	<0.9
Caninde				3.0		0.8	0.4
Jamanxi	0.2	0.3	0	0.5		3.0	0
Altamira	1.1	1.2	1.0	1.0		0.9	>3.1

<sup>b</sup> Ascitic fluid

<sup>c</sup> Serum

<sup>d</sup> LNI in dex

#### Section VI - Biologic Characteristics

Virus Source (all VERTEBRATE isolates)

Lab Methods of Virus Recovery (ALL ISOLATIONS)  
Newborn mice

Cell system (a)	Virus passage history (b)	Evidence of Infection						
		CPE			PLAQUES			Growth Without CPE +/- (g)
		Day (c)	Extent (d)	Titer TCD50/ml (e)	Day (c)	Size (f)	Titer PFU/ml (e)	
Vero (CL)	SMB 3	3rd	4+	>8.5 (e)				

(e) Expressed in dex

Vertebrate (species and organ) and arthropod	No. isolations/No. tested	No. with antibody/No. tested Test used	Country and region
Lutzomyia sp. (females)	1/20 (1,114 insects)		Km. 212 and 217, Santarem-Cuiaba, Para, Brazil
Lutzomyia sp. (males)	0/6 (237 insects)		
Oryzomys sp.		0/50 NT	Km. 212, Santarem-Cuiaba, Para, Brazil
Oryzomys macconnelli		1/13 NT	
Oryzomys oecomys		0/3 NT	
Proechimys		0/40 NT	
Nectomys		0/13 NT	
Rattus rattus		0/4 NT	
Paca		0/2 NT	

**Section VIII - Susceptibility to Experimental Infection (include viremia)**

Experimental host and age	Passage history and strain	Inoculation Route-Dose	Evidence of infection	AST (days)	Titer log10/ml
Mice (nb)	SMB 2	ic 0.02	Death	2.2	
Mice (nb)	SMB 5	ip 0.02	Survived		
Mice (nb)		sc			
Mice (wn)		ic 0.03	Survived		
Mice (wn)		ip 0.03	Survived		
Mice (nb)	SMB 7	ic 0.02	Death		8.0
Mice (nb)	SMB 6	ic 0.02	Death		8.7
Mice (nb)		ip 0.03	Survived		
hamster (23 day)		ic 0.1	Survived		
hamster (23 day)		ip 0.1	Survived		

**Section IX - Experimental Arthropod Infection and Transmission**

Arthropod species & virus source(a)	Method of Infection log10/ml (b)		Incubation period (c)		Transmission by bite (d)		Assay of arthropod, log10/ml (e)		
	Feeding	Injected	Days	°C	Host	Ratio	Whole	Organ	System

**Section X - Histopathology**

Character of lesions (specify host)

Inclusion Bodies

Intranuclear

Organs/Tissues Affected

Category of tropism

**Section XI - Human Disease**

In Nature

Residual

Death

Subclinical

Overt Disease

Clinical Manifestations

Number of Cases

Category (i.e. febrile illness, etc.)

**Section XII - Geographic Distribution**

Known (Virus detected)

**Para State, Brazil**

Suspected (Antibody only detected)

**Section XIII - References**

1. Travassos da Rosa, A.P.A. et al. 1984. Intervirology 21:38-49.

**Remarks**