

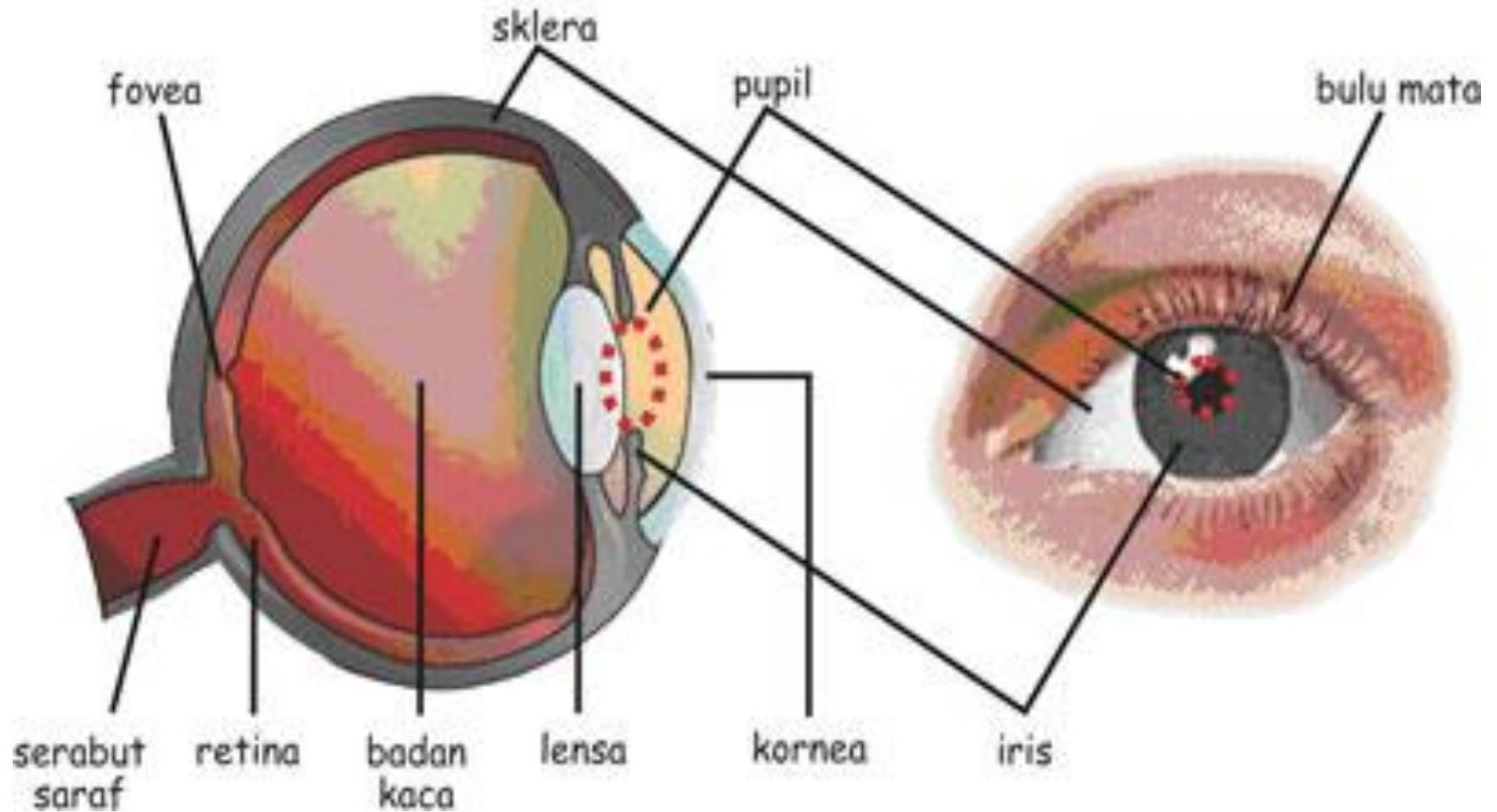
SISTEM INDERA MANUSIA

by Ms. Evy Anggraeny

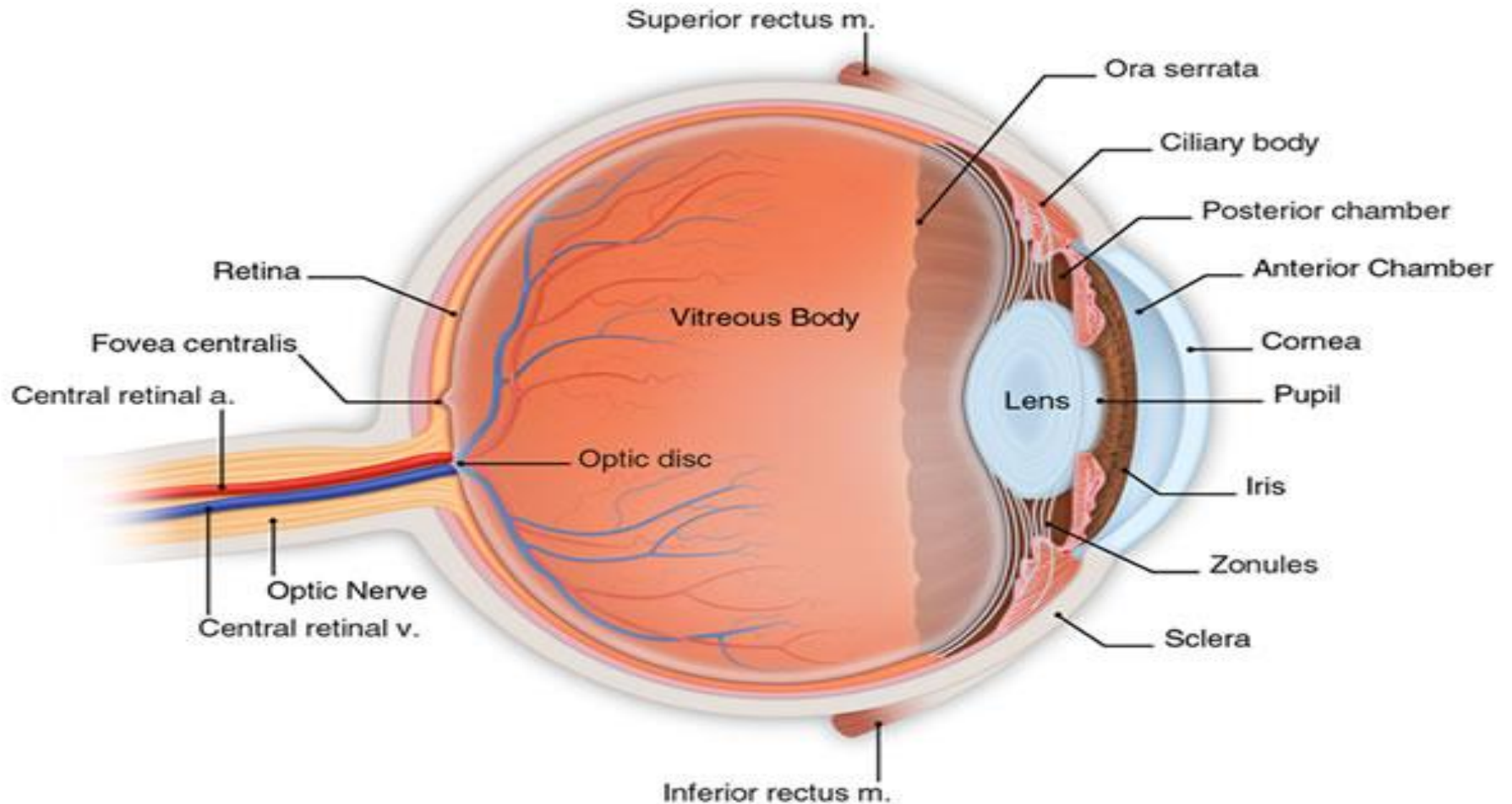
SMA Regina Pacis Jakarta

INDERA PENGLIHATAN : BAGIAN MATA

Sumber : <http://media.tanyadokteranda.com/images//2008/11/anatomi-mata.jpg>



INDERA PENGLIHATAN : ANATOMI MATA

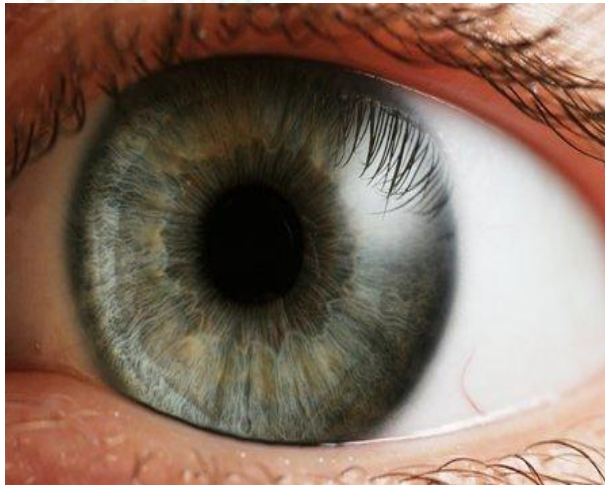


INDERA PENGLIHATAN : WARNA MATA

Sumber : <http://informasisehat.files.wordpress.com/2009/12/eye.jpg>



Fig. 1. View of the human eye



INDERA PENGLIHATAN : MATA

BAGIAN BOLA MATA :

1. SCLERA :

- ✓ Kornea
- ✓ Selaput konjungtiva
- ✓ Aqueous humour

2. KOROID :

- ✓ Iris
- ✓ Pupil
- ✓ Lensa mata

3. RETINA :

- ✓ Fovea
- ✓ Bintik buta
- ✓ Vitreous humour

INDERA PENGLIHATAN : MATA

Akomodasi lensa mata :

- ❖ Benda jauh akan memipih.
- ❖ Benda dekat akan membesar.

Akomodasi pupil:

- ❖ Cahaya kuat akan memipih.
- ❖ Cahaya lemah akan membesar.

Sel dalam retina :

1. Sel konus :

- Peka cahaya.
- Membedakan warna merah, hijau & biru.

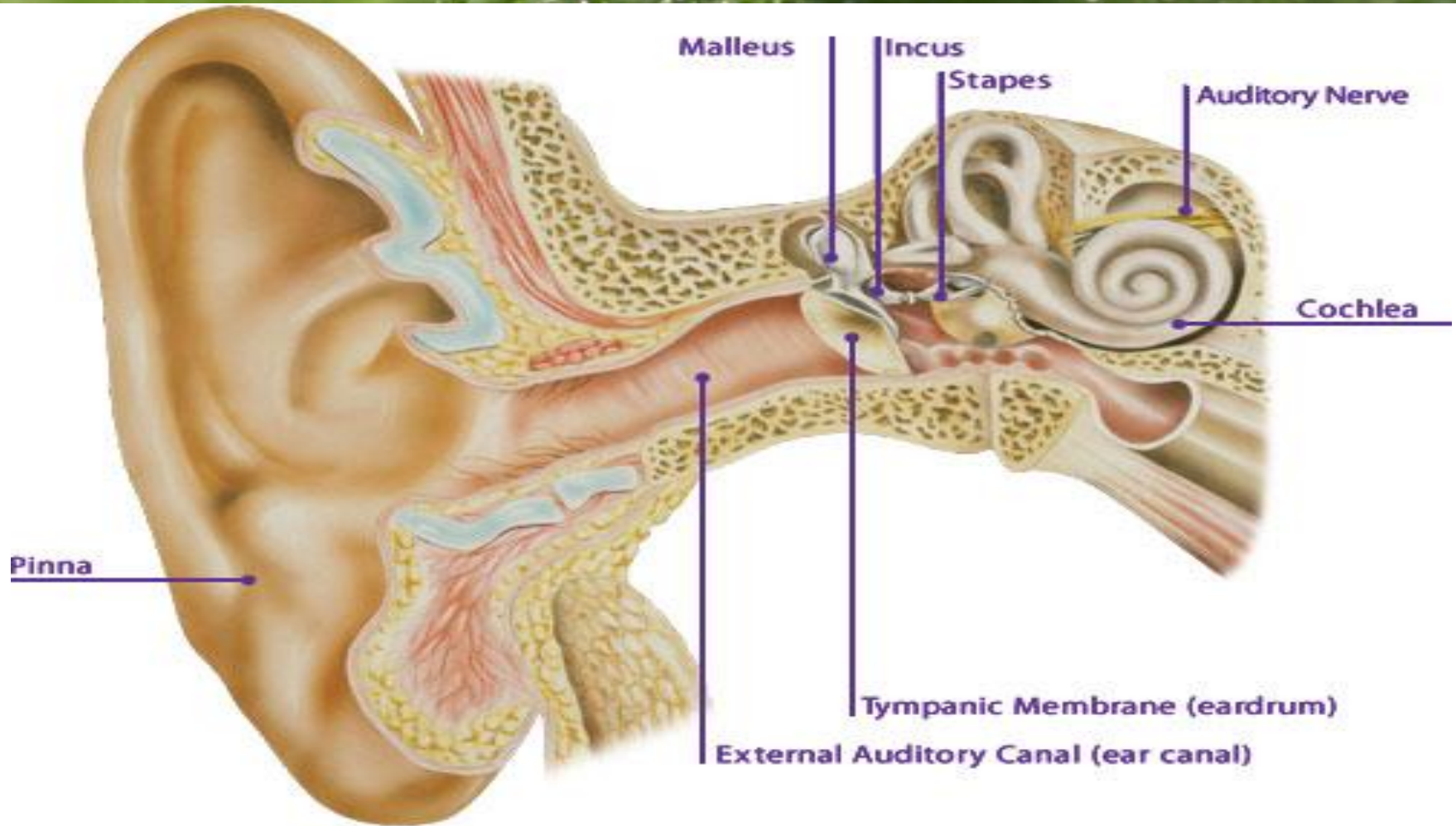
2. Sel basilus

- Peka gelap.
- Tidak dapat membedakan warna

INDERA PENGLIHATAN : MEKANISME MELIHAT

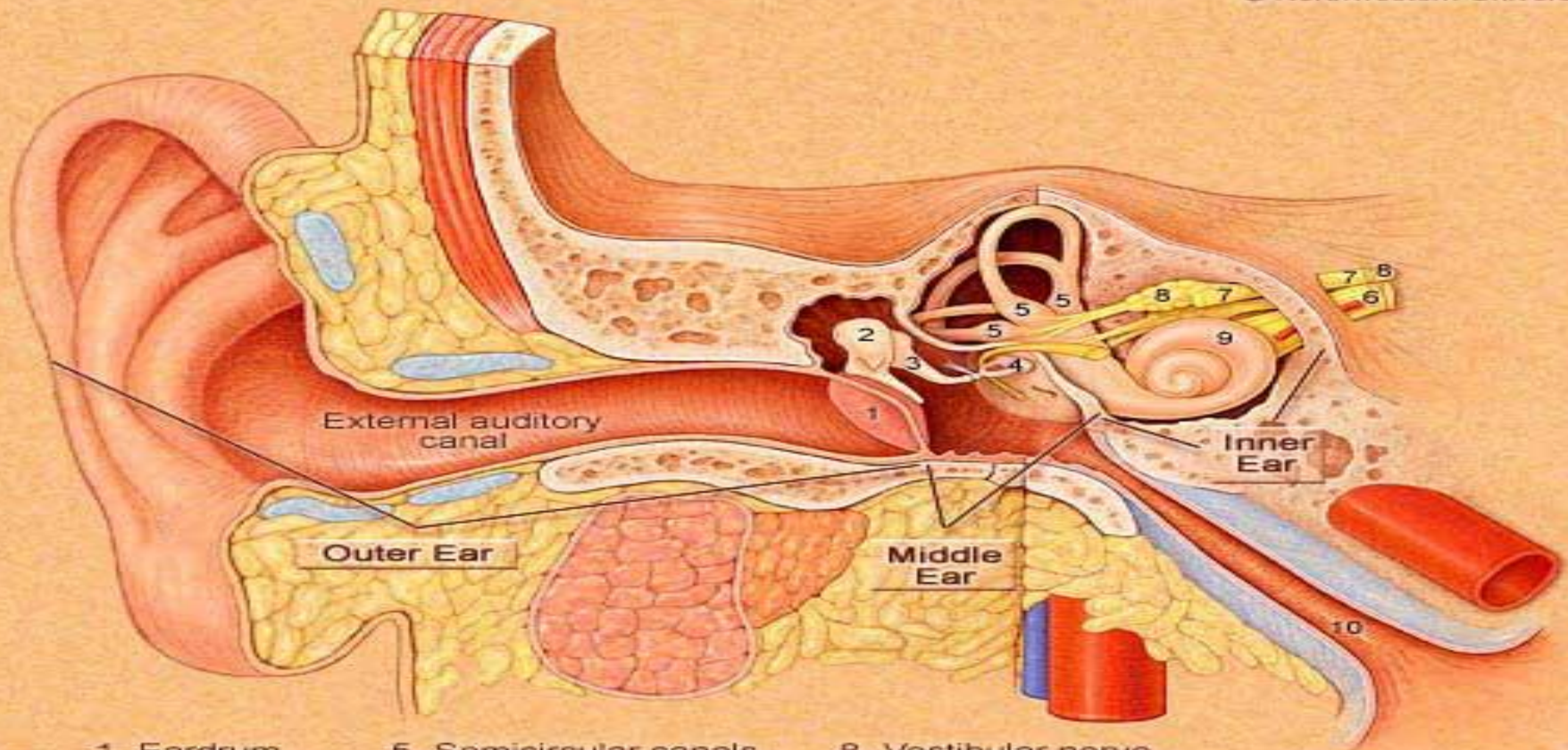
Impuls (cahaya) → lapisan konjungtiva → kornea
mata → aqueous humour → iris → pupil →
lensa mata → vitreous humour → fovea → saraf
optik (dalam SSP) → persepsi melihat.

INDERA PENDENGARAN : ANATOMI TELINGA



INDERA PENDENGARAN : ANATOMI TELINGA

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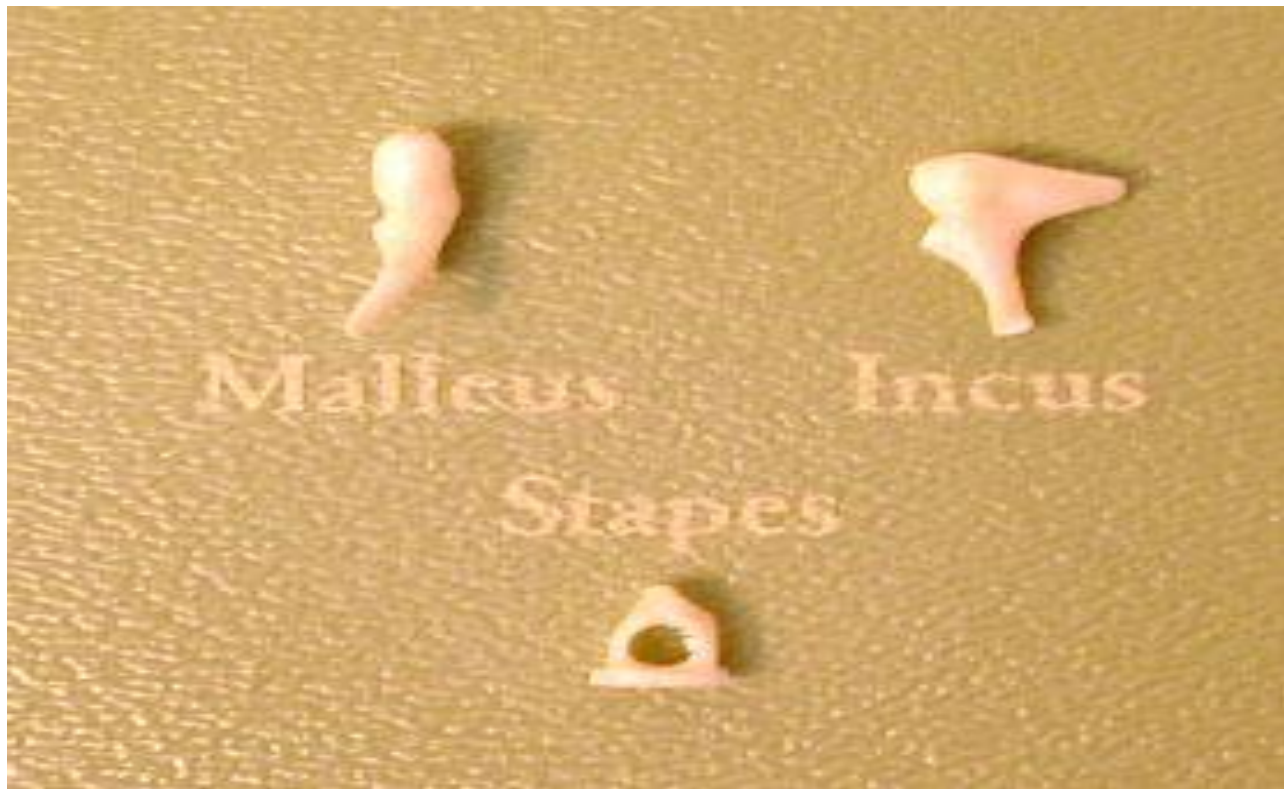


1. Eardrum
2. Malleus
3. Incus
4. Stapes

5. Semicircular canals
6. Auditory nerve
7. Facial Nerve

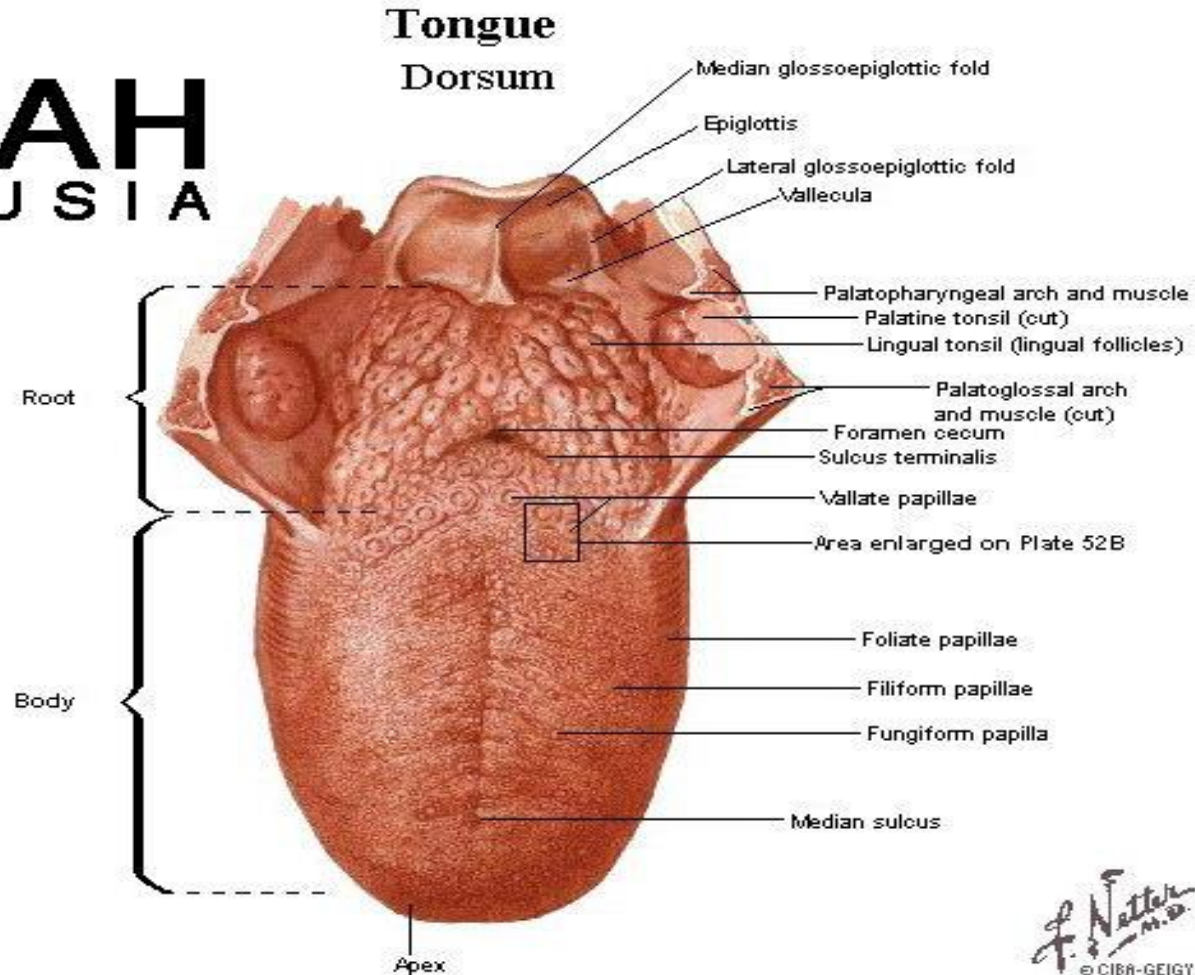
8. Vestibular nerve
9. Cochlea
10. Eustachian tube

INDERA PENDENGARAN : TULANG TELINGA



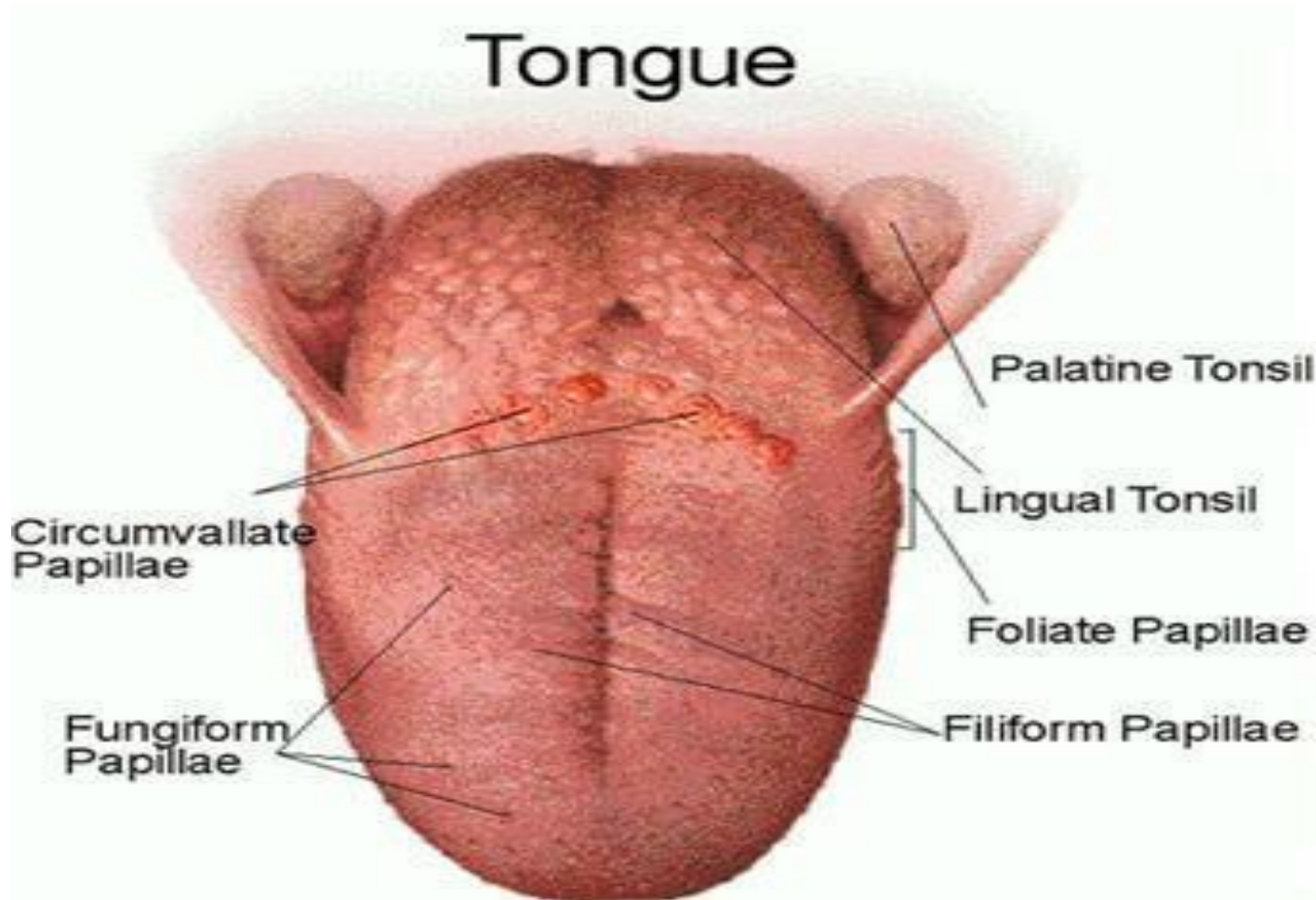
INDERA PENGECAP : MORFOLOGI LIDAH

LIDAH MANUSIA

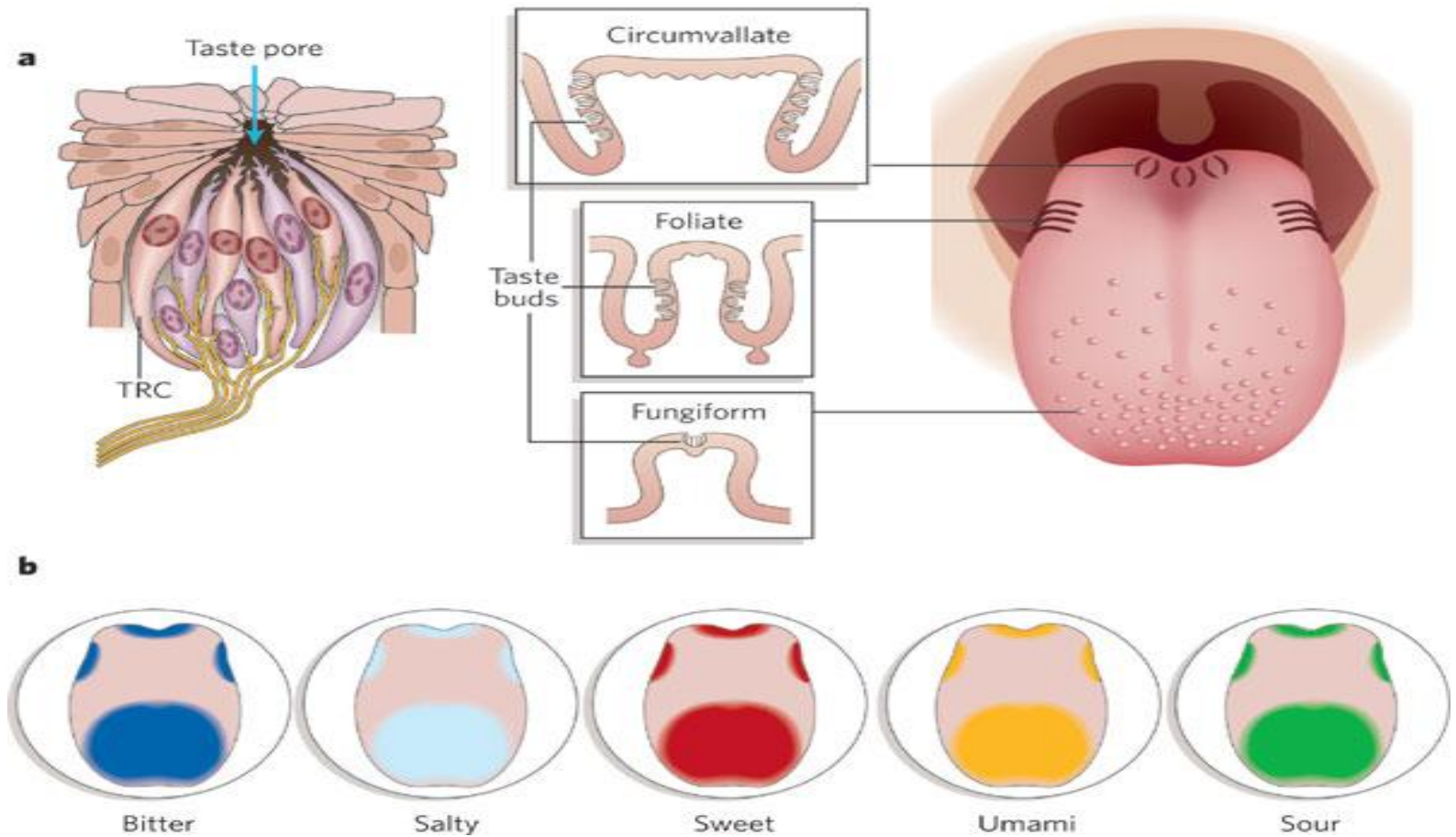


F. Netter M.D.
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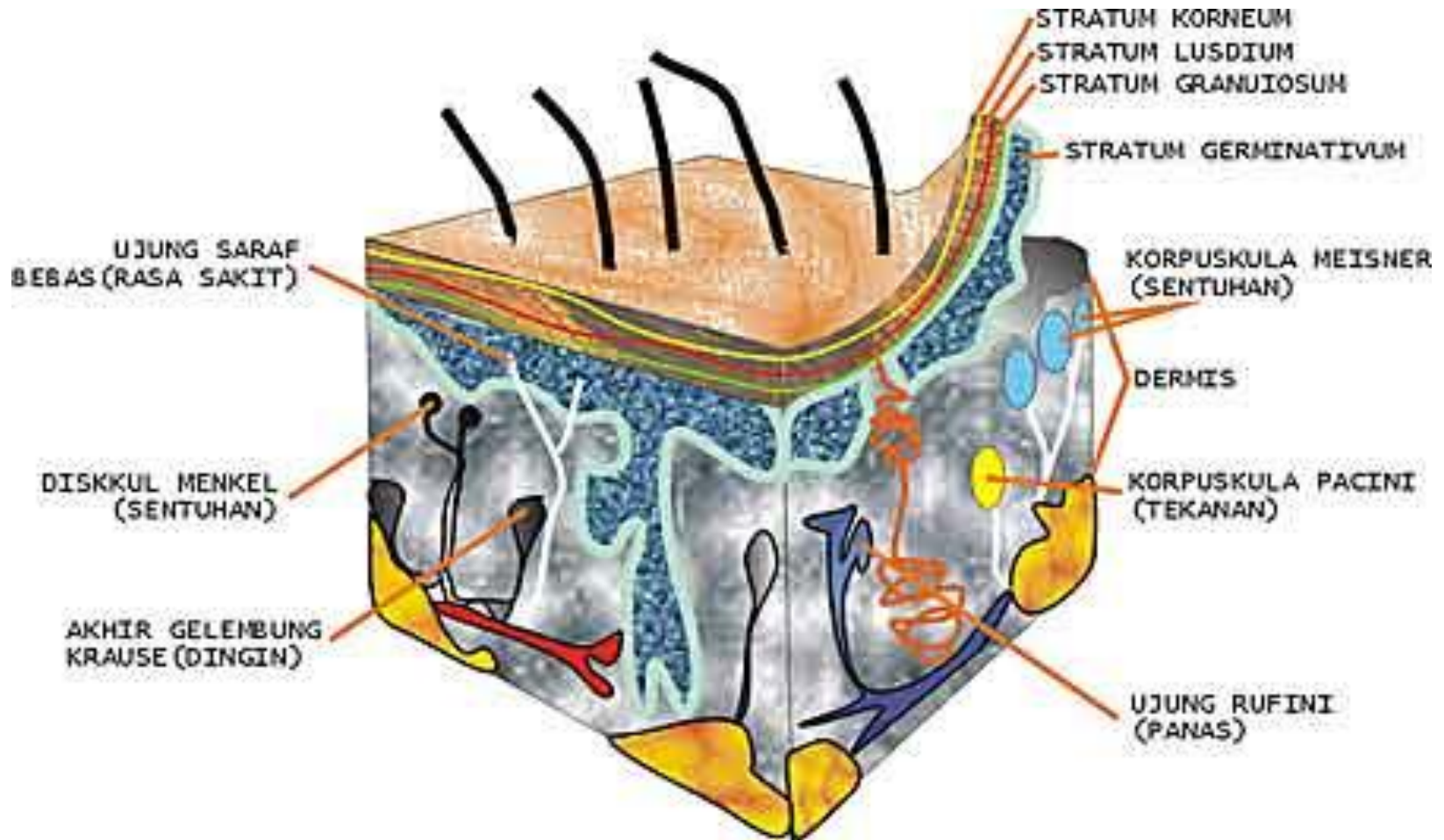
INDERA PENGECAP : MACAM PAPILA LIDAH



INDERA PENGECAP : AREA RASA LIDAH

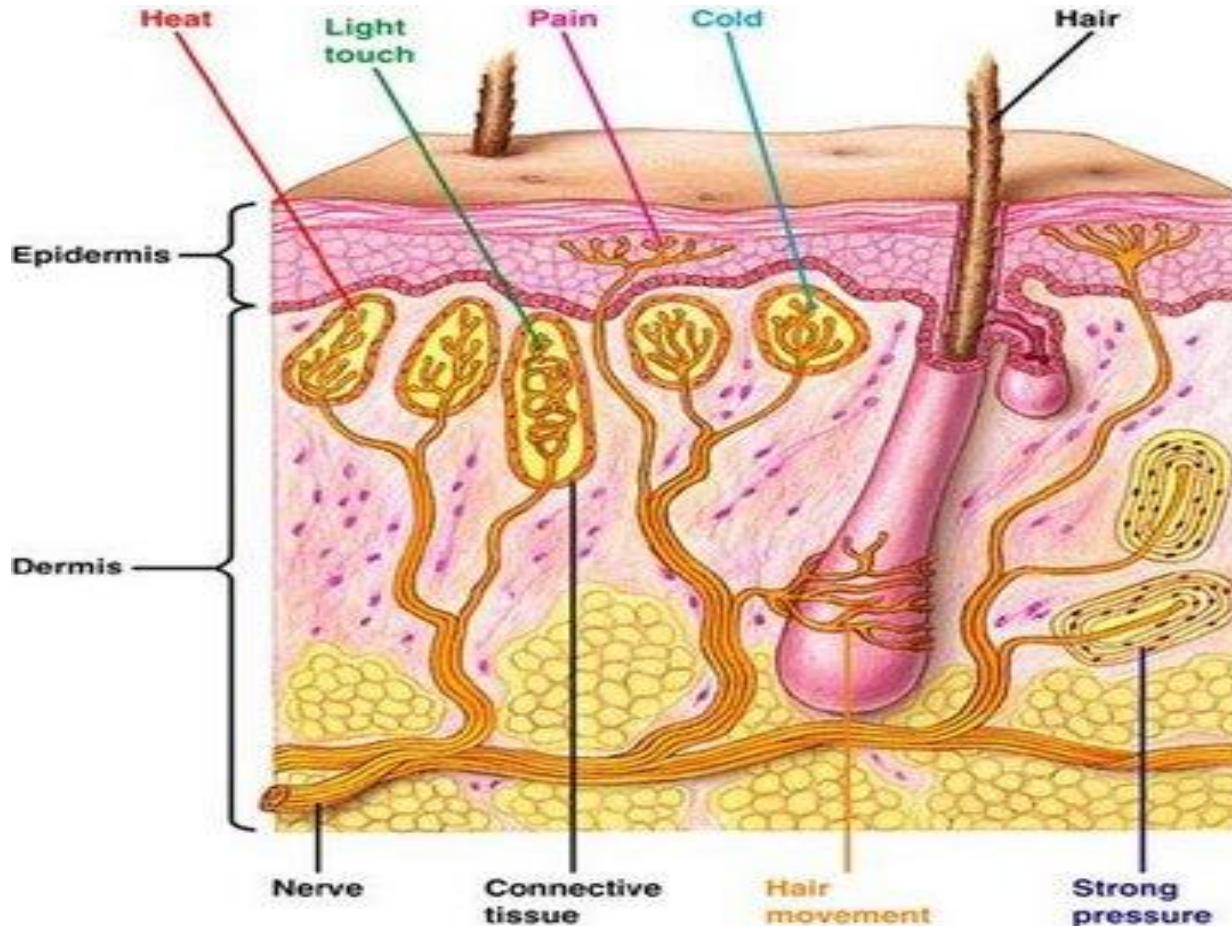


INDERA PERABA : ANATOMI KULIT



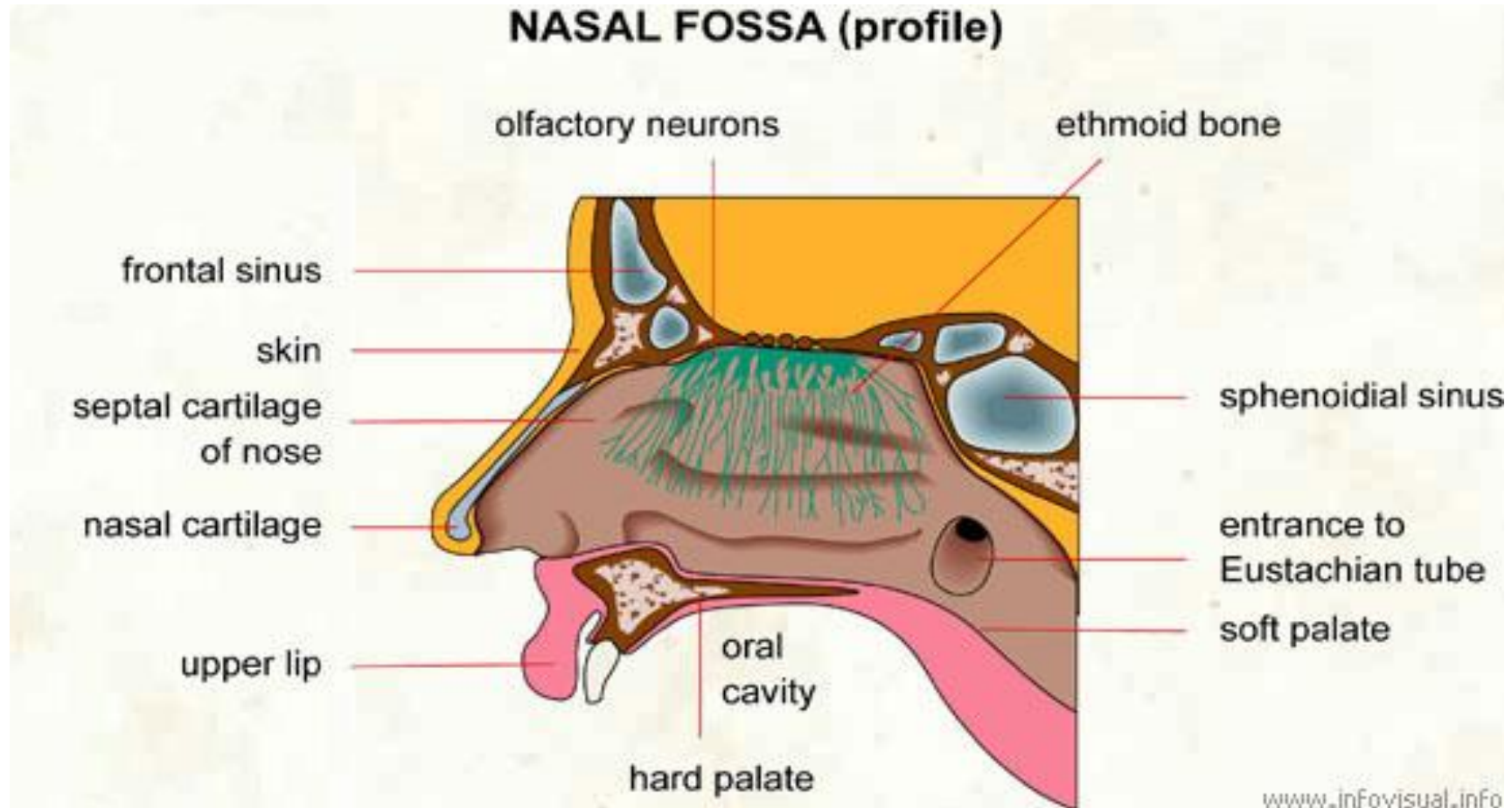
INDERA PERABA : SARAF KULIT

Sumber : <http://3.bp.blogspot.com>



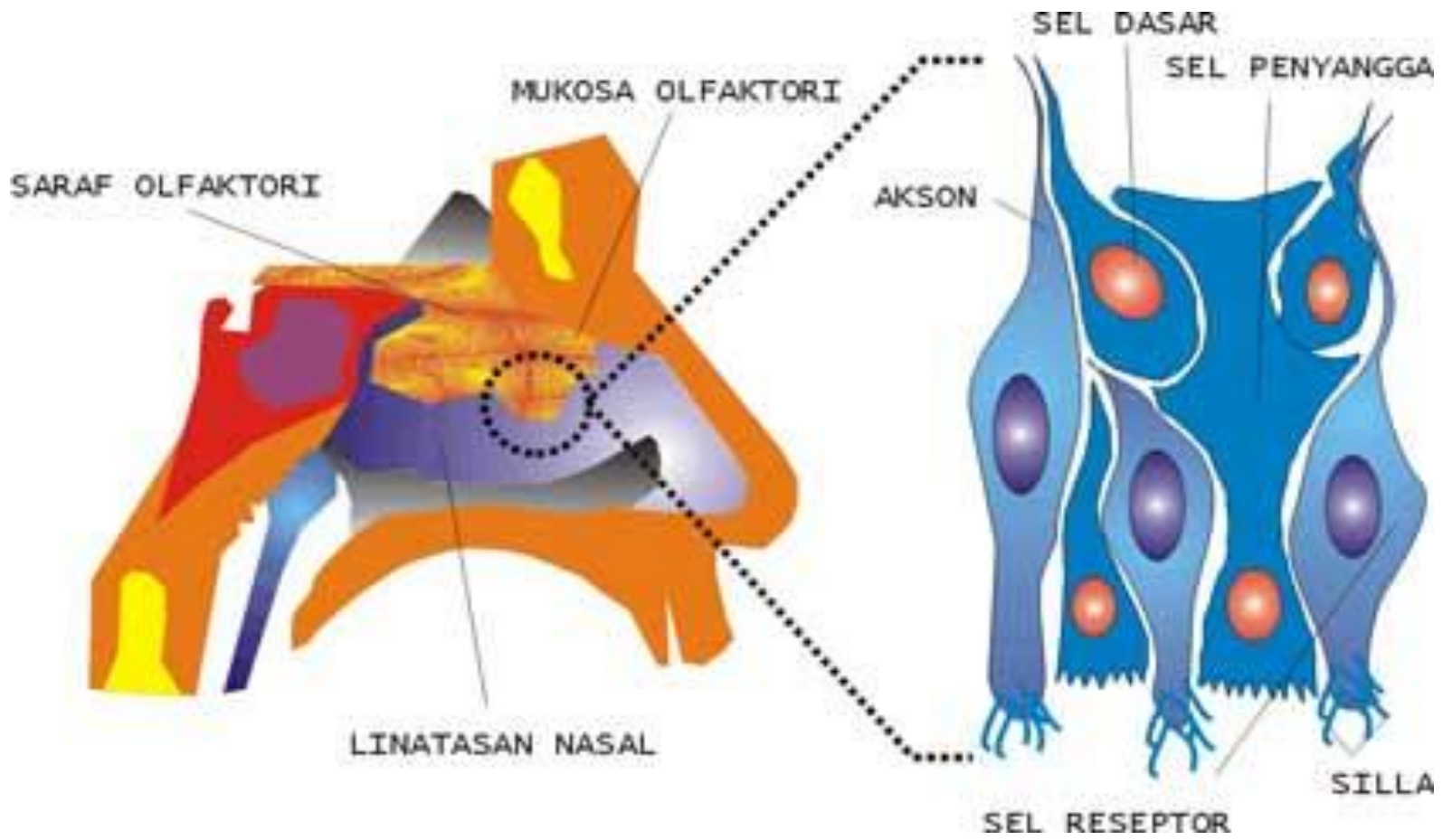
INDERA PENCUCUMAN : ANATOMI HIDUNG

Sumber : http://www.infovisual.info/03/052_en.html



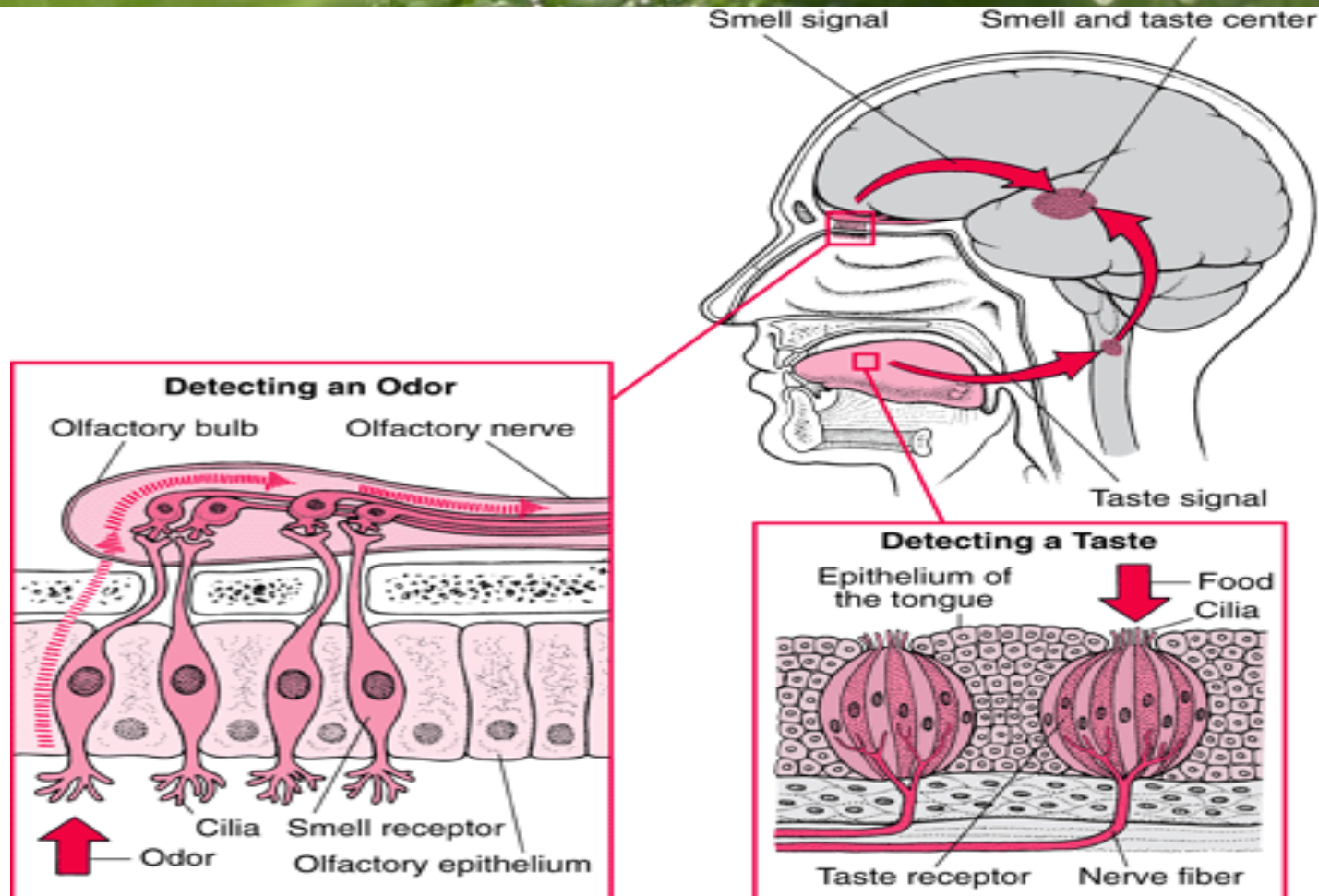
INDERA PENCIUMAN : SARAF PENCIUMAN

Sumber : <http://kambing.ui.ac.id/bebas/v12/sponsor>



INDERA PENCIUMAN : PROSES PENCIUMAN

Sumber : <http://www.merck.com/mmhe/sec19/ch221/ch221j.html>



Thank you for your attention



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