



Boa Tarde

Joao Neto

m
Farmáci



Museu da Farmácia

Tesouro Universal da
História e da Museologia
da Saúde



MUSEU

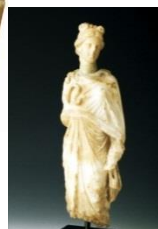
Uma Emocionante Exploração das diferentes Culturas ligadas à História da Farmácia, da Ciência e da Saúde



MUSEU da FARMÁCIA



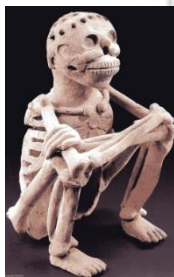
Europa



América do Norte



América do Sul



Africa



Norte de África



Oriente



Asia



A nossa História



Dois espaços, uma Colecção, Lisboa - Porto



Lisboa



Lisboa

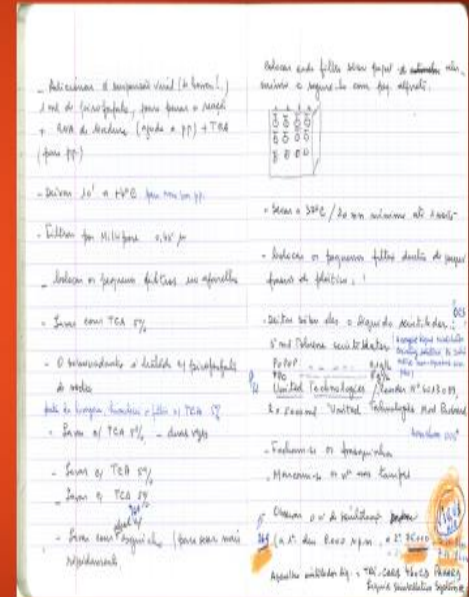


Lisboa





THE EXHIBITION



Porto



Porto

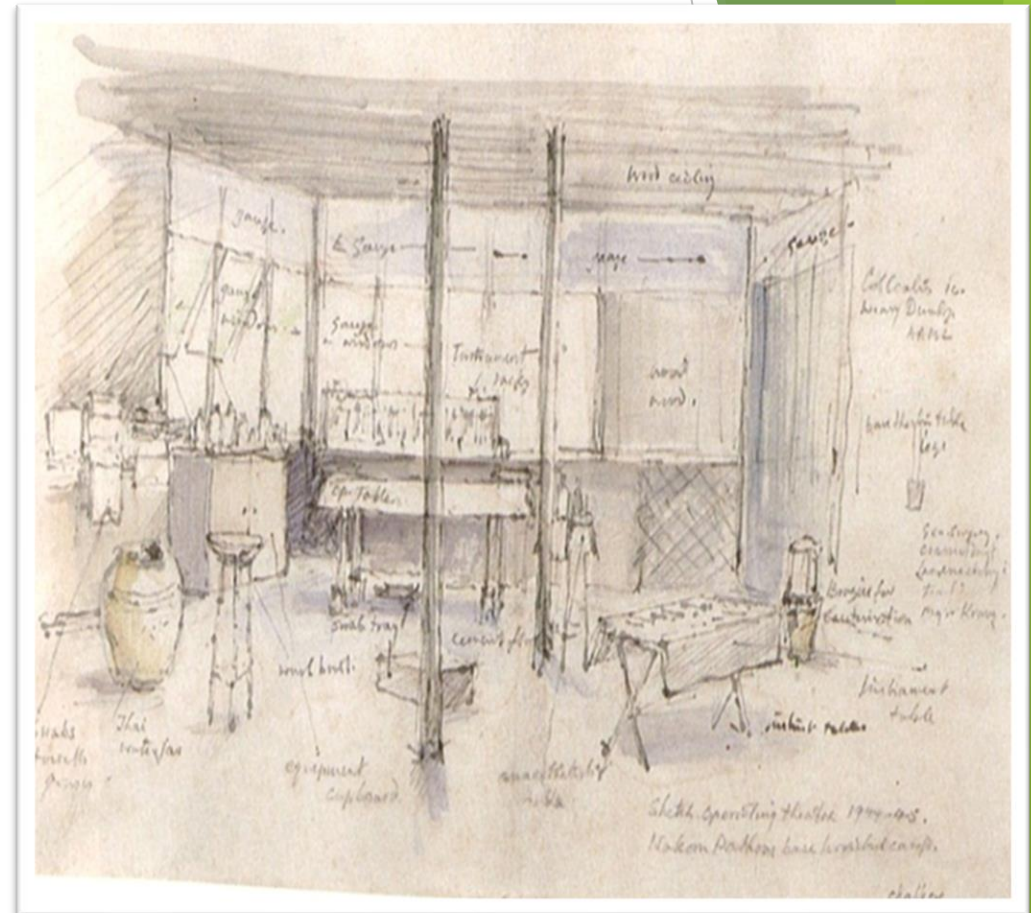




Exposições



O Museu e o Cinema ...

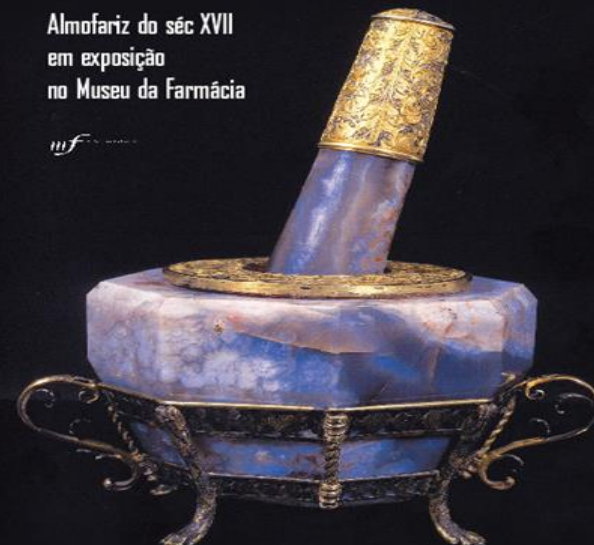


O Museu e o Cinema



THE MONUMENTS MEN OS CAÇADORES DE TESOUROS

Almofariz do séc XVII
em exposição
no Museu da Farmácia



Objecto pertencente à coleção Rothschild, que foi roubada pelos nazis da casa dos Barões Louis e Alphonse Von Rothschild na Áustria, em 1938.

Louis Rothschild é preso e mais tarde a pedido do Duque de Windsor é libertado e autorizado a sair da Áustria. O irmão, Alphonse Rothschild consegue escapar e fugir para Lisboa, graças a Aristides de Sousa Mendes.

Durante a II Guerra Mundial, toda a coleção foi conservada na mina de sal de Altaussee, na Áustria, até à ocupação da mina pelos aliados em Maio de 1945. O depósito de arte foi apreendido pela unidade do Exército dos EUA (The Monuments Men) e o resgate das obras de arte começou.

Após o final da II Guerra Mundial, a coleção Rothschild foi considerada património do governo austríaco e exposta no Museu Nacional da Áustria, que só a devolveu aos herdeiros da família, em 1999.

Os herdeiros de Alphonse Rothschild recuperaram então a coleção e colocaram-na em leilão na Christie's de Londres (Julho de 1999) tendo o Museu da Farmácia adquirido este almofariz.



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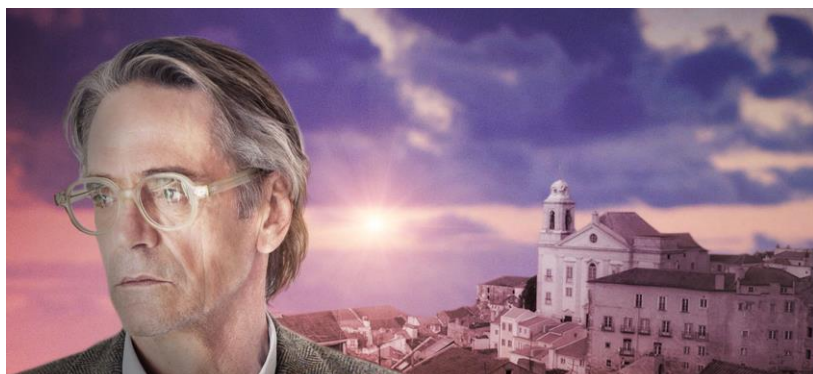
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BRANDT
 Seite 111

CONFIDENTIAL

1. NAME: BRANDT, KARL, DR.

2. DATUM UND ORT DER GEBURT:
 JAN-8-1904 MÜLHAUSEN/Elsass

3. JEZIGE ADRESSE (auch Geschäftsadresse) in DEUTSCHLAND:
 BAD LIEBENSTEIN / THURINGIA

4. KURZER LEBENSLEUF SEIT 1938 (einschl. Unversitätstudien):

5. DATUM DES EINTRITTS IN DIE W.S.D.A.W.
 MARCH - 1932

6. RANG UND GEBIETE IN DER W.S.D.A.W.
 NONE

4) Professor d. Chirg. Universitätsklinik
 Bad- since 1934. til now

5) arzt für die Begleitung in
 Reichs Chancellory since 1934 til
 OCT - 1944

6) General Kommandeur des Führer für
 Sanitätsdienst für - ... 1. AUG. 1944
 HL Aug. 44

7) Reichskommissar für Sanitäts- dienst
 für - ... Aug. 44 - April 45.

CONFIDENTIAL
 Hauptstadt



Expedição ao Everest

29 de Maio de 1953

BRITISH MOUNT EVEREST EXPEDITION, 1953

(Himalayan Joint Committee of the Royal Geographical Society and the Alpine Club)

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ROYAL GEOGRAPHICAL SOCIETY

1 KENSINGTON GORE

LONDON SW7

6th November, 1952.

Dear Michael,

Further to my letter of last Thursday.

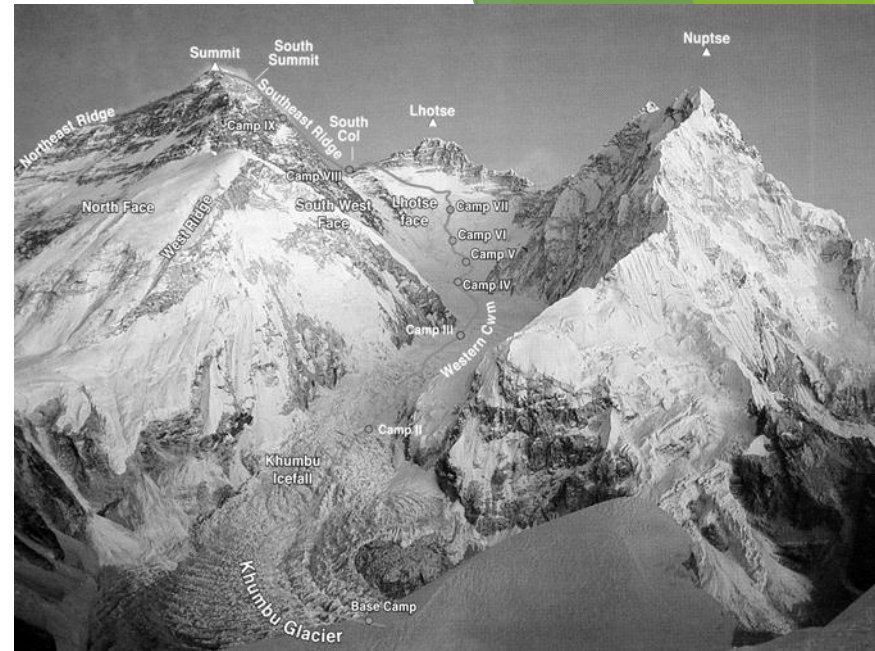
I am asking the whole Party to come here to a briefing and discussion at 2.30 p.m. on Monday 17th December. I very much hope you can come, as this will be a particularly important occasion, being the first meeting of the team (less the New Zealanders).

I shall be asking various people to speak on their own subjects; I hope that you will be prepared to raise any medical points, including instructions to us all regarding arrangements for vaccination, inoculation, dental treatment, etc. I suggest that you may be able to arrange for these to be done centrally here in London, but you will be entirely free to decide on the method.

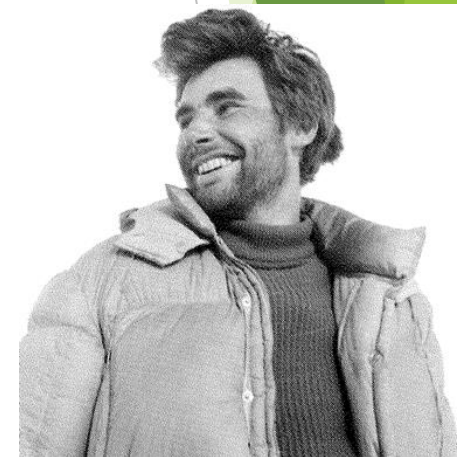
Following the meeting, I think it will be better if you deal direct with members of the Party in correspondence on medical matters.

Yours ever
John Hunt

Dr. Michael Ward,
Highway Cottage,
Esher,
Surrey.



John Hunt
Alpinista. Líder da Expedição



Michael Ward
Alpinista. Médico

equipment, and to Dr. G. E. R. Deacon and the captain and officers of R.R.S. *Discovery II* for their part in making the observations.

* Young, F. B., Gerrard, H., and Jevons, W., *Phil. Mag.*, **40**, 149 (1925).

* Ljungström-Hagfors, M. S., *Mon. Not. Roy. Astro. Soc., Geophys. Supp.*, **5**, 285 (1947).

* Von Arx, W. S., Woods Hole Papers in Phys. Cosmog. Meteor., **11**, 123 (1950).

* Ekman, V. W., *Arkiv. Mat. Astron. Fysik.* (Stockholm), **2** (11) (1905).

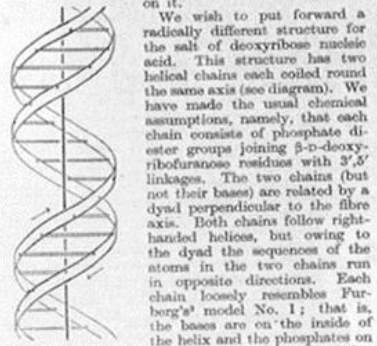
Francis Crick — James Watson
 MOLECULAR STRUCTURE OF
 NUCLEIC ACIDS

A Structure for Deoxyribose Nucleic Acid

WE wish to suggest a structure for the salt of deoxyribose nucleic acid (D.N.A.). This structure has novel features which are of considerable biological interest.

A structure for nucleic acid has already been proposed by Pauling and Corey¹. They kindly made their manuscripts available to us in advance of publication. Their model consists of three intertwined chains, with the phosphates near the fibre axis, and the bases on the outside. In our opinion, this structure is unsatisfactory for two reasons: (1) We believe that the material which gives the X-ray diagrams is the salt, not the free acid. Without the acidic hydrogen atoms it is not clear what forces would hold the structure together, especially as the negatively charged phosphates near the axis will repel each other. (2) Some of the van der Waals distances appear to be too small.

Another three-chain structure has also been suggested by Fraser (in the press). In his model the phosphates are on the outside and the bases on the inside, linked together by hydrogen bonds. This structure as described is rather ill-defined, and for this reason we shall not comment on it.



This figure is purely diagrammatic. The two ribbons symbolize the two phosphate-sugar chains, and the horizontal rods the pairs of bases holding the chains together. The vertical line marks the fibre axis.

We wish to put forward a radically different structure for the salt of deoxyribose nucleic acid. This structure has two helical chains each coiled round the same axis (see diagram). We have made the usual chemical assumptions, namely, that each chain consists of phosphate diester groups joining β -D-deoxyribofuranose residues with $3',5'$ linkages. The two chains (but not their bases) are related by a dyad perpendicular to the fibre axis. Both chains follow right-handed helices, but owing to the dyad the sequences of the atoms in the two chains run in opposite directions. Each chain loosely resembles Furburg's² model No. 1; that is, the bases are on the inside of the helix and the phosphates on the outside. The configuration of the sugar and the atoms near it is close to Furburg's 'standard configuration', the sugar being roughly perpendicular to the attached base. There

is a residue on each chain every 3.4 Å, in the z-direction. We have assumed an angle of 36° between adjacent residues in the same chain, so that the structure repeats after 10 residues on each chain, that is, after 34 Å. The distance of a phosphorus atom from the fibre axis is 10 Å. As the phosphates are on the outside, cations have easy access to them.

The structure is an open one, and its water content is rather high. At lower water contents we would expect the bases to tilt so that the structure could become more compact.

The novel feature of the structure is the manner in which the two chains are held together by the purine and pyrimidine bases. The planes of the bases are perpendicular to the fibre axis. They are joined together in pairs, a single base from one chain being hydrogen-bonded to a single base from the other chain, so that the two lie side by side with identical z-coordinates. One of the pair must be a purine and the other a pyrimidine for bonding to occur. The hydrogen bonds are made as follows: purine position 1 to pyrimidine position 1; purine position 6 to pyrimidine position 6.

If it is assumed that the bases only occur in the structure in the most plausible tautomeric forms (that is, with the keto rather than the enol configurations) it is found that only specific pairs of bases can bond together. These pairs are: adenine (purine) with thymine (pyrimidine), and guanine (purine) with cytosine (pyrimidine).

In other words, if an adenine forms one member of a pair, on either chain, then on those assumptions the other member must be thymine; similarly for guanine and cytosine. The sequence of bases on a single chain does not appear to be restricted in any way. However, if only specific pairs of bases can be formed, it follows that if the sequence on one chain is given, then the sequence on the other chain is automatically determined.

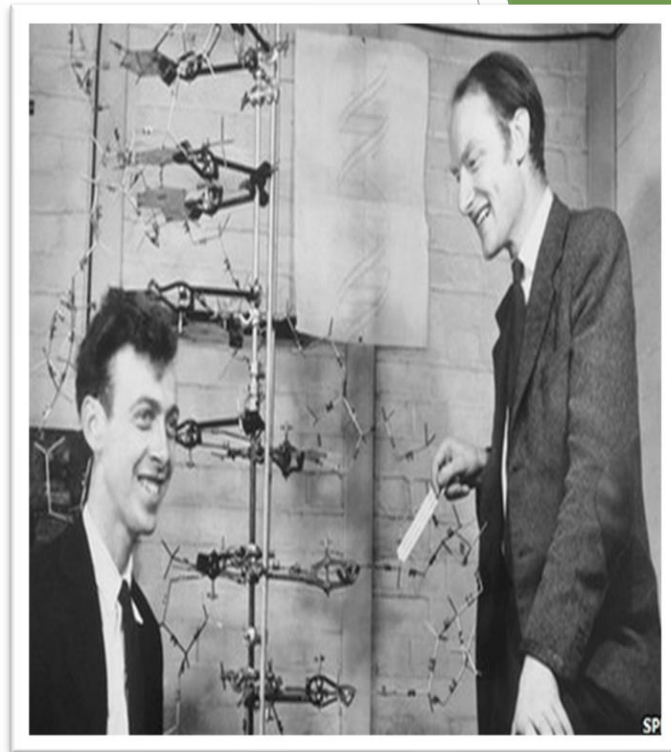
It has been found experimentally^{3,4} that the ratio of the amounts of adenine to thymine, and the ratio of guanine to cytosine, are always very close to unity for deoxyribose nucleic acid.

It is probably impossible to build this structure with a ribose sugar in place of the deoxyribose, as the extra oxygen atom would make too close a van der Waals contact.

The previously published X-ray data^{5,6} on deoxyribose nucleic acid are insufficient for a rigorous test of our structure. So far as we can tell, it is roughly compatible with the experimental data, but it must be regarded as unproved until it has been checked against more exact results. Some of these are given in the following communications. We were not aware of the details of the results presented there when we devised our structure, which rests mainly though not entirely on published experimental data and stereochemical arguments.

It has not escaped our notice that the specific pairing we have postulated immediately suggests a possible copying mechanism for the genetic material. Full details of the structure, including the conditions assumed in building it, together with a set of co-ordinates for the atoms, will be published elsewhere.

We are much indebted to Dr. Jerry Donohue for constant advice and criticism, especially on interatomic distances. We have also been stimulated by a knowledge of the general nature of the unpublished experimental results and ideas of Dr. M. H. F. Wilkins, Dr. R. E. Franklin and their co-workers at



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One of my father's medical
 books, when a student
 at Edinburgh.

John Com Dayle

Investigação

CERÂMICA FARMACÊUTICA E A ARTE DE CURAR

PAULA BASSO



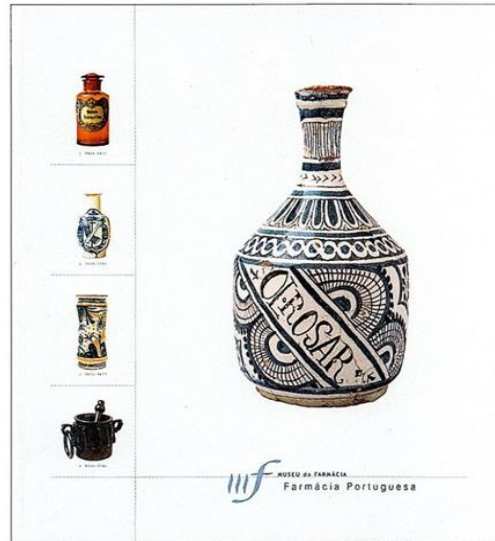
A Farmácia no Mundo Pré-Clássico e nas Culturas Tradicionais



A FARMÁCIA E O MEDICAMENTO

Uma História Concisa

PAULA BASSO



mf MUSEU da FARMÁCIA
Farmácia Portuguesa



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museudefarmaciaoanfpt



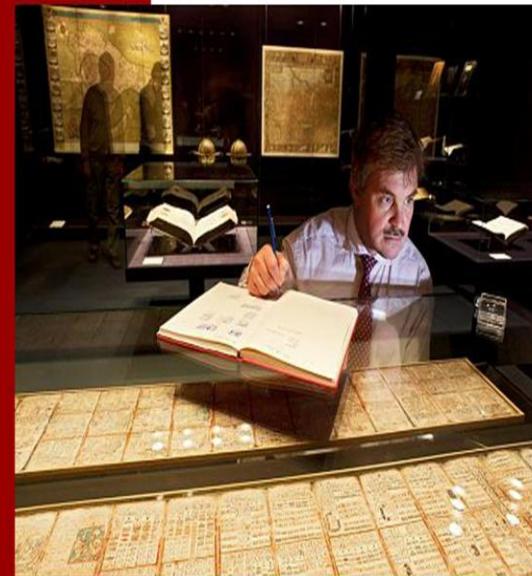
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DIA 24 DE NOVEMBRO DE 2014, 16:45H

**PROF DOUTOR
NIKOLAI GRUBE**
UNIVERSIDADE DE BONA

A CIÊNCIA DOS MAYAS : SAÚDE E ASTRONOMIA
CONFERÊNCIA – ENTRADA LIVRE



MUSEU da FARMÁCIA





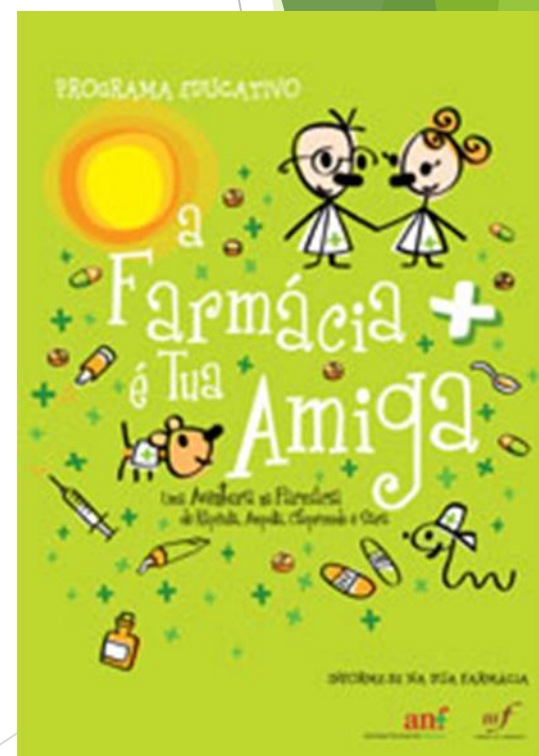
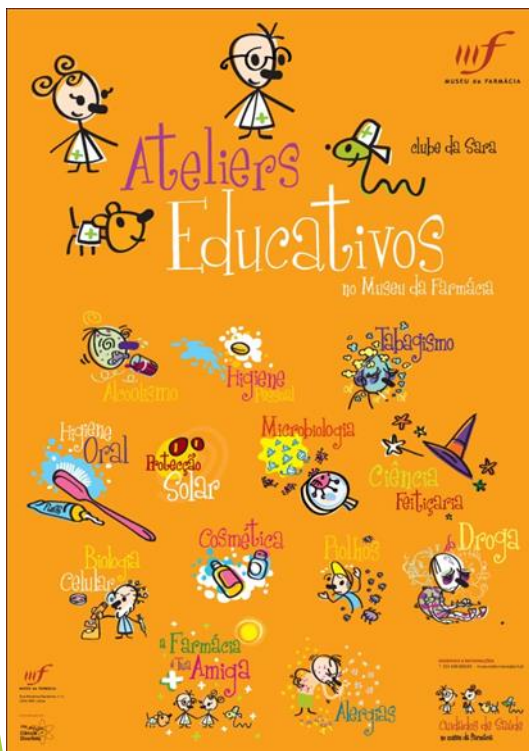
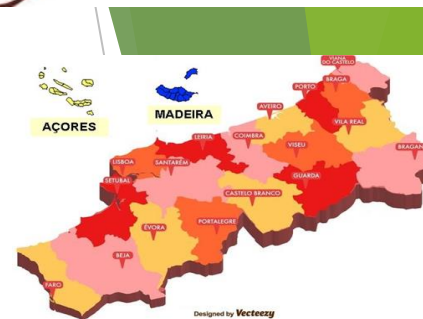
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apresenta

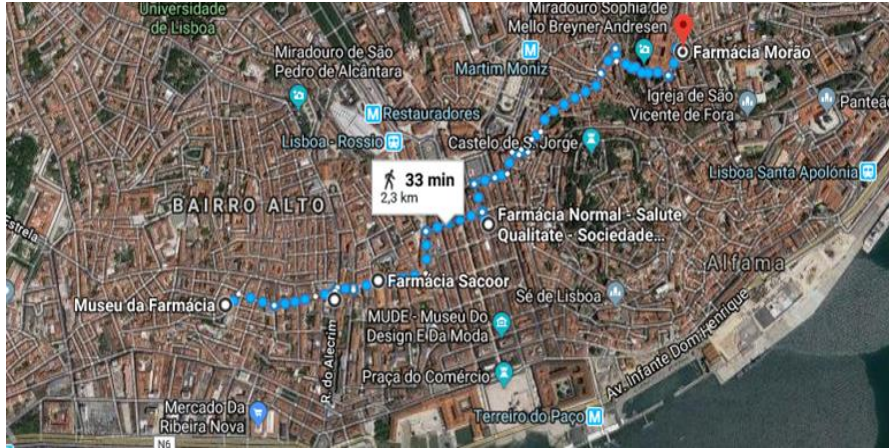
Ciclo de Conversas sobre Sexualidade



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Loja





Obrigado

Joao Neto