

Neivagetasirira anta

OGARI

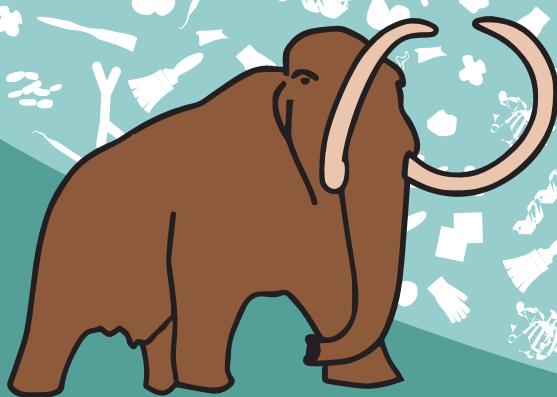
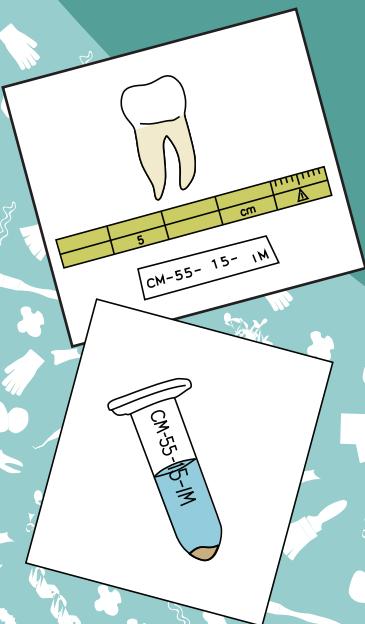
YOGOTANTAKARIRA ASHI

PAIRANIPA GETIRIRA

Oka sankevanti inti
shintaro yoga:

Vairontsi

Futura/o
bioarqueólogo/o en
periodo de entrenamiento



Sankevanti ashi intiritakera
Instituto Max Planck de
Antropología Evolutiva

Neivagetasirira anta

OGARI

YOGOTANTAKARIRA ASHI

PAIRANIPAGETIRIRA

Oka sankevanti inti
shintaro yoga:

Vairontsi

Futura/o
bioarqueólogo/o en
periodo de entrenamiento



Sankevanti ashi intiritakera

Instituto Max Planck de
Antropología Evolutiva

Ogikoneatakerora oga: Max Planck Institute for the Science of Human History

Vetsikakerorira Christina Warinner

Mutakoigakeririra Jessica Hendy

Contribuyentes:

Zandra Fagernäs

Jessica Hendy

Allison Mann

Åshild Vågene

Ke Wang

Christina Warinner

Ogari oka sankevanti ashi intirivagetakera onti ovetsikashitunkani ashi irogotantaigakemparora kañorira
govageigatsirira

Gishonkakerorira niagantsiku yoga:

Anibal Kategari Iratsimeri



Attribution-NonCommercial-ShareAlike

CC BY-NC-SA

DOI: 10.17617/2.3434745

2022



TYANIRA NAROEKI

Yogaegiri sankevantakoigiririra
pairanipagenirira intiegi yoga
gotasanoigakerorira kameti irogoigakera tyara
ikantaiga itimaigira pairanipagenirira.



Inake tsamairintsku

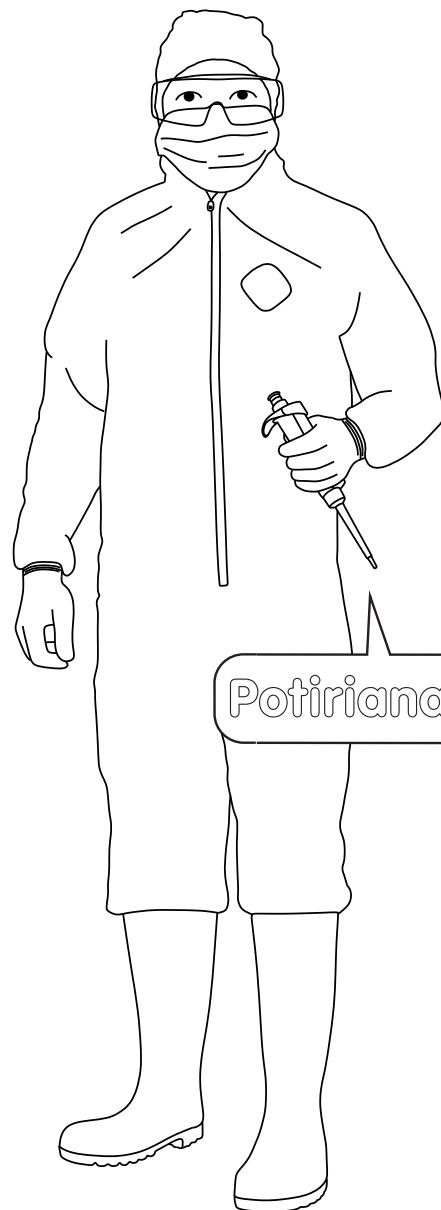
Yogaegiri timaigatsirira intiri sankevantakoigiririra
pairanipagenirira onti yantavageigi maganiroegi
ashi ikigakovagetira timaigatsira pairani
iramanakerora isankevantakotakerora anta
yantavagetira.

ogari tavagerintsi onti ikogake ineaigakera irashi
ikitataigara, pairanipagenirira (ineanakera itonki
irashi inkenishikunirira) Aikiro ganiri ikonogiro oga
potsitasetankitsirira.

Onagetira yantavagetantaigarira

Anta itsagavageigira ADN pairaninirira, yogari
govageigatsirira onti irantavageigake onakera
saagitetake, aikiro irogagutakempa imanchaki,
isavovakotakempa irako, intiri igiti, ganiri
itsagatiri oga ADN otyaengapagerira.

Yogaegiri govageigatsirira aityo tovaiti
irantantakemparira ontiri ineantakemparira
irashi timaigatsira pairaninira.





IKITAREAKOVAGETIRA

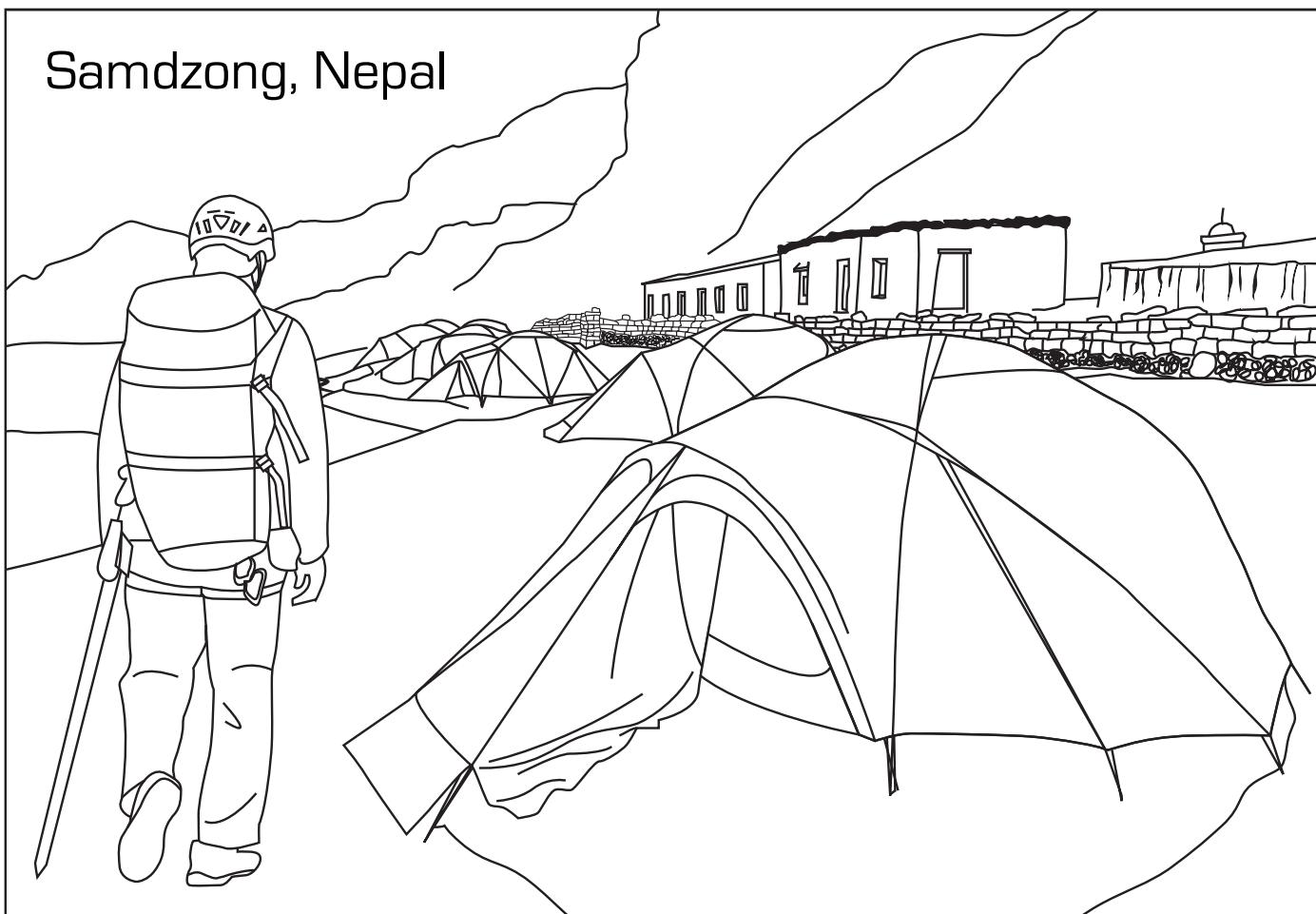
Yogaegiri tavagetirorira ashi pairanitira intiri sankevantakoigiririra iageigamatake samani parikotipage kipatsi ashi isankevantakotakerora tyara ikantaiga itimaigira pairani. Ogari ikigantaigarira otimake anta parikoti ikogakotaka pashani kameti iragaveakeniri irogonketakemparora oga nantakerira.

Pine okañotakara anta Himalaya ikogakotaka inevigakerira kameti iriatakera irantavagetakera.

NATIONAL TRUST FOR NATURE CONSERVATION Entry Permit (ACA/MCA/GCA) <i>Schedule - 2 (Relating to Sub-Rule [1] of Rule 19)</i> Receipt No. 0281630 Date: Entry Permit No. Full Name: Date of Birth: Passport No. Nationality: Purpose of Visit: Entry Permit Issuing Authority Signature Full Name: Designation:		NATIONAL TRUST FOR NATURE CONSERVATION NTNC ACA MCA GCA ENTRY FEE RECEIPT TICKET NO.: 0281630 Date: 15/05/2023 Received by _____ from _____ in _____ Passport No.: _____ Date of Birth: _____ Authority Name: CHHERPA SHAI JUNG Nationality: _____ Authorized Signatory: _____	TOURIST COPY <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
---	--	---	---

Issued by _____
On No. _____
by _____ Officer

Samdzong, Nepal



Irogotakotakerira iraipage

Aikiro ikantaigiro okiteritakera aitsi, antari yogotakoigirora ontitari ikamagutakeri iraiku anta aiñora yaniake. ikanti ario kara apatota mantsigarintsi ontiri oga isekapatsa irotari iragake iragaveake irovetsikakerora inkantakerira tyara ikanta itimaigira pairani matsigenkaegi.

Ittonki ontiri irai

Ogari ittonki ontiri irai aityo mani onakera DNA, ashi irogotantakemparira tyara iponiaka pashinipage kipatsi, aikiro iragaveake irogotakerira ashi iroki, igishi ontiri itovaigantarira. ogari irai yoga kamaigankitsirira iragaveake ineakerira iraiku DNA oga mantsigarintsi gamagakeririra.

Residuos en ceramica

Oga Isekaporoki iragaveake ineaerora anta igovitenakiku kañorira proteinas ashi inchatoshii intiri timatsirira inkenishiku, ontiri paio avisake otyomiatakeria operki oga yogaigarira isekaigara

Magatiro oka iragaveake ineaigakerora tyara inkantaiga itimaigira pairani.

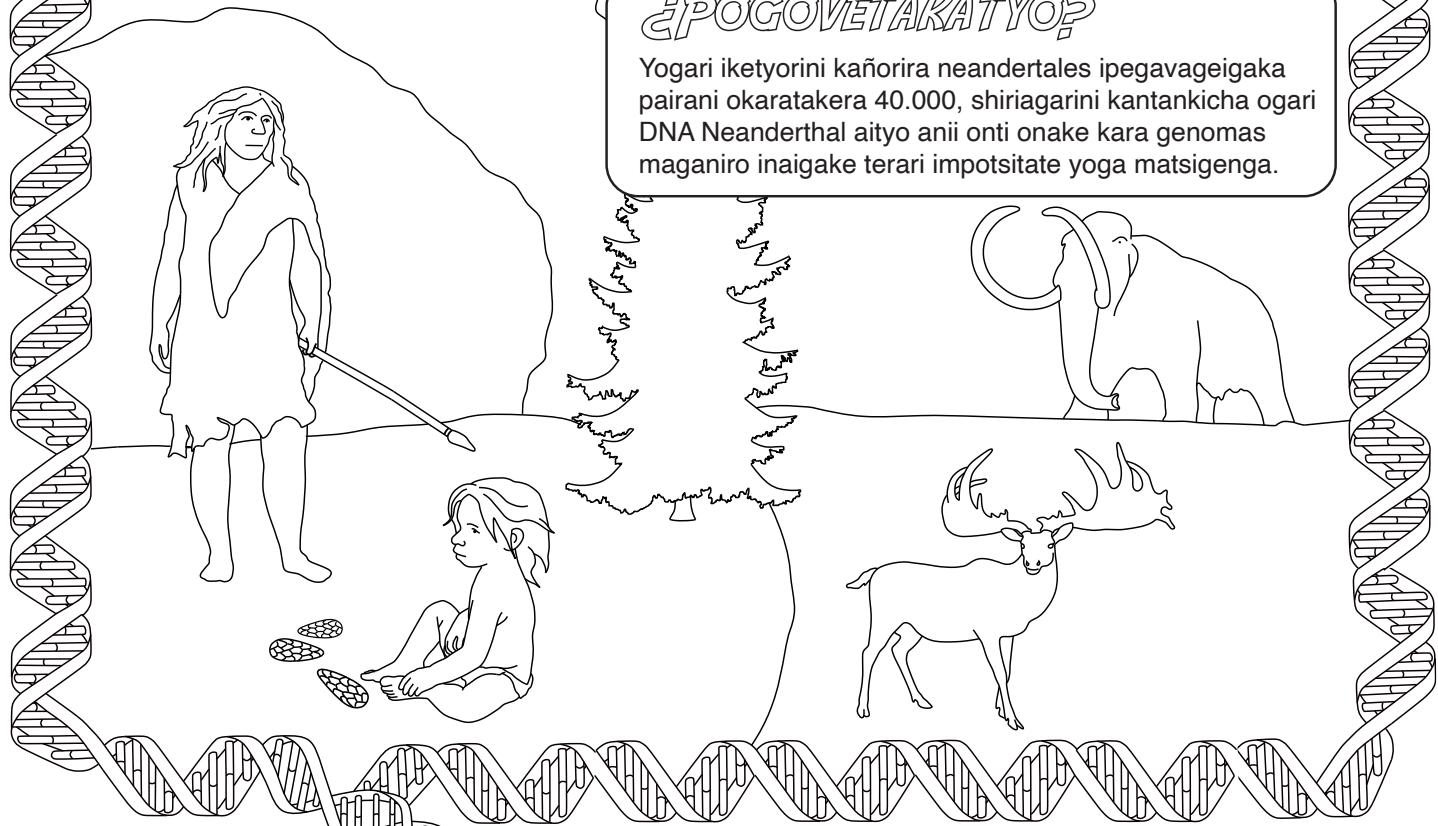
TATOITA NOSANKEVANTAKOIGAKE

Yogari tavagetirorira ashi pairaninirira onti yantaigake oga irogotane paio avisake okametitakeria kameti irogikonetaerora tyara ikanta itmaigira pairani.

Magatiro oga yantantarira iragaveake irogikoneataerora pairanipagetirira intagati ineakerora oga itonki, irai ontiri igovitenaki.

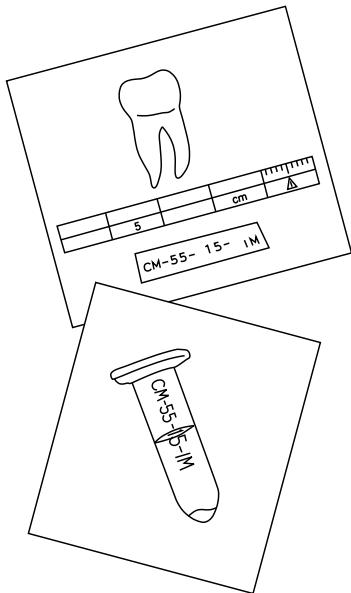
POGOVETAKATYOP

Yogari iketyorini kañorira neandertales ipegavageigaka pairani okaratakeria 40.000, shiriagarini kantankicha ogari DNA Neanderthal aityo anii ontionake kara genomas maganiro inaigake terari impotsitate yoga matsigenga.



NIAKOIGAKERORA TYARA PONTAIGAKA

Ogari DNA pairanitirira amutakai tovaiti kameti goigakera irirorika virentiegite yoga choenitakoigakairira: yoga neandertales.



Ikantatigaiganakara

Antari isankevantakotakerora oga irai ontiri itonki yoga timaigatsirira pairani iragaveake ineaikerora tyara ikantaiga itimaigira iketyorira tsitikigakai maikari maika tyara ikantanakara koneaiganakera kañoigakempara maika.

ISHIGAIGANAKARA PAIRANI

Ogari ADN pairanitirira inoshikakotakerira itonkiku ontiri iraiku iragaveake irovetsikakerora tyara ikantaiga pairaninira ishigaiganakara. Antari ikonogakerora magatiro isotopos iniakotakerira ashi ishigaiganakara iragaveake isureigakemparora tyara ikantaiga pairani itimakera.

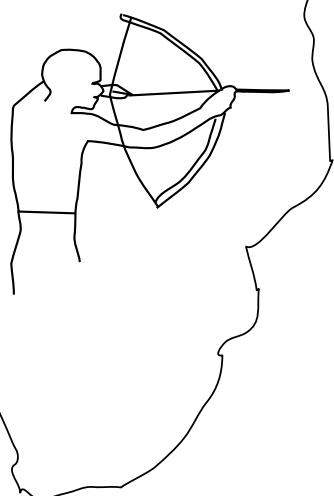
Escitas, Asia Central
Edad del Hierro, 700 a. C.



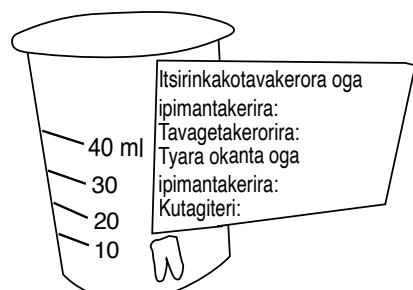
POGOVETAKA TATOITA?

Ogari radiocarbo o 14C onti isotopo tera opitagantsite onti onoshikairo oga tampia magatiro shinvenashi aniangatairora.

Yogari ivatsapage onti yogakero oga radiocarbon anta ivatsaku ariotari yogarora oga shinvenashi. Ogari radiocarbon ario avisanaake kara. Yogotakerora akati onake oga 14C onti oga pairanitira ario kara inkantake iroroventi ario onavetaka kara.



Ipimantakerira ashi radiocarbono

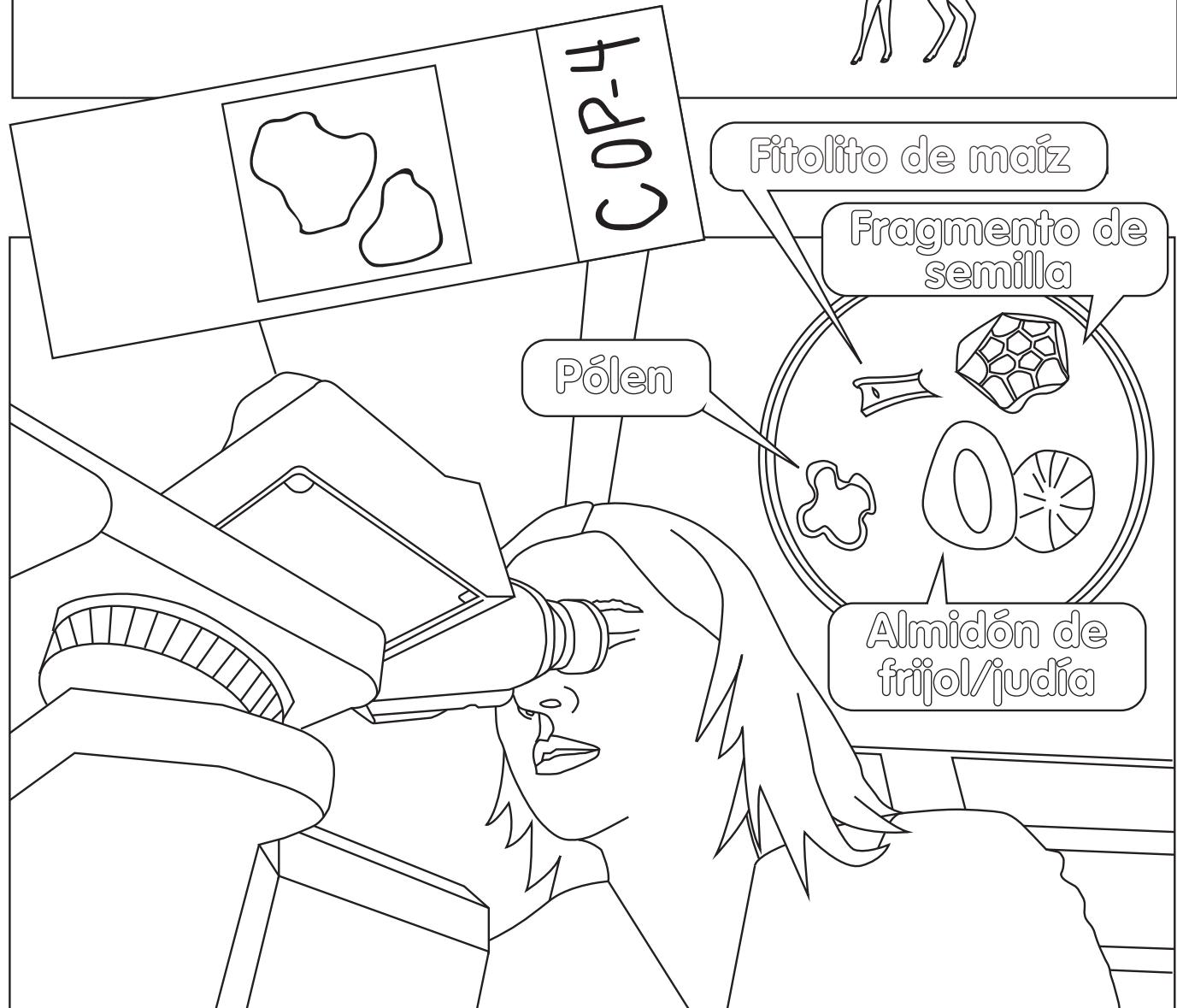
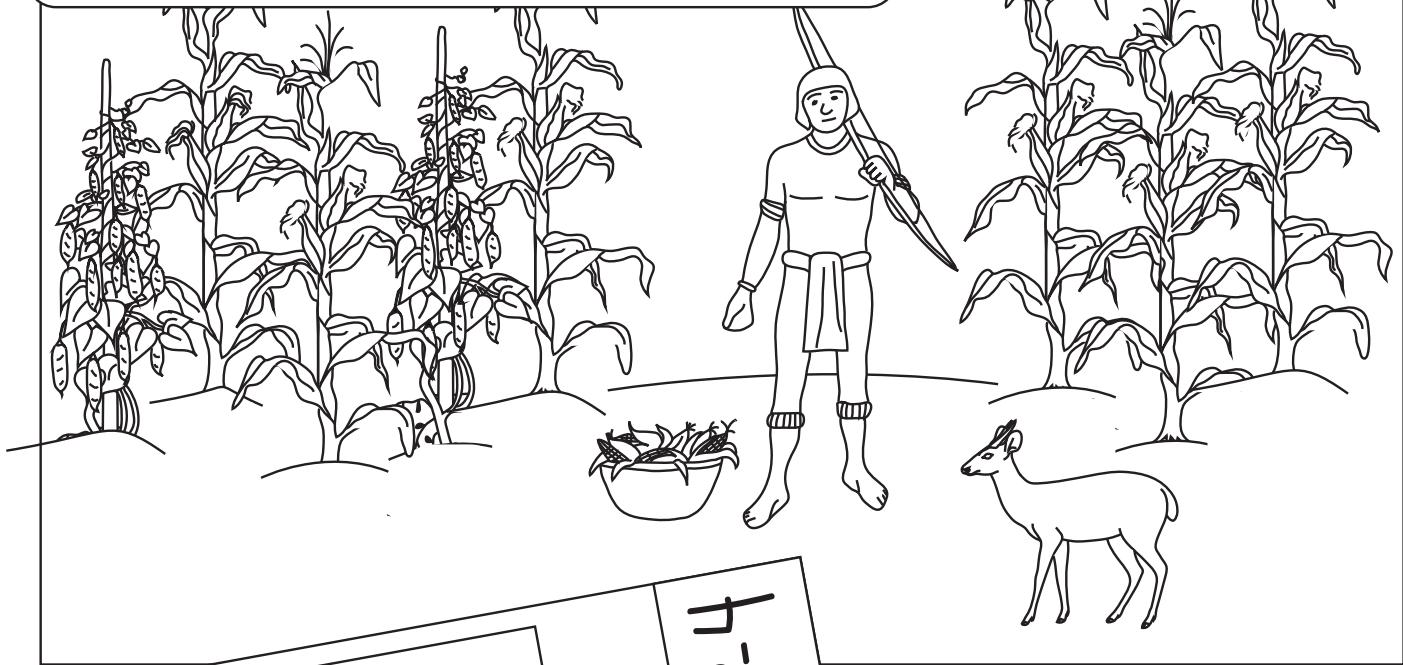


Ogari ipimantakerira ashi radiocarbon onti oga irogotantakemparira akati inaigake yoga ipirapage ontiri inchatoshi onavetakempatyo 40.000 pairanityo kara shiriagarini.

ITIVAGEIGARA PAIRANI

Yogaegiri govageigatsirira ontí ineantakemparo microscopio kameti inekerora oga isekaporoki anta igovitenakiku ontiri iraipageku yoga matsigenka. Ogari inekerira oka microfosiles iragaveake inekerira tatoita yogavageiga pairaninirira cañorira mayas Mesoamerica anta inakera 2000 shiriagarini.

Copán, Honduras
Maya clásico, año 300



DOMESTICACIÓN

Avisavagetake 10.000 shiriagarini, yogari matsigenka ipankitake ivankire aikiro ipirataka ipira inegintetakeri kara. Iketyo yogivatake yoga ivacane ipiratakarira irirotari shinchi yametaka aikiro itovaigavagetanake kara. Ipiratashitakari ashi irogaemparira, itsomiato ontiri imeshina.

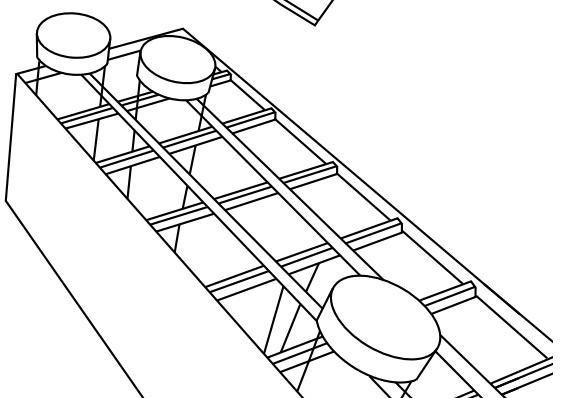
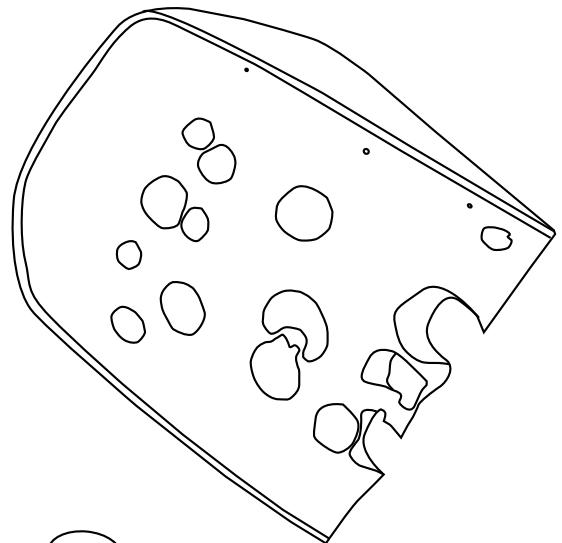
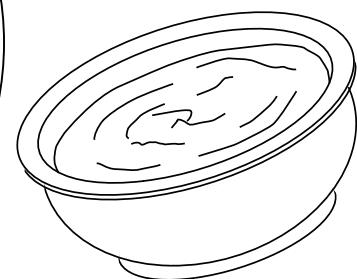
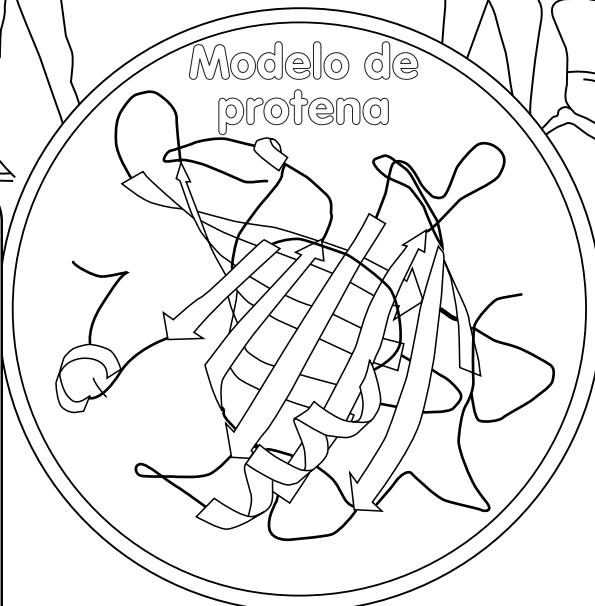
¿YOGOVETAKATYO?

Yogari ipiratakarira yoga ivacane onti yagakeri inkenishiku ipaita bisonte europeos (aikiro ipaita uros) onti itimi inkenishiku imarane kara maikari maika ipeganaka tera inkoneatae. Antari ikoneatakera pairanitira yoga ivacane onti iponiakotaka anta peninsula de Anatolia maika opaita Turquia.

Oponiakara oga yogaigarora itsomiato

Ogari oponiakara oga yogitovaigakerora oga itsomiato tera onengani, yogari tavagetirorira pairaninira onti yantavagetantaiga oga spectrometria kameti inekerora oga proteinas timankitsira kara itsomiato kuru irashi yoga timaigatsirira pairaninira, ari kara iragaveake irovetsikaerora arioventiratyo yovikagaigarao oga itsomiato.

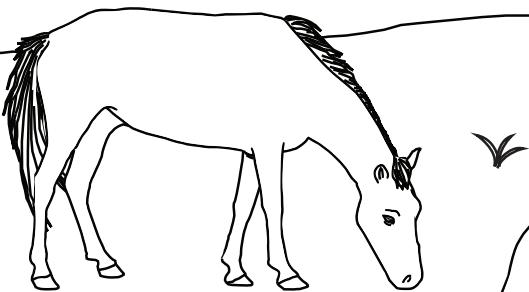
Modelo de protena



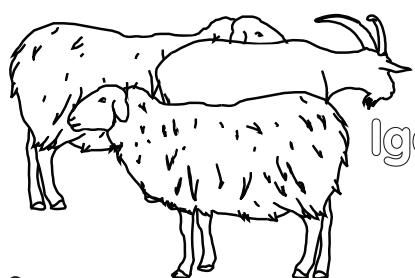
Mongolia

Itovaigavageti ipiravageigakara anta itimaigira Mongolia, ikonoganakarira yoga igavariote, ivakane, ovisha, ivakane imarapageni intiri igameriote. Yogari shintaririra timaigatsirira pairani irerotari noshiagairi yoga itsomiato paniropage ipira.

Igavariote



Ovisha

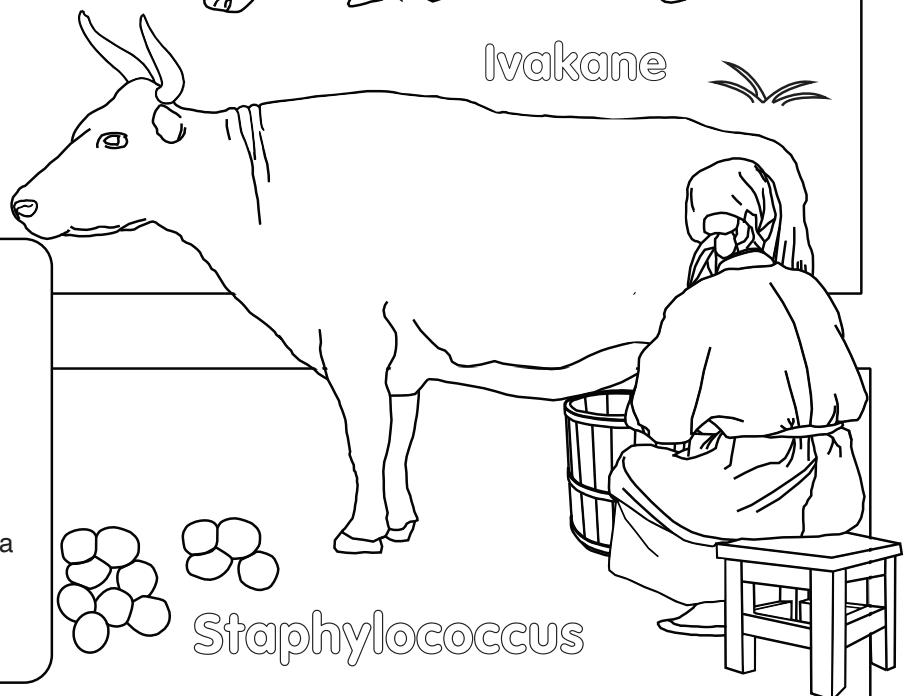


Igaverate



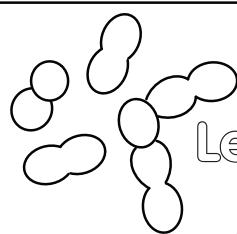
Maniro

Ivakane

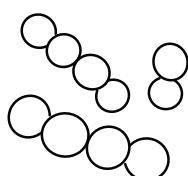


ISEKATAIGARIRA OGA ITSOMIATO

Ogari isekataigarira oga itsomiato irerotari shintsitagaigakeri anta itimaigira Mongoliaku.otimagetanakera oga ikamaguvegeiganakera yoga tavagetirorira pairani yogoigake oga yogavaveigara oponiavageta pairani ariorokari onake 3500 pairani shiriagarini.



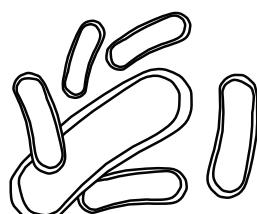
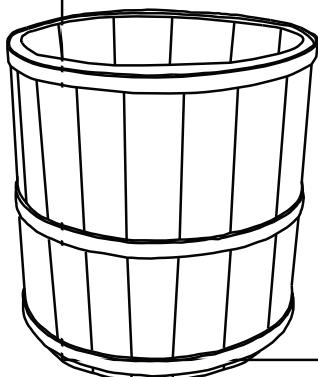
Leuconostoc



Lactococcus

Microorganismo oga itsomiato

Ogari Microorganismo cañorira oga bacteria ontiri levaduras, okametivagetaketyo kara ashi irovetsikaigakeraoga sekatsi kañorira oga Yogurt, mantequilla, intiri queso, ontiri tera arisano oneasanotengani kañorira oga aaruul, (requesonseco) ontiri oga airag (cerveza de leche yoga igavariote) oga Mongolia.



Lactobacillus

ann hilianas in
de cedonone decantare: qui tonum
aut acridia

MANTSIGARTNSTENGA OKETYORTRA VTSANANKITSI

Ogari itonki, iraipage, ontiri oga ikiterinaitakera aityo kara onake oga ineantakemparira ashi tyara ikantaiga ishintsitashigakerora oga mantsigarintsi yoga pairaninirira. Pine oga DNA ontiri proteinas nakintsrira iraiku ario omutakeri yoga govageigatsirira ashi irogotakera yoga matsigenka agakeri oga mantsigarintsi gingivitis ontiri otsonkara aitsi.

Dentib⁹ p. Bantua

entes fin
grecos d
mit⁹ q̄ si
odente
omni
apost
diuid
res i
deutu ut
dicit⁹ q̄
sunt den

tes fin⁹ q̄ m̄ sed in plantaria in ossib⁹ mar
illar⁹ i menti quib⁹ dani i adiab⁹ mār⁹ i sūt
m̄ en
pe
m̄ a
q̄ r
g

color qm̄ oculis dūnū
bi capiat nec capor qm̄ fan
nec dūnum⁹ molle quod
nat⁹ ē tamen aliud est q
false est explicare non
sup. Ioseph⁹ Iūnos vñ
in iutum⁹ affiat: omnis
sugger⁹ ebimūtest
Vnde afferenda deo in
tes in medio ciuitatis in
sedite opib⁹ mientes insim
pētione cūtis iant: si
amūdētōm⁹ portan

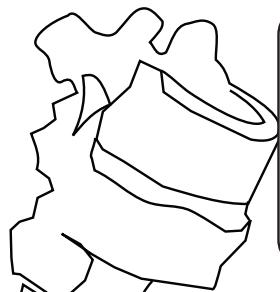
Omme Bonum

Ogari Omne Bonum onti sankevanti otsirinkakotunkanira Margarito onakera siglo XIV irashiegi tyara ikanta itimaigira yoga Europeos medieval, ario onake kara onagetira sankevanti Real Britanica. Ario otsirinkakotaka kara yogavintantaigira aitsi. Ontiri ikamagutirora yoga gavitantatsirira kameti inekerira ganiri imantsigaigi pairani onakera oga Edad media



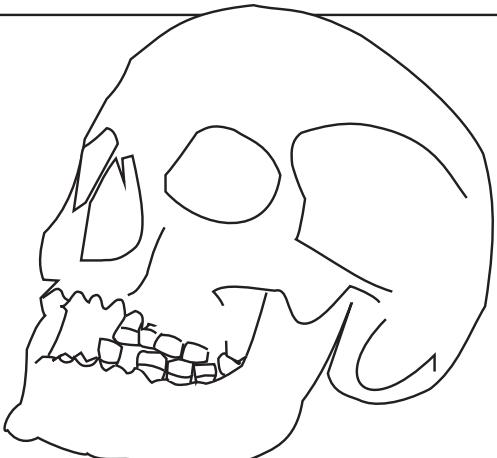
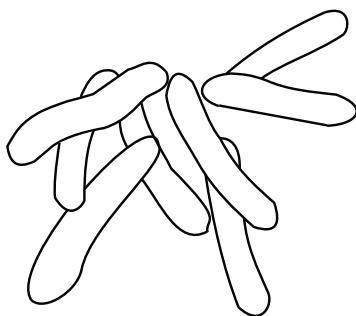
quod priores plu...
nū remanī scripib⁹ de flangendū

tantis. ... p. ilā
a dulciora sup me



TISHIKONTSIENGA ONTIRI PATSAGANTSİ

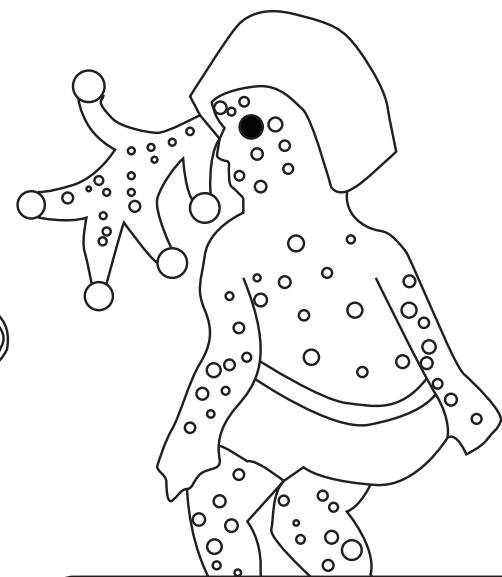
Ogari tishikontsienga ontiri patsagantsi inti maengatiro yoga bacteria cañorira: Mycobacterium tuberculosis y Mycobacterium leprae. Ario okañovakagaka ogimantsigantira aka tonkitsiku ontiri DNA pairo ogavagetakeri ontonkitagakerira, ario kara yoga govageigatsirira iragaveke irogikoneatakerora oga itimaigira ashi imantsigaigira pairani.



Mycobacterium leprae

LA COCOLIZTLI

Aityo mantsigarintsi tera onengani opaitaka Cocoliztli inti neakero yoga Aztecas, ogamagavagetake ikarate 60% intiri 90% timaigatsirira pashini kipatsi oga México ariorika shiriagarini oga 1545 ontiri 1550. otyaengakona, oga DNA shintakaririra oga mantsigarintsi Salmonella enterica paratiphy, ario ineakero kara iraiku yoga ogamagakerira



Salmonella enterica

Dr. Schnabel

Yogaro gaviantantsirira yogavintavetavakarityo yoga matsigatankitsirira onakera oga siglo XVII onti ichokoitaka oshigakero igit tsimeri ashi ganiri okiri tampia.

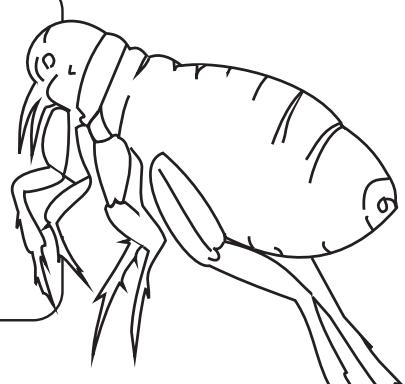


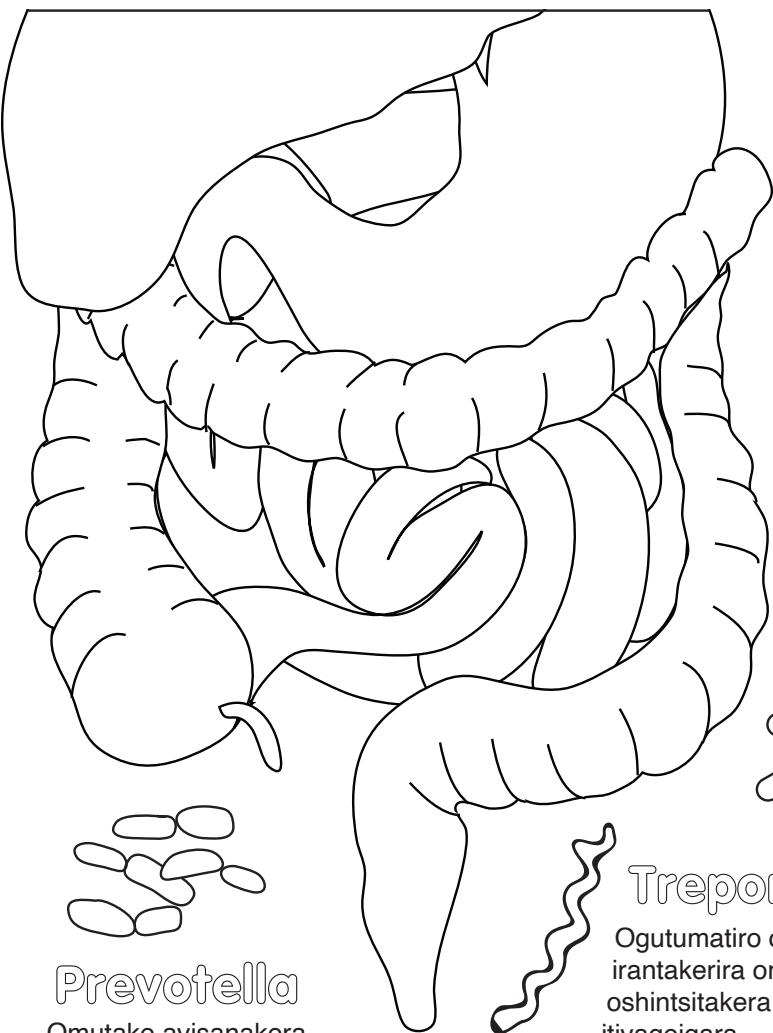
Códice en Cruz

Ogari oga sankevanti Azteca ariorika onake oga 1550 ogikoneatakerero tyara ikantaiganaka imantsigaigakera ashi oga Cocoliztli, ianatitanake, ishongorekitanake aikiro yovoatanake tovaiti.

PAENGATANTATSIRIRA

Ogari paengatantatsirira inti makero yoga bacteria Yersinia pestis, inti gitovaigiro yoga pulga matsigatankitsira kantakani itimira inira sagari. Yogari matsigenka yatsikakerira yoga pulga ipaenkatakeri oga paengatagantsi opaita bubonica. Oga paengatagantsi irotari gamagatakeri yoga postariegi (1346-1353) ogamagavateka tovaini timaigatsirira anta europaku arioni pairani.





Prevotella

Omutake avisanakera
isegutoku oga shinvenashi
timatsirira oshitsaki

Treponema

Ogutumatiro oga
irantakerira ontiri
oshintsitakera ashi
itivageigara

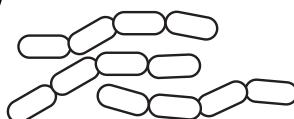
Helicobacter pylori

Itimake isugutoku
iragaveake iragakagakerira
oga ulcera ontiri cancer

Bifidobacterium

Yamutakeri yoga ananeki
iranchromiatakerira yoga
itsomiato

Faecalibacterium



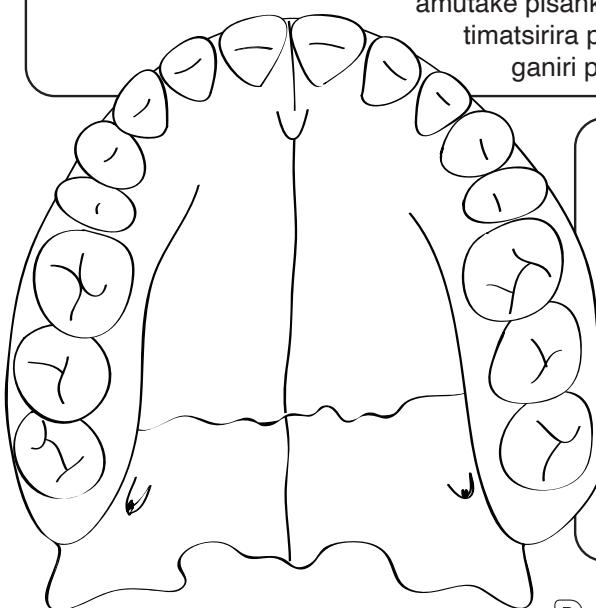
Yogitovaigiro oga
iseka ashi oga celula
iramporetsakutirira

MICROBIOMAS PAIRANINIRA

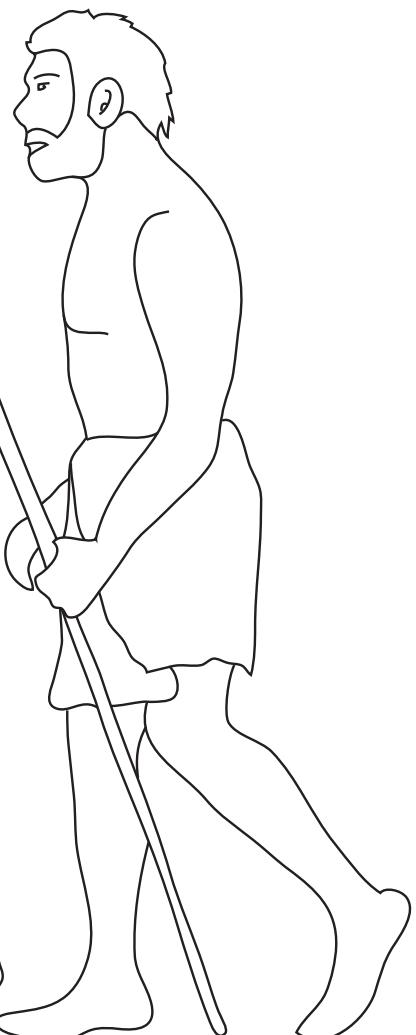
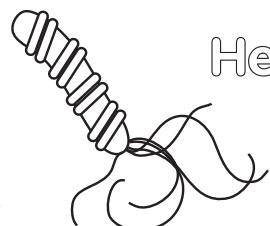
Ogari vatsaigi onti otimantakarira oga tovaiti kara oga celula
bacteriana, apatotakara opaita microbioma. yogari bacteriana timatsirira
amporetsaku amutaku ogavisavakera sekatsi oshintsitakairia ashi
tatoitarika mantsigarintsi. Ogari bacteria timatsirira pimeshinaku
amutake pisankakera, ogari bacteria
timatsirira pivaganterku amutake
ganiri pimantsigati.

POGOTAKE TATOITA?

Yogari govagetatsirira
isankevantakotakero
irogotakerora oga irai
ontiri paleoheces impote
irogotakerira yoga
microbiomas pairaninirira
kameti irogotakera
tatoita oponiantaka
oga matsigarintsi.



Porphyromonas

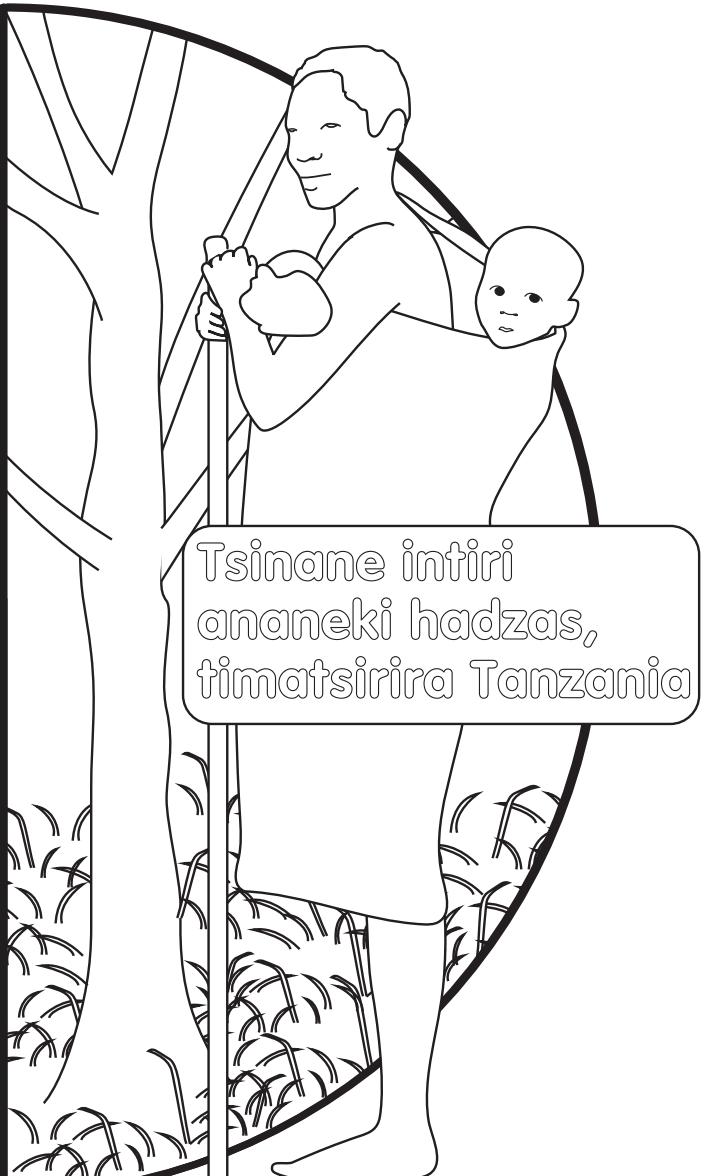
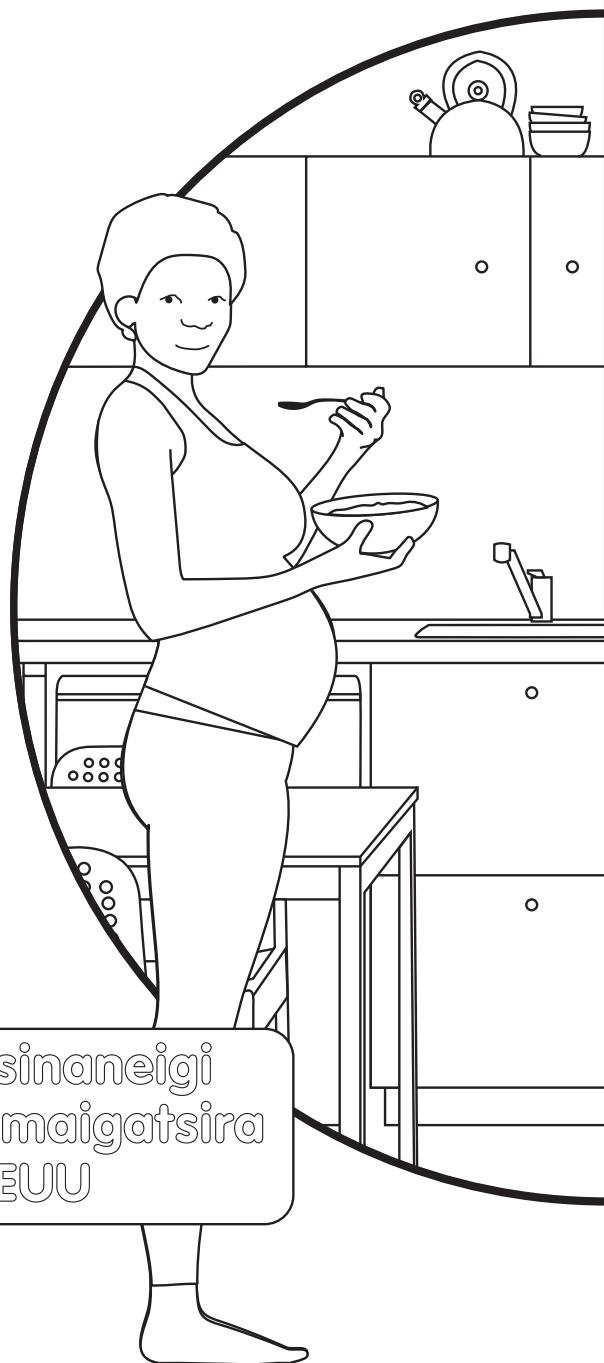


PATOGIVAGETATSIRIRA

Yogari patogivagetatsirira aikiro ipaita covintsari-patogitatsirira, yogagetaka inchatoki inkenishikutirira ogari itimaveigara ontí ipanpiatake oga okampiagetera inkenishi.

Pairani tetyara intsitigero oga tsamairintsi ario karanki okarate 10.000 shiriagari maganiro matsigenka intiegi patogivageigatsirira.

Yogari patogivagetatsirira maika aiño yoga microbiomas iramporetsaku yavisake itimakera timatsirira anta apatotara pankotsi tesano intime.

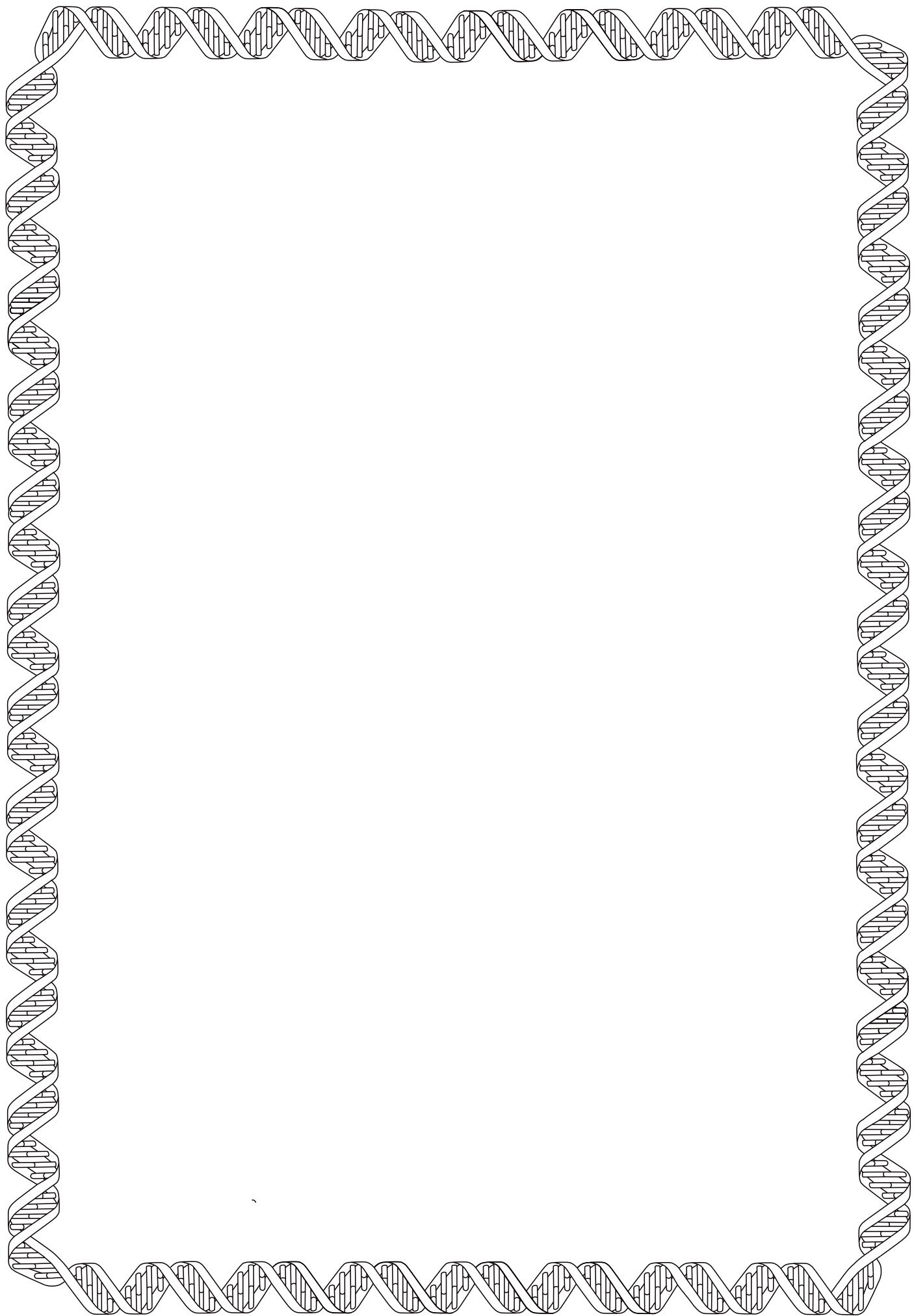


APATOTAKARA PANKOTSI ITIMAKOVAGETANAKERA

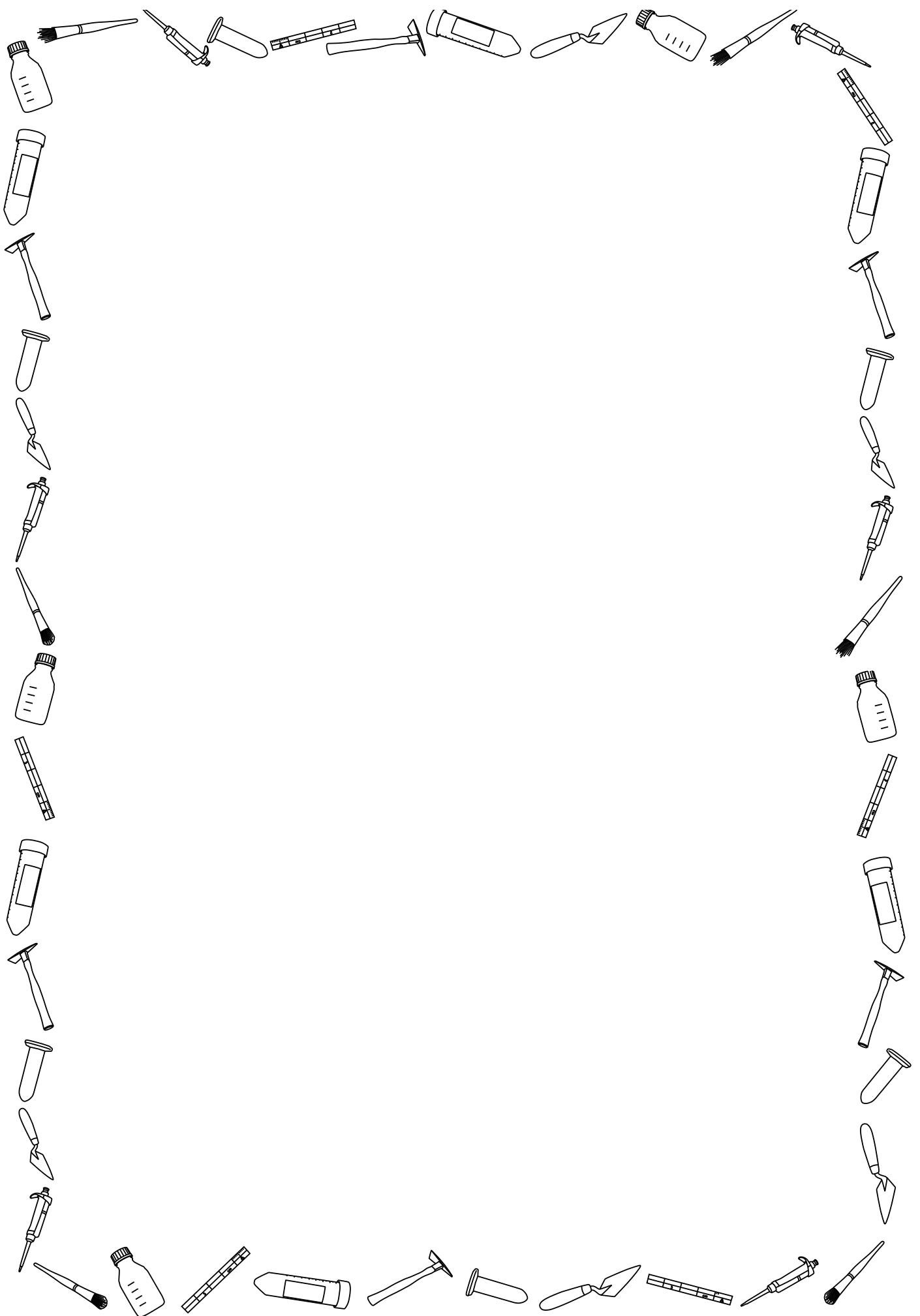
Apatotakara pankotsi itimakovagetanakera ontí yogaiga oga ipankivagetirira, otimanake otovaigavagetake irorotari ipiriniventake kantankicha tesakona intovaise.

Antari yantavagetantakarora oga shigakomentontsi, yorogakerora, ontiri inegintetakerora irotari manakeri kameti intononkakerora impote iramaiganakerora parikotipage ario kara iragaveake irogaigakemparora.

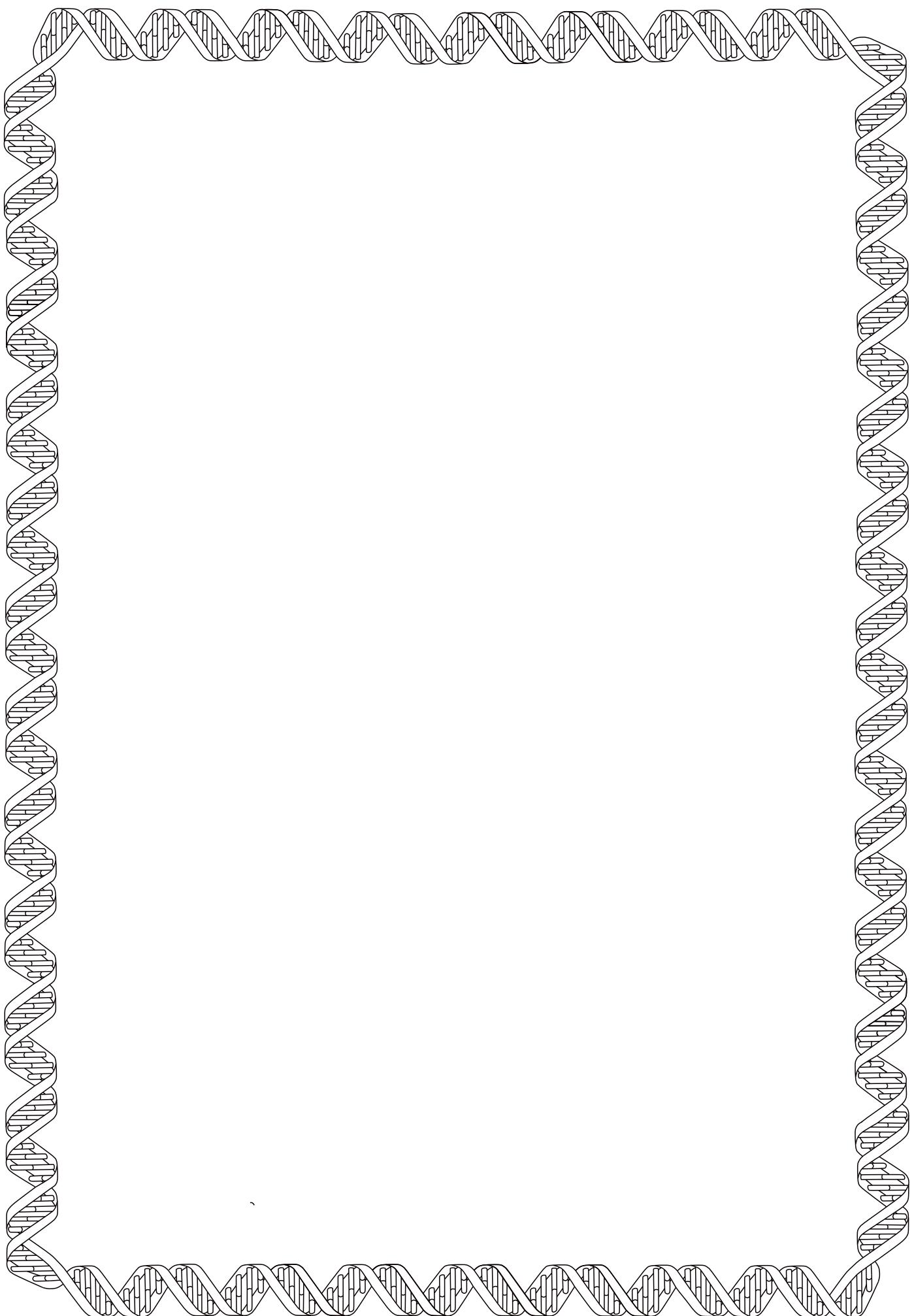
Yogari timaigatsirira apatotara pankotsi itmakovageiganakera ario pinkante aiño yoga microbiomas tesano intovaise, irortari okoneatira matsigarintsi iketyo mantsigatanatsi kañorira oga inflamatorio cronica.



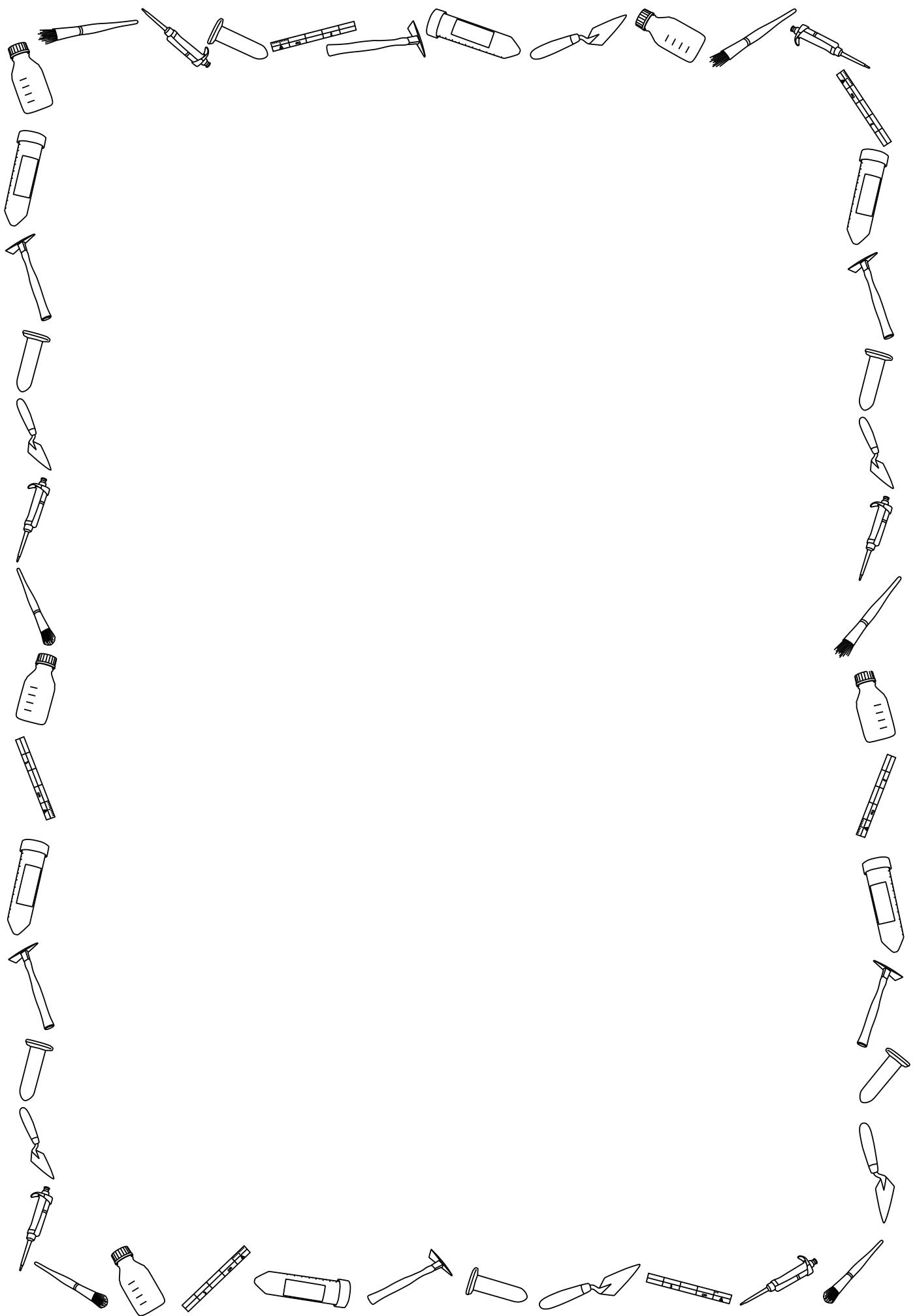




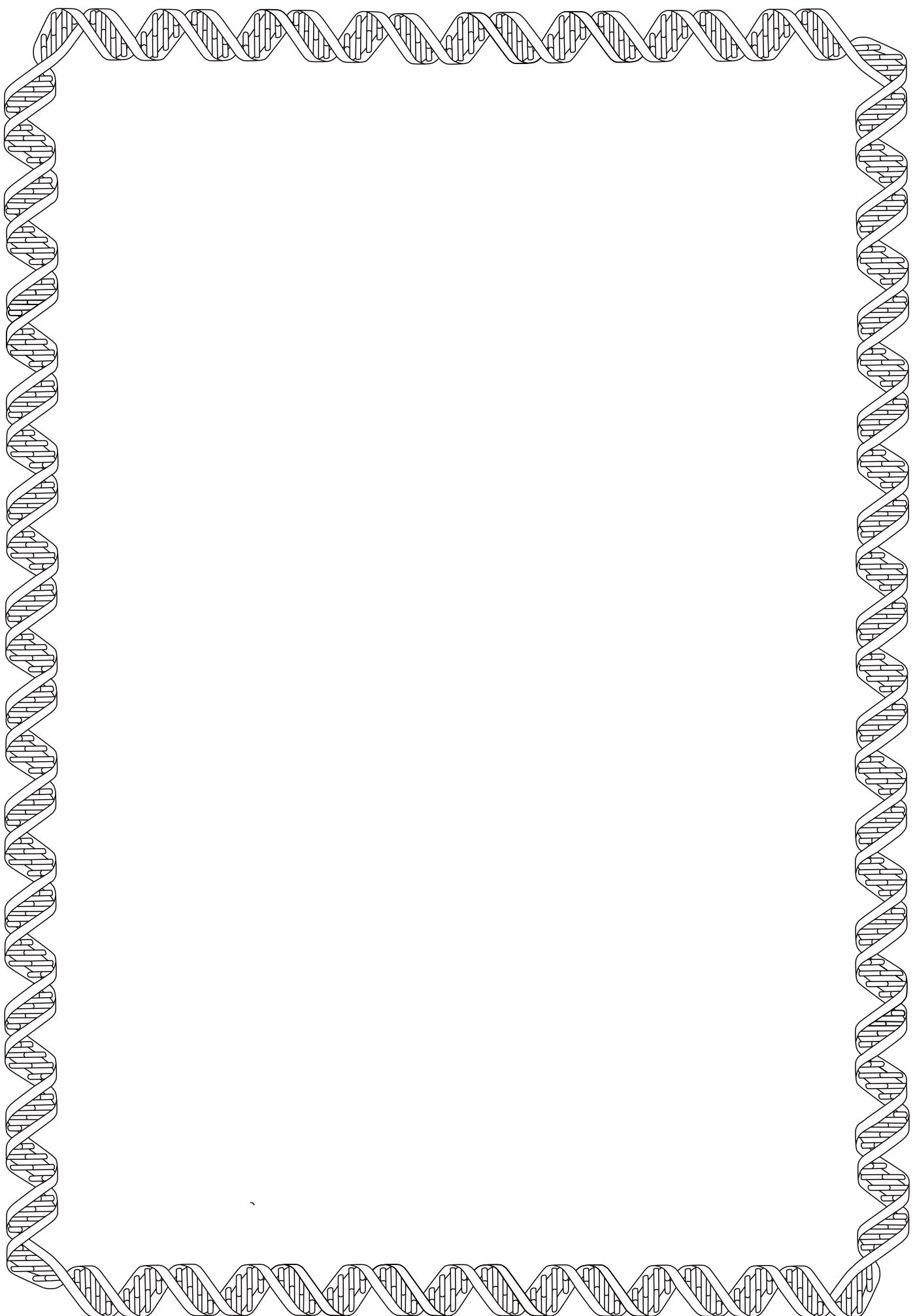














Yogotagantantaigarira Max Planck sankevantakoirira



Neivagetatsirira anta **OGARI YOGOTANTAKARIRA ASHI PAIRANIPAGETIRIRA** **Sankevanti ashi intirivagetakera**

Pogotakera pinkatakerira yoga kigakovagetatsirira timagetatsirira pairani intiri sankevantakotirira ario intentavakagaiga kameti inkamantavakera tatarikoita ikemakotavakeri ashi itimaigira pairani tyara poniaigaka! Manpiaiganakena anta nanuvageigakera tyani naroegi tatoita nosankevantoigake itanakara ikonetakera yoga matsigenka ario okaratapake otimakera oga paengatantagantsi medieval. Pogotakera ashi ishibaiganakara pairani ipimantakerira oga radicarbono. Pineakera tyara ikantaigiri yoga govageigatsirira irovetsikaerira ashi itivageigara pairani intagati ineaerora oga irinchatoshite microscopicos. Pikogakotakera ashi oga tyara ikantaigakero yagaigakerira ashi ipiravageigakara ontiri irogotane ashi inekerora oga otimakera itsomiato. Pinkogakera oga mantsigarintsipage ontiri pairanitira kameti pinekerora oga mantsigarintsi paitankicharira microbioma oketyosanorira timankitsi irashi matsigenka.

Vetsikaigakero yoga govageigatsirira ashi oga yogotagantantaigarira Max Planck ashi sankevantakoigiriorira iketyorira timaigankitsi.

Nogishonkakerora matsigenka naro Anibal Kategari Iratsimeri.

