

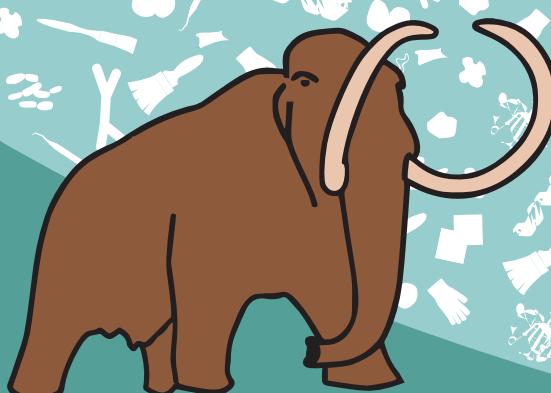
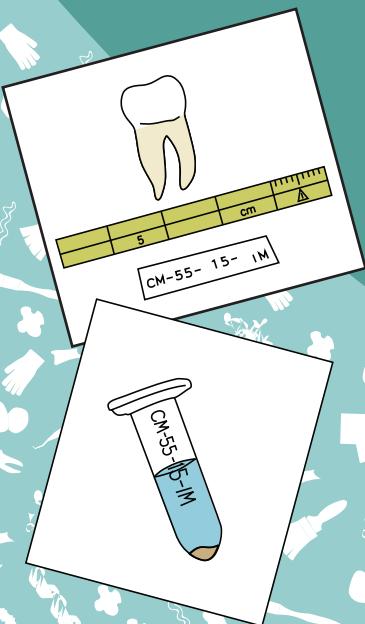
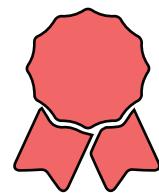
Mesko tee aki kai

NATO ARQUELÓGICA ANI ONAN SHINAN IKAINKO

Nato kirikan ibo riki:

Jane

Ikai/iamax
bioarqueologa/o iamax
tanax axea pekao



Westiora kirika sikati aka
Max Planck Institute for
Evolutionary Anthropology

Mesko tee aki kai

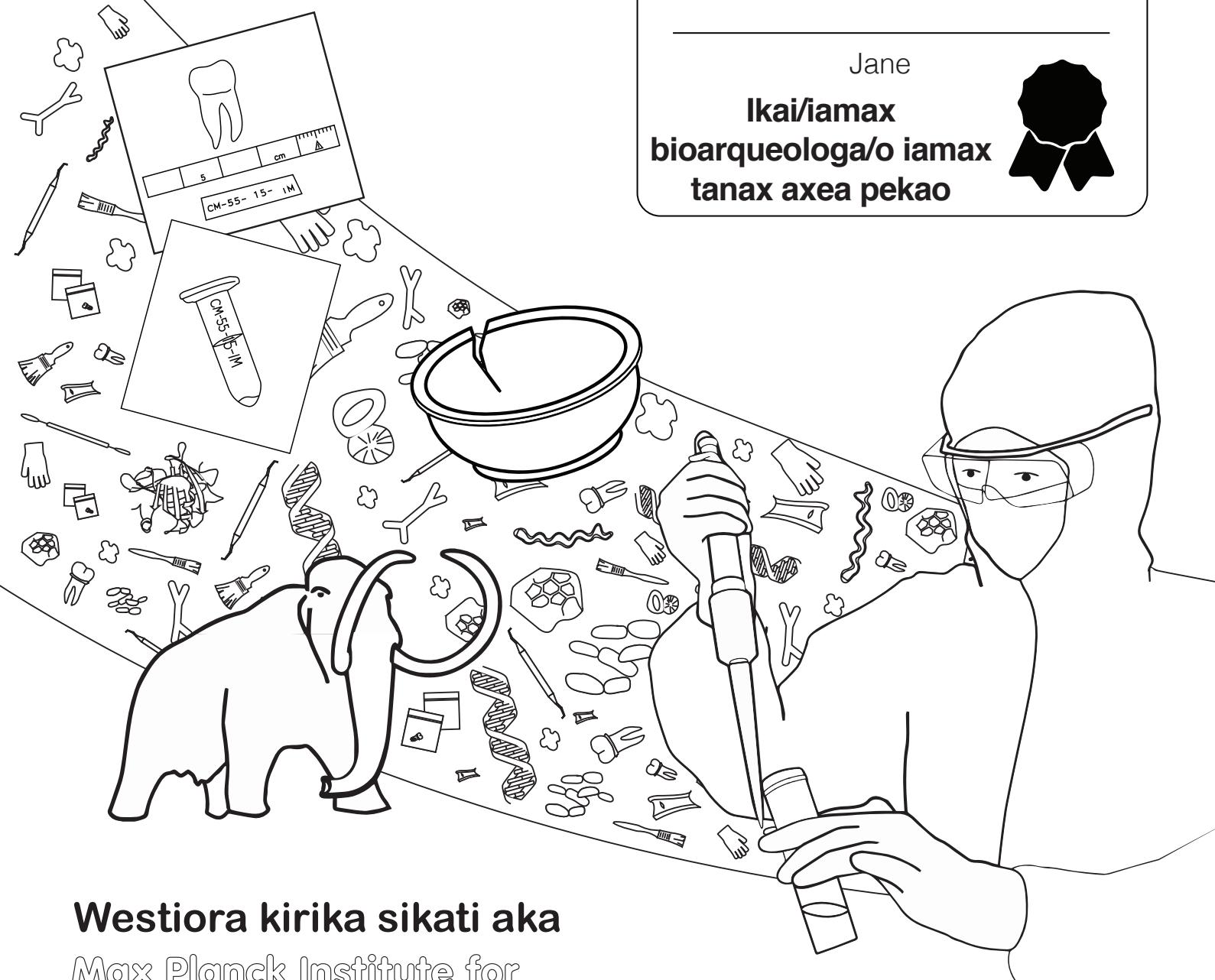
*NATO ARQUEOLÓGICA
ANI ONAN SHINAN*

IKAIINKO

Nato kirikan ibo riki:

Jane

**Ikai/iamax
bioarqueologa/o iamax
tanax axea pekao**



Westiora kirika sikati aka

Max Planck Institute for
Evolutionary Anthropology

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2022



TSOABORIN NOABO

Noa bioarquelobo riki onantini merayatabo jan non akai riki método científico itan bena wetsa jaskatax jan axetibo moatian joni winoniboki ikabo.



Jaa xaba teti ikainko ...

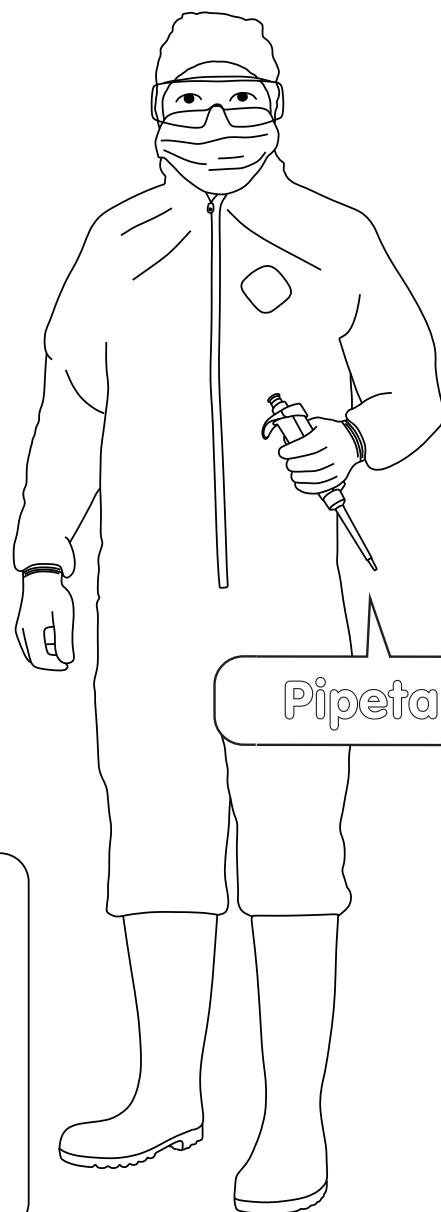
Jaa bioarquelogobora tetai arqueologobo jeman tetai boaibobetan chiniti itan jaa ointi tsinkiti oribo jan jaa onankanti kopi laboratorio ikainxon.

Nato tee ikainko iti atipanke jai minkanabo jaa jato oinmatibo, moatian chomonkonia ika teexebo tsinkiti, yoinabaon xao Jain kerasbo potati ikain merati (kini teexe Jain potakanayabo) iamax jakon akinshoko toakin mai potobo moatian xobi taxnakaina biti kopi.

Jaa laboratorio ikainko ...

Jaa motian ADN teakin, noa científicobora teti jake xaba kerasma ikainko itan non chopasaweti jake jaskara akin atibiri, mesaweti itan botasbo non moatian ika jaa ointibo non rami atimakopi ramatian ADNnin.

Jaa científicobaonra akai mesko keska jan teti itan jan atibaon onankin moatian ikatiaibo.





JAA MAI KINI

Jaa bioarqueólogobora bokanai nete mayai moatian ikatiaibo onanoxon itan nete benatian joni ikatiaibo ribi. Jaskaribi jan teti chinitiboya, wetsatianbora jati jake jan teti janshaman atibo. Iti atipanke, Himalaya ikainko, arquelogobaon yokaparikanti jake teti kopi itan jan netiboya iti jake jato.

Department of Immigration
TREKKING PERMIT

accordance with the rule 33 of
in the area of Mustang
District (excepting
to 19)

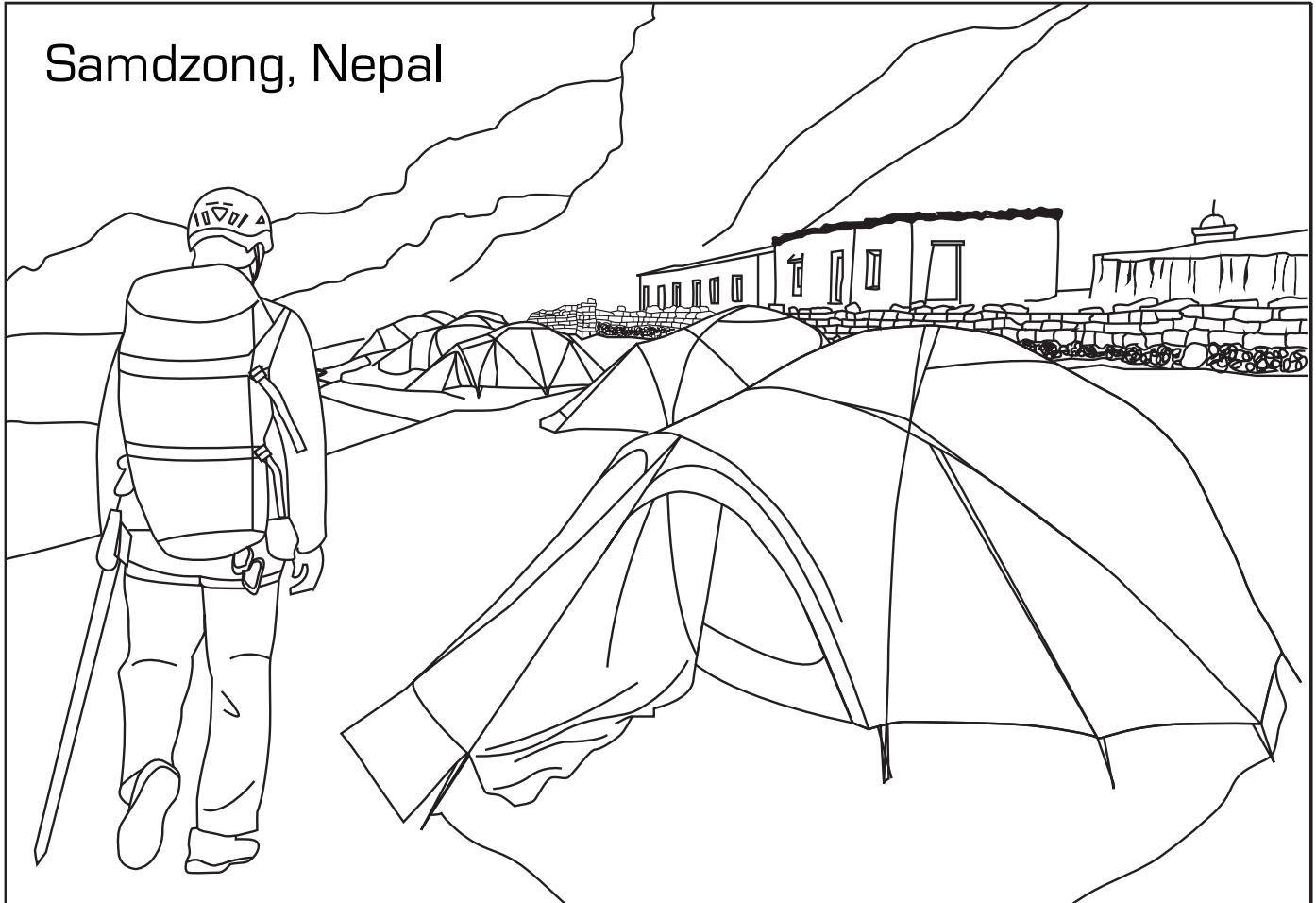
Validity of Nepalese
Point of Entry

Palace of Trekkers

TOURIST COPY

NATIONAL TRUST FOR NATURE CONSERVATION	
Entry Permit (ACA/MCA/GCA)	
Schedule - 2 (Relating to Sub-Rule [1] of Rule 19)	
Receipt No.	0281630
Entry Permit No.	Date:
Full Name:	Entry Permit Issuing Authority
Date of Birth:	Signature
Passport No.	Full Name:
Nationality:	Designation:
Purpose of Visit:	
Ticket No.: 8155	
Date:	
Nationality:	
Authorized Signatory: DIBRA SINGH	
Signature of Issuing Officer	
No:	

Samdzong, Nepal



Xetanaman pashinbo

Jaskaribi jaska akin onankana, jaa xetanko pashinbo jaa riki Jainbicho non yora ikanoa Jain poi iamax boi banetai noa jiria ikenbi. Jaa boibaonra akai yatankin bexeshoko xetankonia ika xenabo itan jawekiati texebo, itan nato ati atipanke non wetsa keska akinbires jawekiamakin itan jaskaribi jonibaon salud.

Xaobo itan xetabo

Jaa xaobo itan xetabo ikain jake ADN jaa iti atipanke oribo onantibo moatian kawankatitai wetsa join yoyo ikai jonibo onantibo itan jaweskarak ikatikai ixon ribi, jaweskarak ikatiai jaton berobo iamax jaton boo, jaskaribi non kaibo iti jimi tsinkitaibo. Moantin ani isinaman retea jonibo jatora jaya iti atipanke jaa ADN isinyabopari jaton yoranko isiman ikana ika ikax.

Chomo ikain texebo

Jawekiati texebo itan wetsa texe chomonko banetabo iti atipanke yoinabaon itan xobibaon proteinayabo, maxkoshoko jishtimacha xobi texe banetabo itan xeni texebo jawekiati akin akanabo. Nato texebo non análisis akton noa axeati atipanke moatian jaa jawekiakatikaibo moatian jonibaon.

Yoinabaon xao

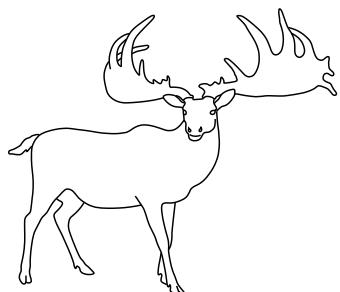
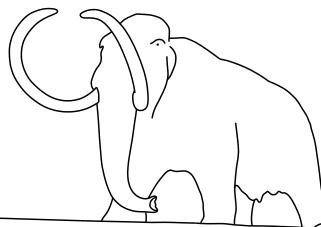
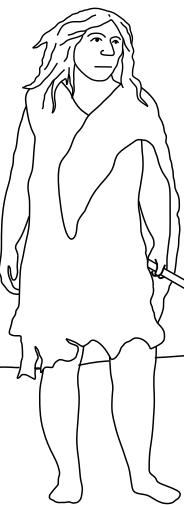
Noara axeti atipanke jaskakin jakon akin jawekiati itan moatian jaya ikitikanaibo yoinabaon xao onanyana. Jaskaribi jakon iki radiocarbononin tsimes itan moatian winotabo bena aribati kopi.

JAWEKI NON ONANAI

Jaa bioarqueólogaonra akai métodos científicos nin akin itan bena tecnología nin moatian yoka winotabo axeti jan yoikanai. Janshaman tee ati janra icha información non biti iki maxkoshoko jaweki ikainoabo, nato xaobo ikain, westiora xeta ikainoa iamax westiora chomo ikanoa.

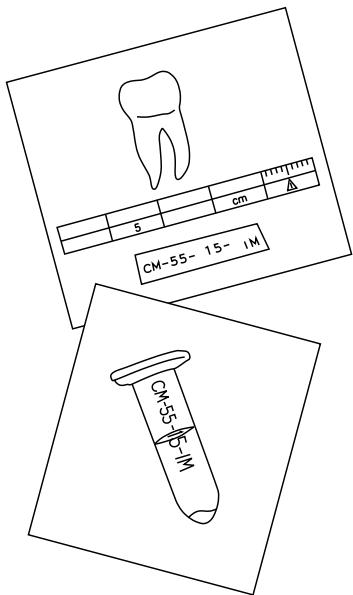
EMINKI ONANA...?

Jaa neandertalesbo keyokana iki moa 40 000 baritia, ikaxbi jaton ADN neandertal jake genomas jaweti joni africa ika ikainko.



JAINOA X NOA JONIBO PEOKOTA

Jaa moatian ADN baonra noa akinai onankinki non ochoma bena kaibobo onamakin: jaa neandertales.



Bena Pikoinatai

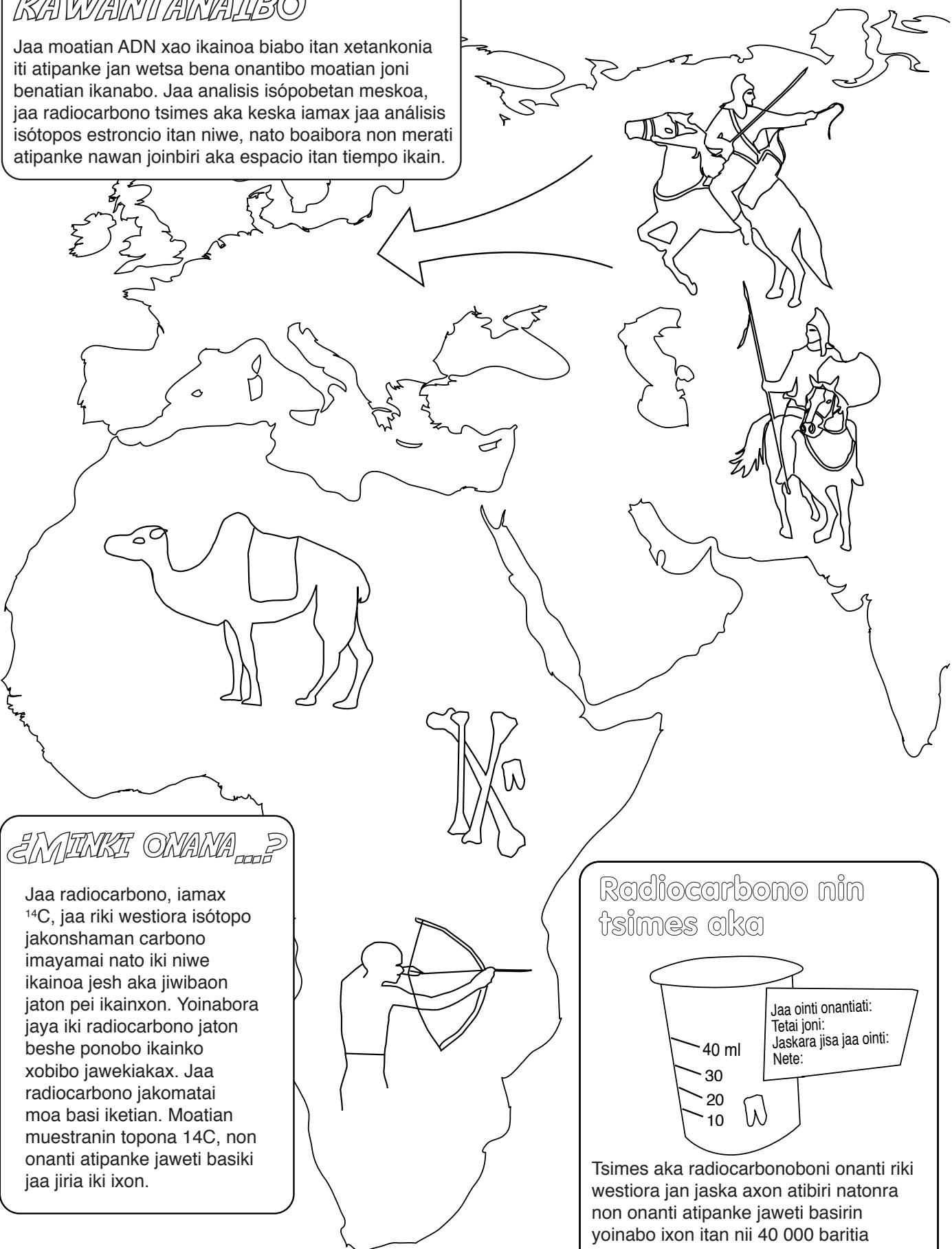
Jaa xetabo onankin itan xaobo moatian jonibaona, non onanti atipanke jaweskatiki jakatikanai non moatian rarebo itan jaweskarakti rama noa itai keska noa baneta iki ixon.



MOATIAN JONI KAWANTANAIBO

Jaa moatian ADN xao ikainoa biabo itan xetankonia iti atipanke jan wetsa bena onantibo moatian joni benatian ikanabo. Jaa analisis isópobetan mesko, jaa radiocarbono tsimes aka keska iamax jaa análisis isótopos estroncio itan niwe, nato boabiora non merati atipanke nawan joinbiri aka espacio itan tiempo ikain.

Escitas, Asia napon bekomea
Yamin baritia, 700 K.J.



EMINKI ONANA...?

Jaa radiocarbono, iamax ^{14}C , jaa riki westiora isótopo jakonshaman carbono imayamai nato iki niwe ikainoa jesh aka jiwibaon jaton pei ikainxon. Yoinabora jaya iki radiocarbono jaton beshe ponobo ikainko xobibo jawekiakax. Jaa radiocarbono jakomatai moa basi iketian. Moatian muestranin topona ^{14}C , non onanti atipanke jaweti basiki jaa jiria iki ixon.

Radiocarbono nin tsimes aka

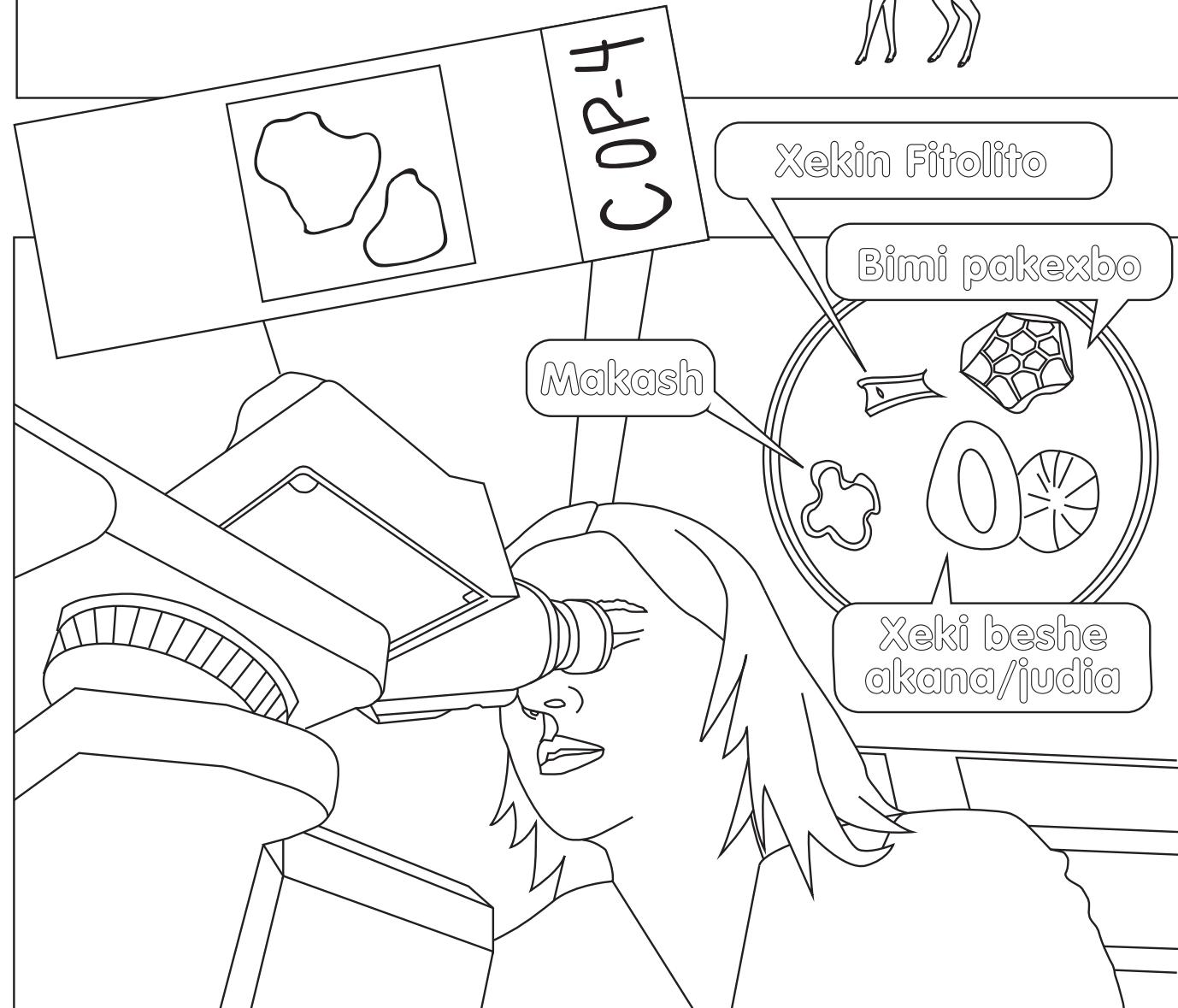


Tsimes aka radiocarbonoboni onanti riki westiora jan jaska axon atibiri natonra non onanti atipanke jaweti basirin yoinabo ixon itan nii 40 000 baritia winotabo ribi.

MOATIAN SAMATIBO

Jaa científicobaonra merakanti atipanke chomo pakex itan jonibaon xeta ikainko jawekiati tsimesbo. Itan jonin xetankonia. Jaa análisis nato " microfósiles" akabo jabaonra noa akinai onankinki jaweki jawekiakatikanai moatian wetsa join yoyo ikai joni maya nato Mesoamérica 2000 años.

Copán, Honduras
Maya, 300 K.J.



AXEMATI

10 000 baritia winoa, jonibaonra banake yoabo itan inan akanke yoinabo katoxon. Waka ika iki japari akana ina akin, itan jaa reken waka ina akaibaon akatiai ninimakin itan nawi jainoa jawekiati kopi ina akin, waka xoma jene itan jawen bichibo biti kopi.

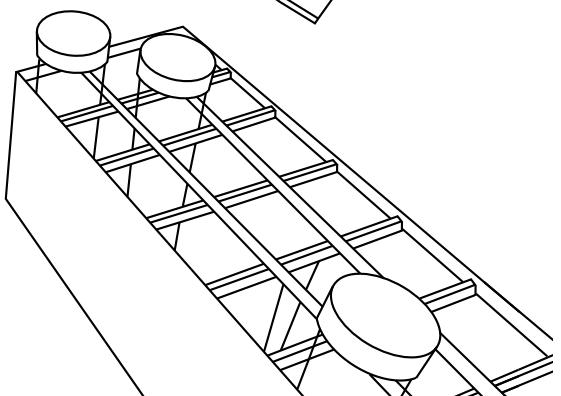
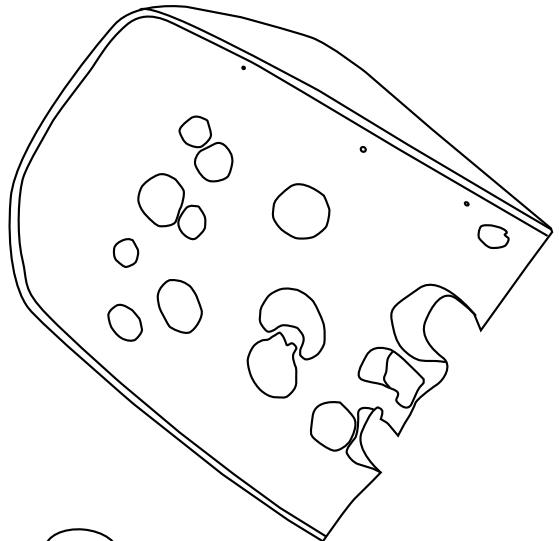
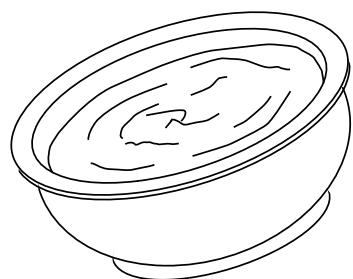
¿MINKI ONANA...?

Waka ina akin peokana iki bisontes eupeos ikainxon (jaskaribi janekanai urus), westiona ina kikinshaman ani, rama moa yamake. Jainxon waka ina akin peokana jain pari merakana moatian ika nato joai iki Antolia teki ikainko naton jane iki rama Turquía.

Jaskaxon yoinan
xoma jene
jawekiati chorish
akin peokanin

Yoina xoma jene choris akana
jawekiati jawetian pikokanarin
ixon tson onanshamayamakanke,
ikaxbi bioarqueólobobaon akai
westiora jan onantini jawen jane
iki espectrometría de masas jaa
iki proteinabo onanti waka xoma
jene xetankonia onanti moatian
joni benatian windokanibona
itan jaska axon bena axón
moatian waka xoma choris axón
jawekiakatikanaibo.

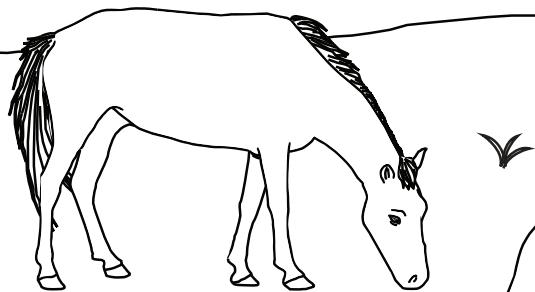
Jaa ointi proteina



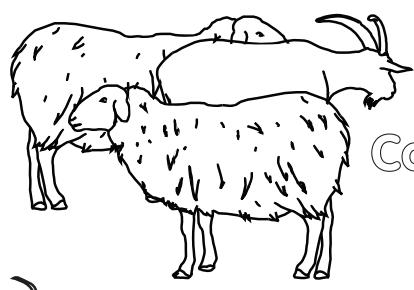
Mongolia

Mongolia pastonko jake mesko keska yoinabo, jaribake caballobo, reses, cabras, obijabo, renos itan camellobo. Jaa koiranai kawan atanaibo bikanai icha jaa yoinabaon xoma jene.

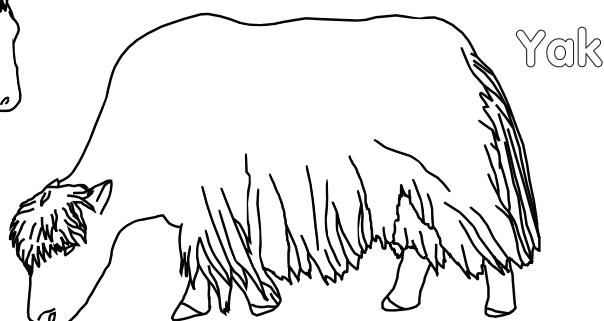
Caballo



Obija

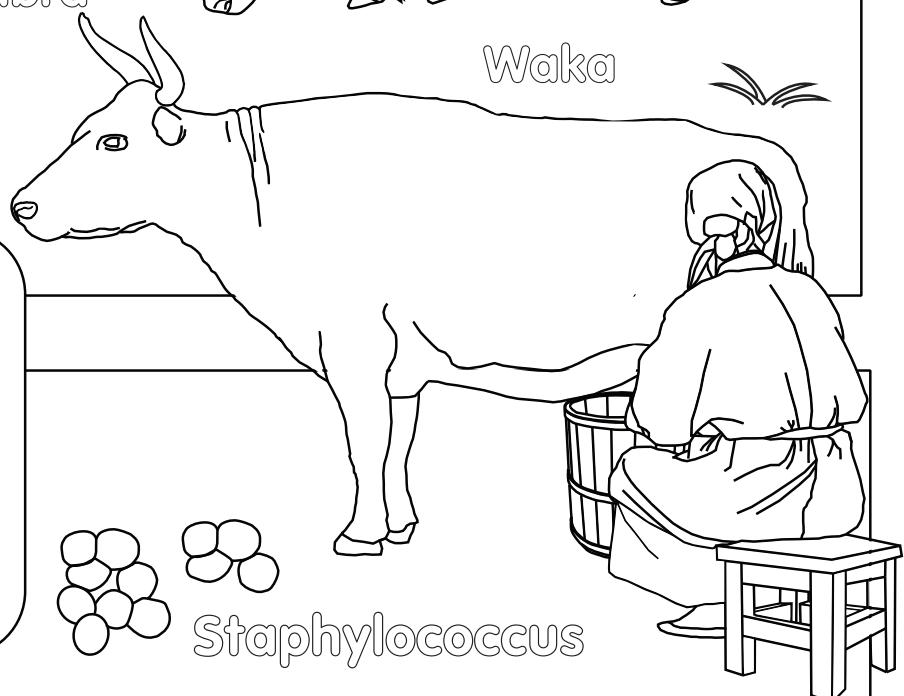


Cabra



Yak

Waka

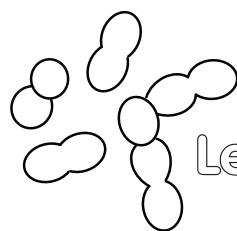


YOINAN XOMA JENE CHORISH AKA JA WEKIATI

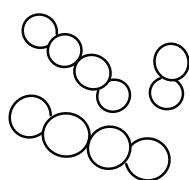
Jaa waka xoman jene jawekiati jaa riki Mongolia jemankoxon ayorakin nete tibi jawekiakanai. Nato investigación arqueológica ikainkoxon onankana iki nato moatianbi 3500 baritia pekao ikainxon peokana.



Staphylococcus



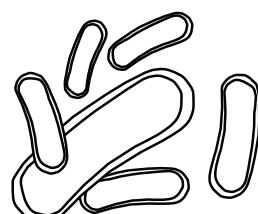
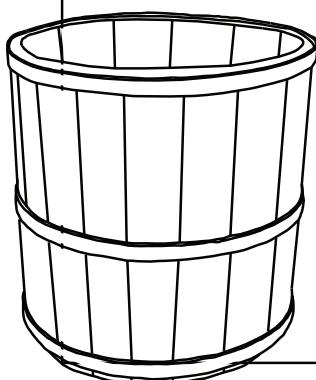
Leuconostoc



Lactococcus

Waka xoma jene cho- ris akana ikain jawen besheshoko xenabo

Jaa besheshoko xena, nato kikin onantikoma itan levadurabo, jabo iki waka xoma jene jawekiati mesko keska pikokin atibo nato yogurt, mantequilla itan queso, itan jaa onankanamatani jaskakinbiriakin onankana el aaruu (requesón tarax) itan airag (birisinko jene caballonin yoma jene akana) Mongoliainoa.



Lactobacillus

am hilianas
de conone decantare: qui toni
aut amida

MOATIAN ISINBO WINOTABO

Jaa xaobo, xetabo, itan xeta naman pashinbo jabaon akai benxo akin mesko keska onantibo saludmea jawekibo moatian joni winotabaona. Iti atipanke, jaa ADN itan proteinasbo ikain japaria xeta nawan pashinbo jabaon akai científicobio ishton merakinki gingivitis winonibo itan xeta payotaibo.

color qui oculis dilatatur
capit nec caput qui fan
nec dumus et molle quod
gat et tamen aliud est
false est explicare non
sup Iosephini Iustos VIII
in iuribus affiat: omnis
suggerit: obmitest
Vnde et consideranda deo in
tes in medio curitatis mi
sed opib; mentes mis
ficatione cibos iant: si
annunciations portan



tes finit in quedam plantaria in ossibus mar
illarum et menti quibusdam radiis manu et sunt
in

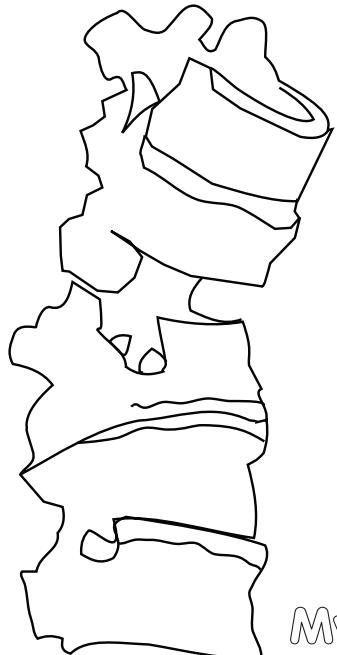
Omne Bonum

Omne Bonum latinma ika jaa riki westiora kirika Jain jaa axeti nato siglo XIV jaskati jakatikanai Europa medieval ikain nato japarike benxoakana Jain kirika onanti tsamankanai ikainko Real Británica. Jain jake onantiakin akana nato odontologíaki ika itan raonmisbaon koiranti iki ika jabaon akai ayorabireskin akinki salud itan isinbo Edad Media ikain winotabo onamakin.



quod priores plures
nunquam scripibus de flangendu

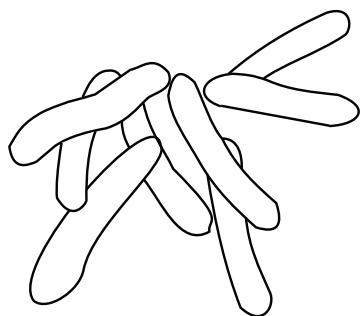
tantis. ... per illa
a dulciora sup me



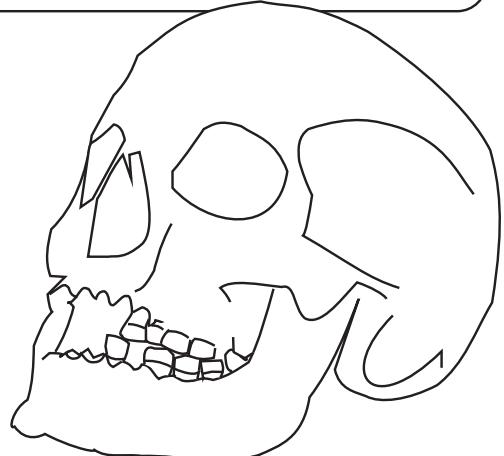
BONXAN ISIN ITAN CHANKO

PAYO ISIN

Jaa bonxan isin itan chanko payo isin riki nato onantikoma xena isinma ima: *Mycobacterium tuberculosis* itan *Mycobacterium leprae*. Jaa rabekanra bimati atipanke xaobo, itan wetsa ADNbo moa xaobicho iketian akinribai científicobo moatian ikatian isinbo merakankin jakiribi bena akin.



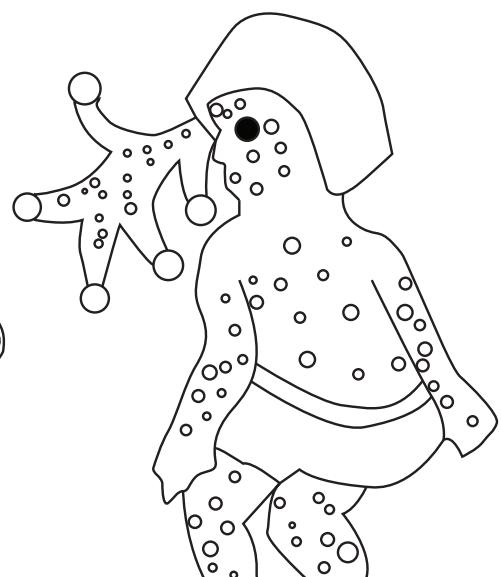
Mycobacterium leprae



JA COCOLIZTLI

Westiora ani sin tson onanyama, jawen jane Cocoliztli aztecas baon aka, retea iki nato 60% itan 90% Mexico ikainoa jonibo nato 1545 itan 1550. Ramabi, nato isiman *Salmonella enterica* Paratiphy Paratiphy C ADN merakana iki westiora joni jaa ani isinya mawataton xetanko.

Salmonella enterica



Dr. Schnabel

Rokotorobo jan joni ani isiman ikaitian raonkatiaibo nato siglo XVII sawekatikanai westiora bepomati nato isakan mapo keska isinma itima kopi jakoma niweboki koirameti.

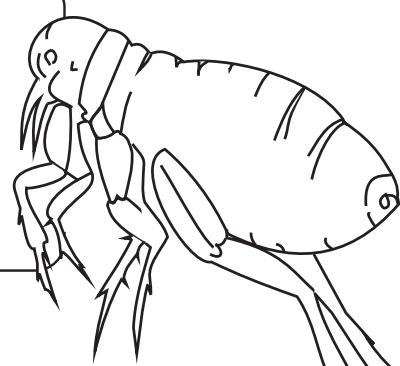


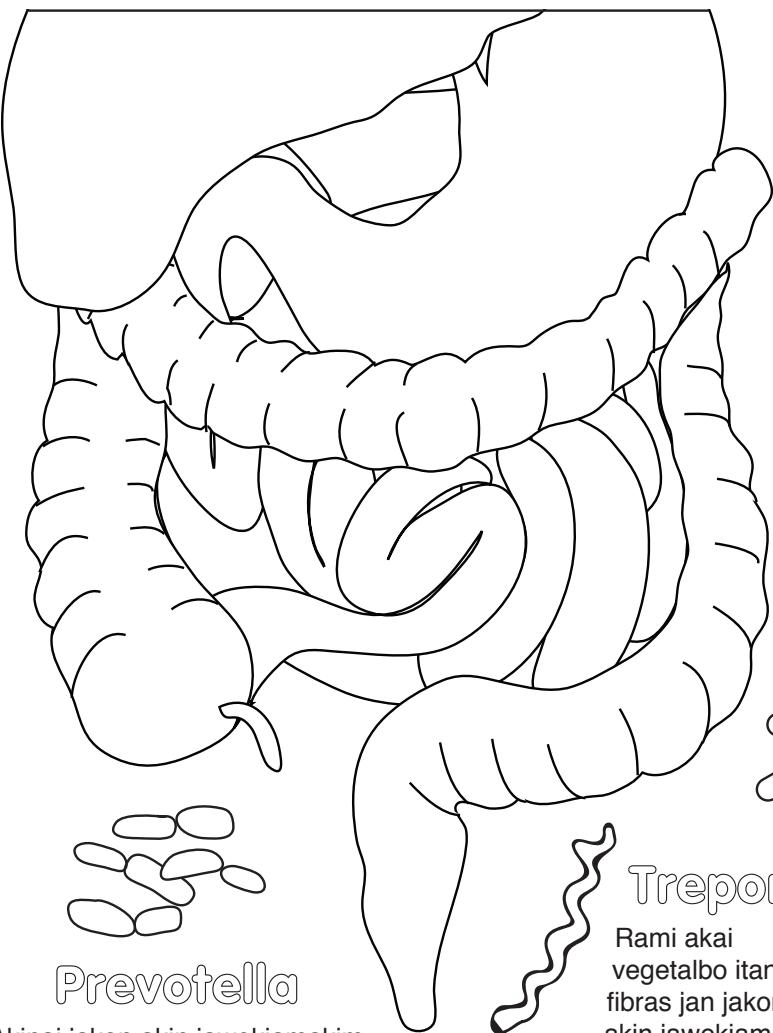
Codex en Cruz

Nato kirika azteca baritia 1550 ikanoa noa oinmai jaskati isinkatikanai nato ani isin Cocoliztli: yona, mashi jokoni itan jimi ichatama bei.

CHAMI ISIN

Ja peste riki ika nato besheshoko xenan onantikomabaon ima *Yersinia pestis*, nato ichai iki xoyan ia moa jaa isinyabo ikainoax. Jaa iakan jonibo natexara moa jaya iki nato peste bubónica. Nato ani isin peste jan jato icha joni mawama iki jakopi yoikanike Muerte Negra (1346-1353) jan retea iki nato pochininko jema Europa jaa baritia.





Prevotella

Akinai jakon akin jawekiamakim
nato nishi xobibo

Treponema

Rami akai
vegetalbo itan
fibras jan jakon
akin jawekiamakim

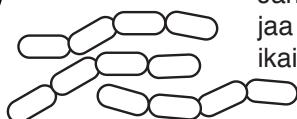
Helicobacter pylori

Jake pokochico itan
ani payoati atipanke
itan kanserya imakin

Bifidobacterium

Akinai bakebo jakon
akin leche xeamakin

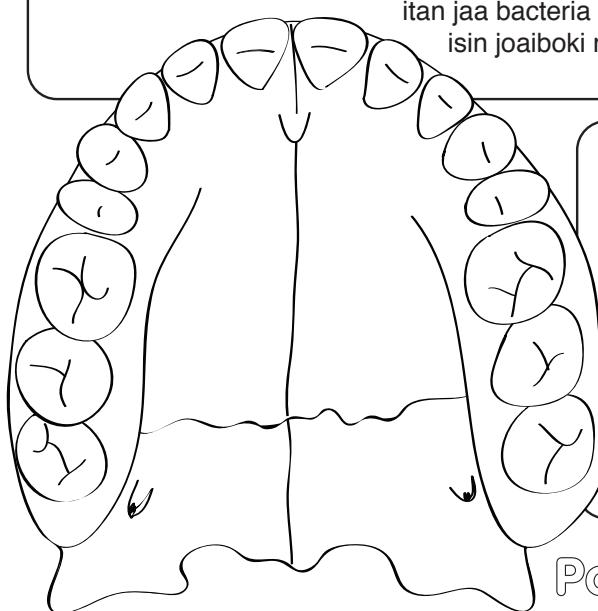
Faecalibacterium



Jan pikoxonai jawekiati
jaa célula ani pokochico
ikainoa

MOATIAN MICROBIOMAS

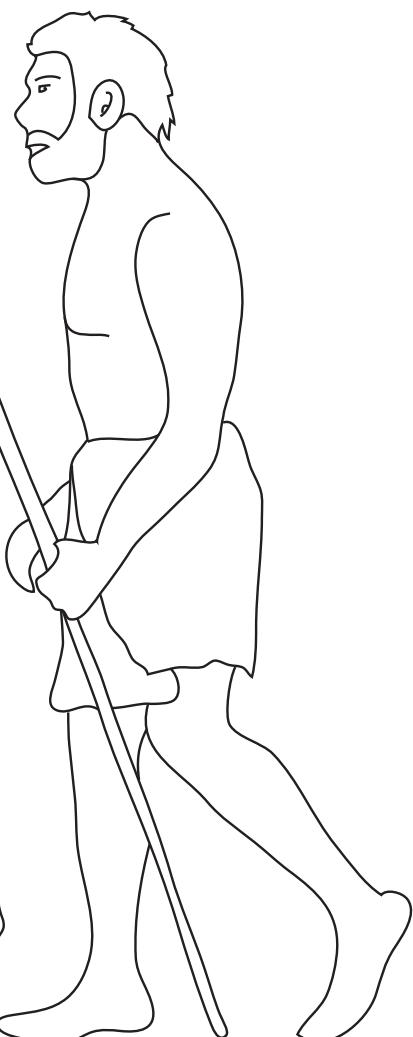
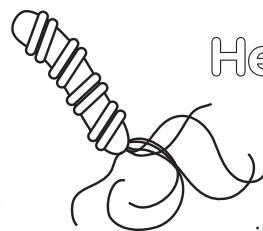
Min yora riki **trillones** maxkoshoko xenan xobo, itan jaa jatibira jane
kanai microbioma. Jaa besheshoko onantikoma xena min ani pokochico
ikainoara akinai jakon akin mia jawekiamakim itan ribi min yora koshi
akai. Jaa bacteria min yorankobo ikatonra akai mia keras imayamakin,
itan jaa bacteria min xeka ikatonra akai
isin joaiboki mia panaxonki.



¿MINKI ONANA...?

Jaa científicobaonra onanai
xeta naman pashinbo itan
moatian poibo microbiomas
bo moatian ikatiabo
onankanti kopi itan
jakon akin onankanti
kopi jave kopiki
isinkatikai ixon.

Porphyromonas

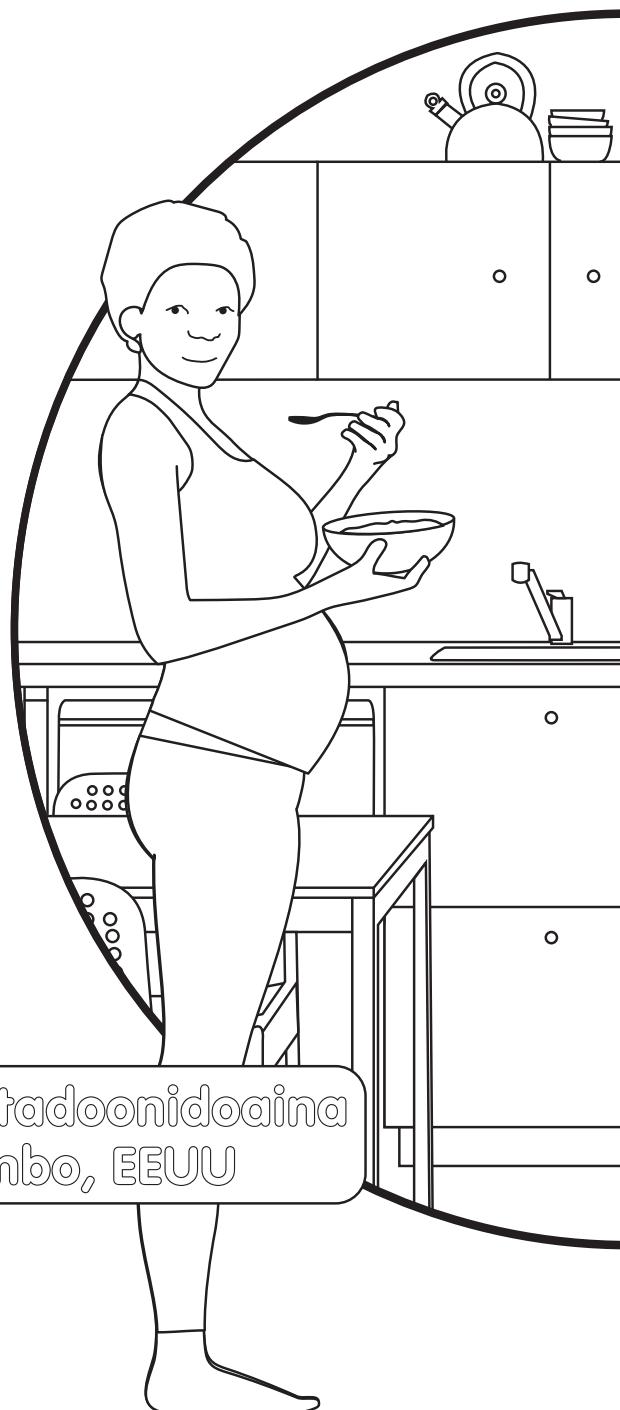


BIMI TSINKIABO

Jaa bimi tsinkiaibo, jaskaribi jaa jaska akin onankanaboribi yoina akaibo- bimi tsinkiaboo, jatona jawekiakai niimea yoabo itan jaton jawekiati iki mesko keska baritia winotaitian.

Yoabo akin peokanamatian 10 000 baritia, jatibi jonibo ikatia bimi tsinkiabores.

Jaa rama bimi tsinkiaboo iki jaton ani poko ikain besheshoko yora xenayabo ani jema joeyabo ikainko jaa jonibo winoabo mesko keska shenayabo.



Estadoonidoaina
ainbo, EEUU

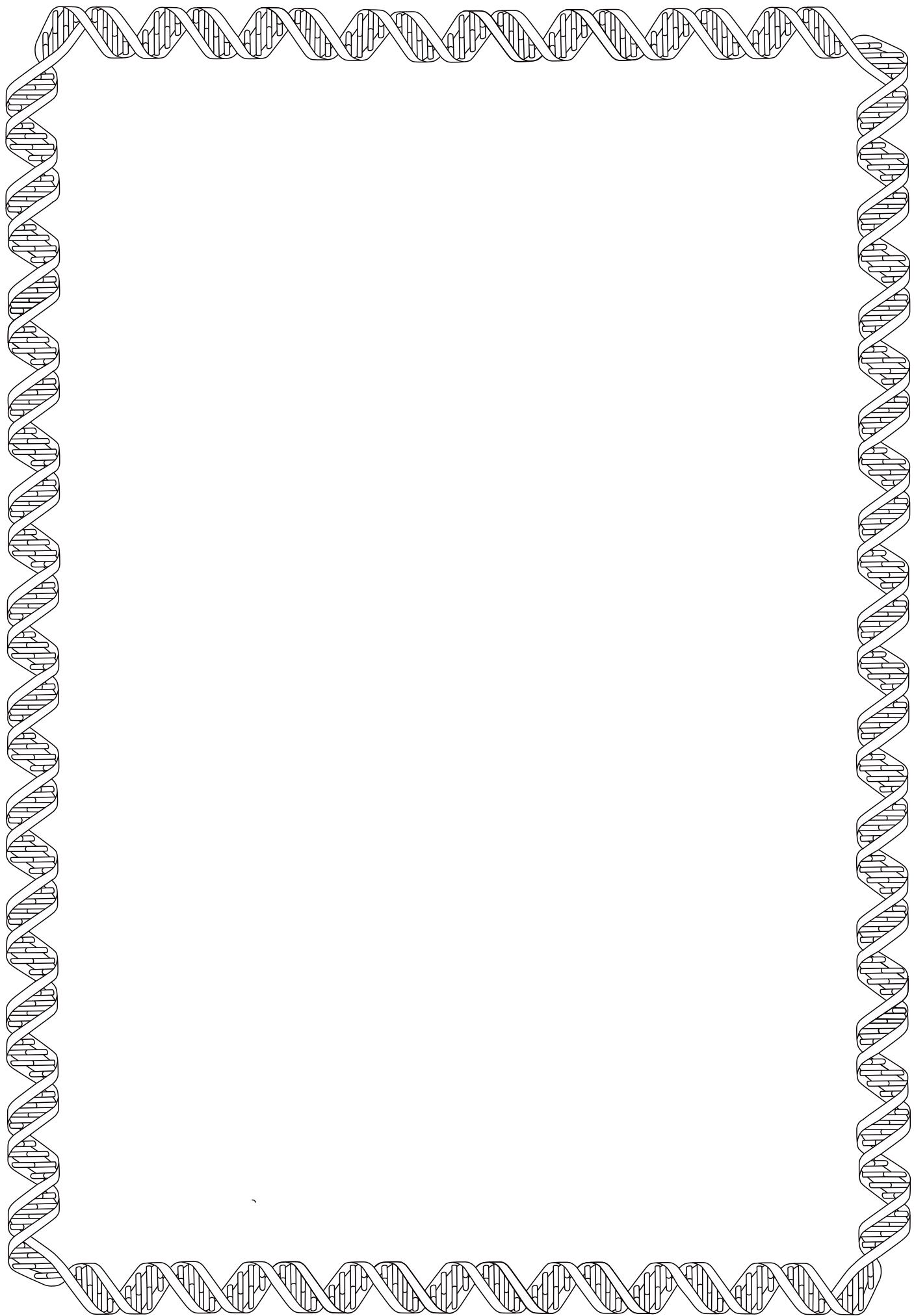


ANI JEMABO JOEYABO

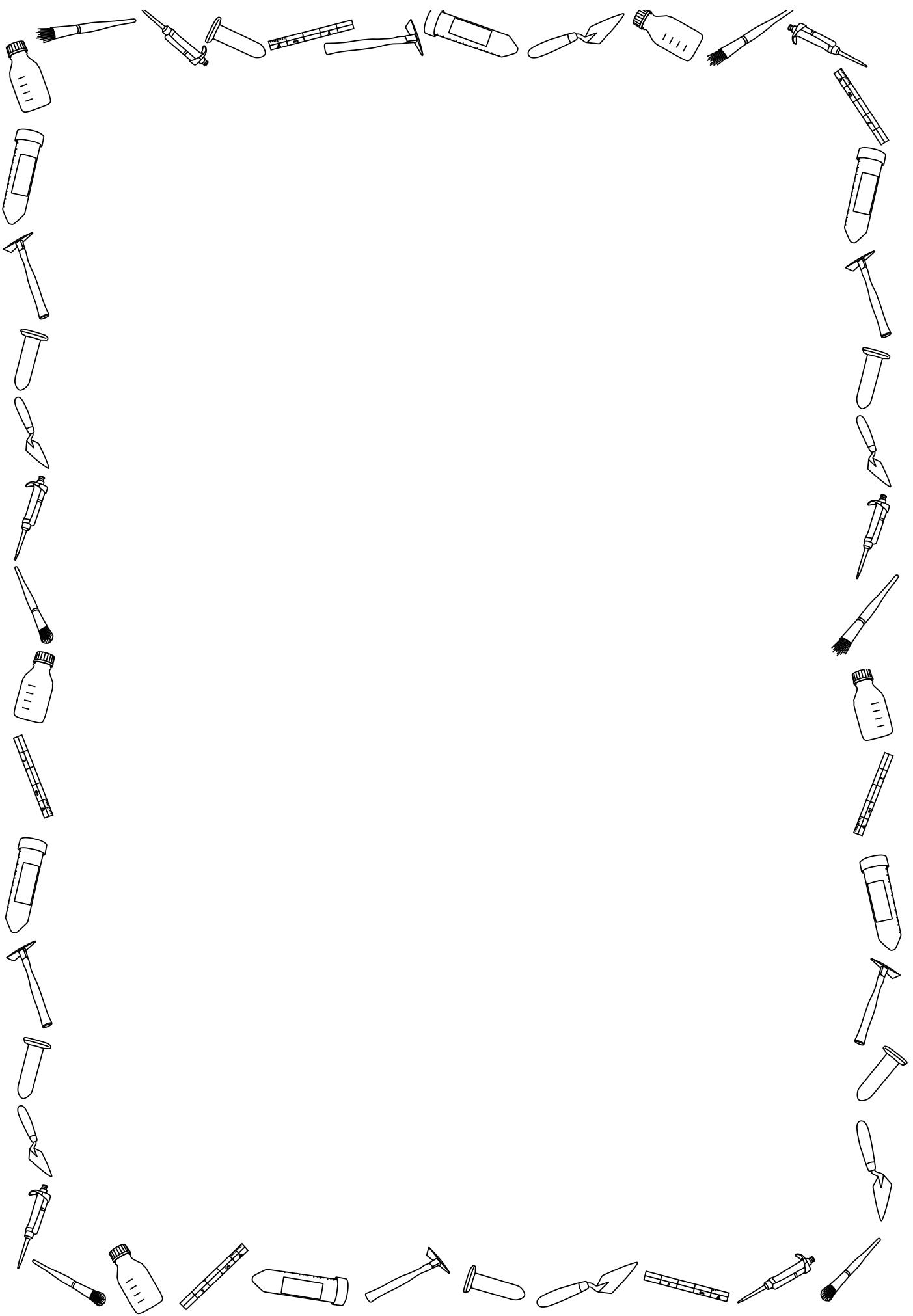
Ani jema joeyabaonra jawekiakai mesko keska yoabo itan nato yoabo akaibo riki ichama jonibo janbiribi merayatabo westi iki natobo.

Jaa mecanización, benxoati itan icha tsamaxon benxoati jaa iki jato jawekiamakin jetetima kopi nato yoabo procesadobo jaska akanai, itan nato yoabo akanai rankin ochobo jawekiakanti kopi.

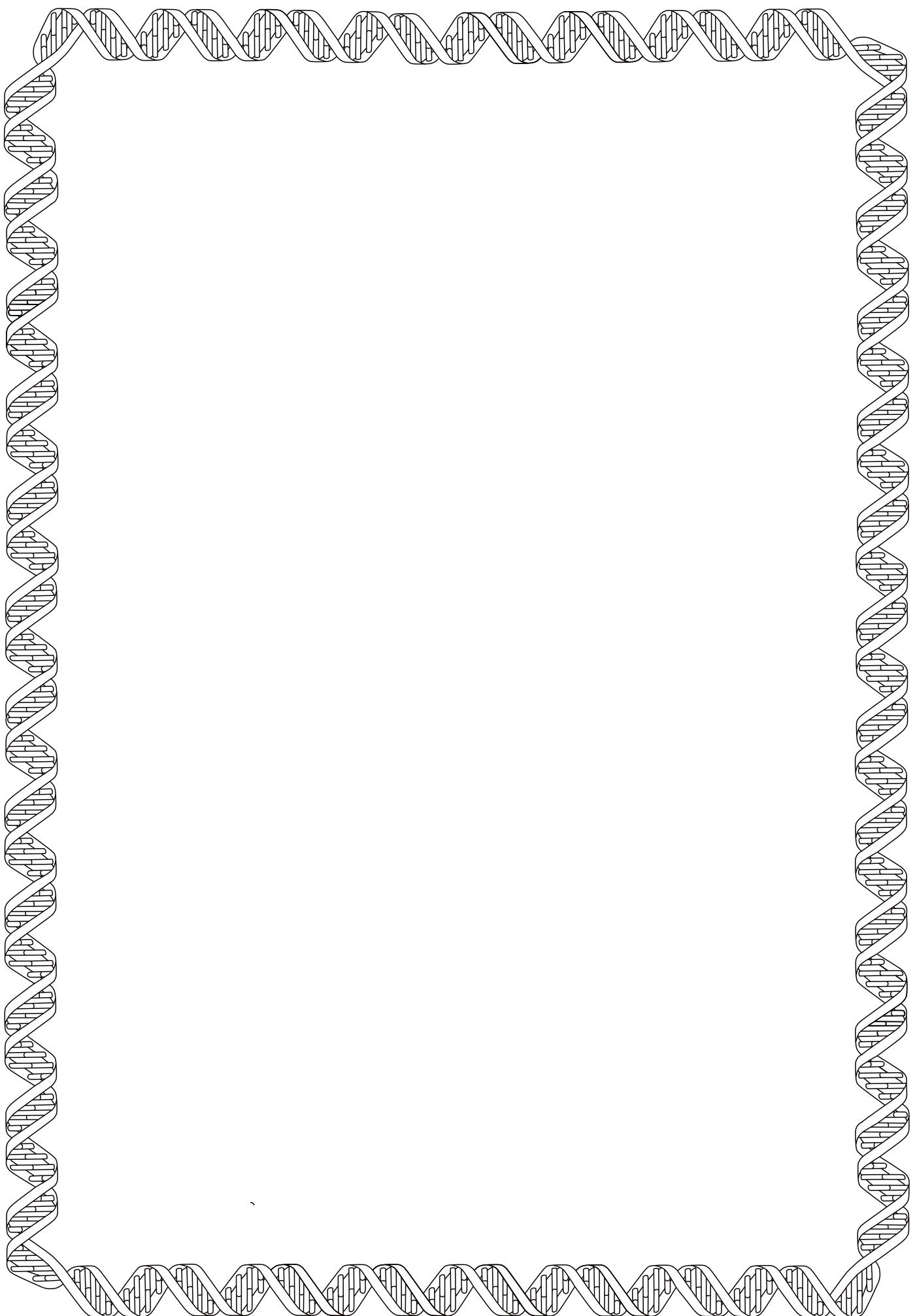
Nato ani jemamea joeya jonibora ramatian jaya iki nato microbiomas ikaxbi meskoiramabo, janra akai koshishamama jato imakin nato mesko ikachama ani isin soo iti isinboki.



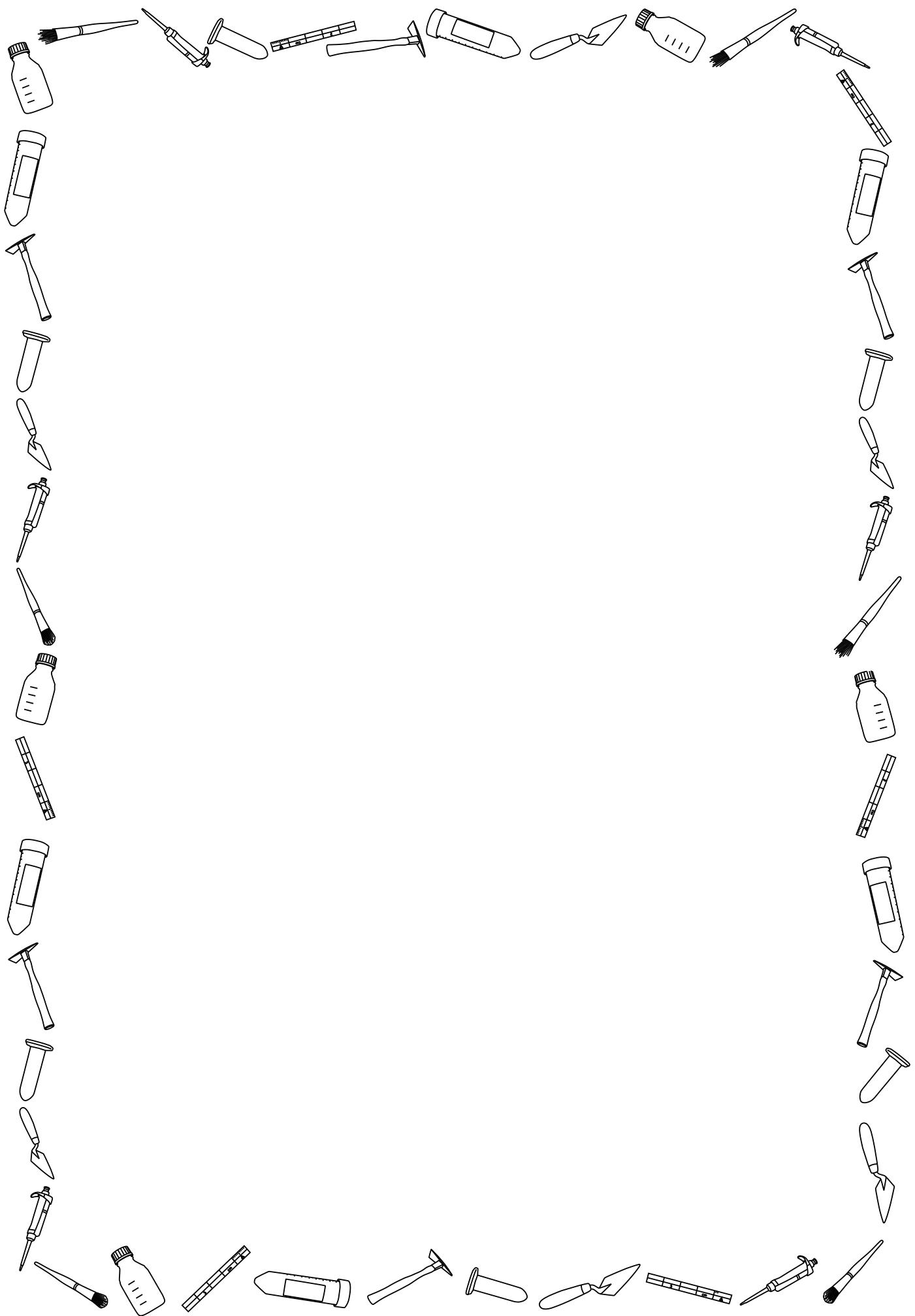




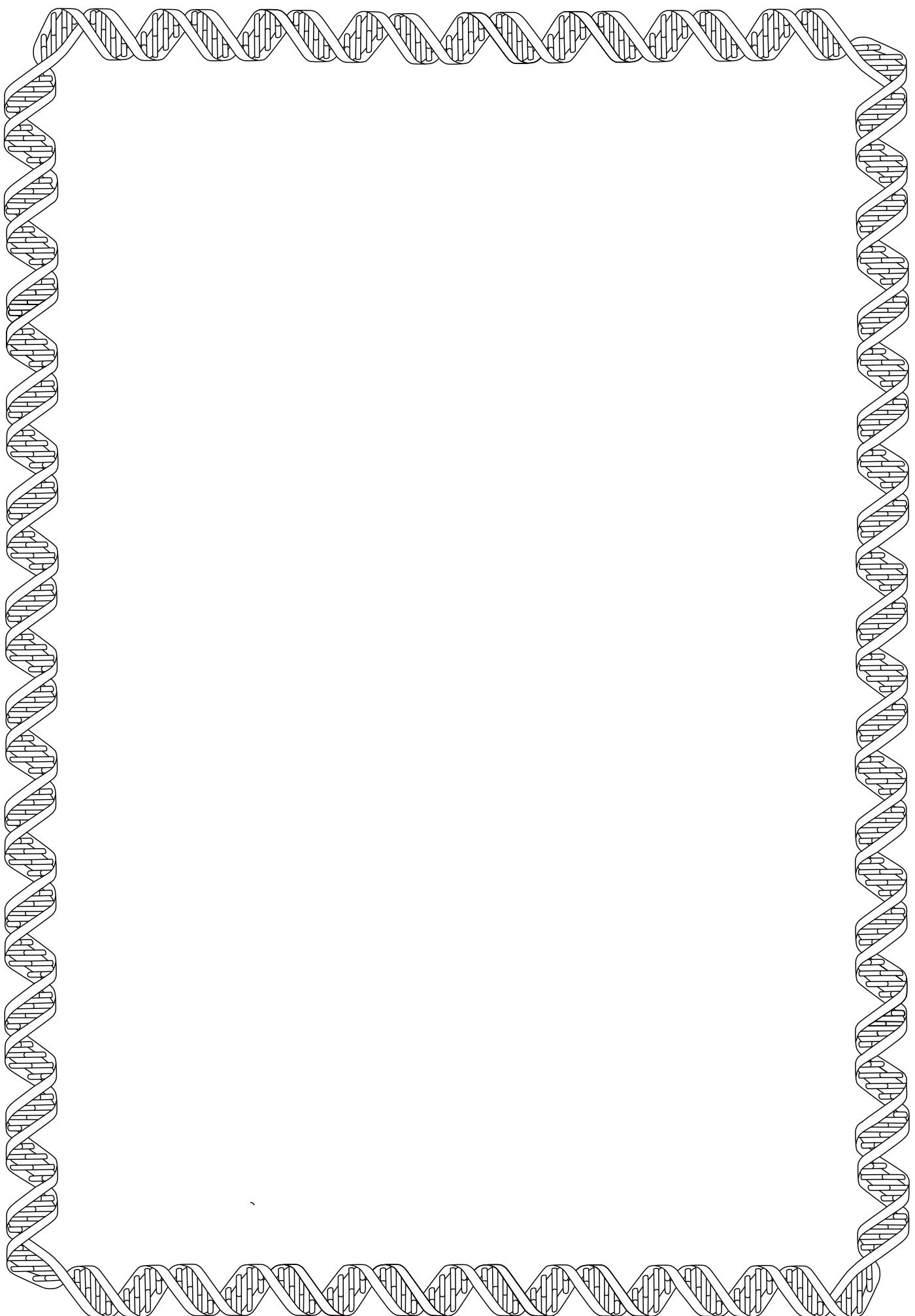














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Mesko tee aki kai

NATO ARQUEOLÓGICA ANI ONAN SHINAN IKATINKO Kirika jaa sikati

¡Axewe arqueólogobo itan bioarquelogobo keskati jatibikeax teti moatian noa winataboki ika yokabo yoinoxon! Noa chibanwe onankinki tsoaborin noa itan jaweki non onanai, joni pikota benatian Jainxon chami isin medieval kaman. Onanwe nato moatian joni kawantanaibo itan radiocarbono nin tsimes axon onanti. Onanwe jawekeskaxonki científicobaon sera aribai moatian jawekiakatikanaibo nato restos vegetales microscópicos ikaixon. Benawe wetsa jaska axon ina akatikanaibo itan waka xoma jene chorish akana jawekiati pekao iki nato ciencia. Benawe isinbo itan moatian ani isinbo itan onanwe moatian microbioma jonibaona.

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ikanoa científico-baon pikoa.

Jan Shipibo-Konibo join yoiya Tony Cristhian Ramirez Nunta

