

The Untold Story of Sir Ronald Ross



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Terminix International

- Born May 13, 1857 - Fringe of Indian Himalayas
- Oldest of 10 children
- Father - BG Sir Campbell Claye Grant Ross
- Mother - Matilda Charlotte Elderton
- "Like all mothers.....(she) was the best in the world..."



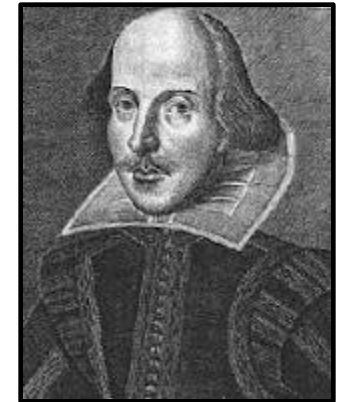
Flag of British India Army



- 1865 - back to England for school
- Proficient in math - natural
- Interest in natural history
- Age 17 - enrolled in medical school
- 1879 - failed to qualify
- 1880 - Ship's Surgeon



Pope



Shakespeare



Milton



St Bartholomew's Hospital



Past President Tom Wilmot



9. Rosa Ross, c. 1902 (courtesy of Brigadier H. S. Langstaff)



Campbell Ross
Age 19

10. (above) Campbell
Ross, 1914 (cour-
tesy of Brigadier
H. S. Langstaff)



11. Dorothy, Sylvia
and Campbell
Ross, c. 1900
(courtesy of
Brigadier H. S.
Langstaff)

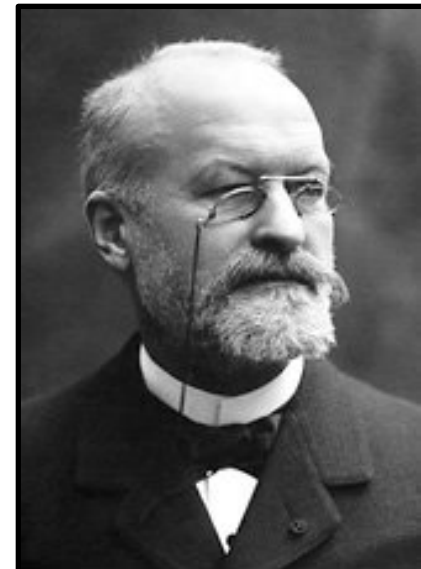
Rosa Bessie Bloxam Ross - 1902

L to R - Dorothy, Sylvia and Campbell Ross

- 1889 - Returned to India
- Began to study mosquitoes
- Ignorant of the literature
- Criticized Laveran's findings

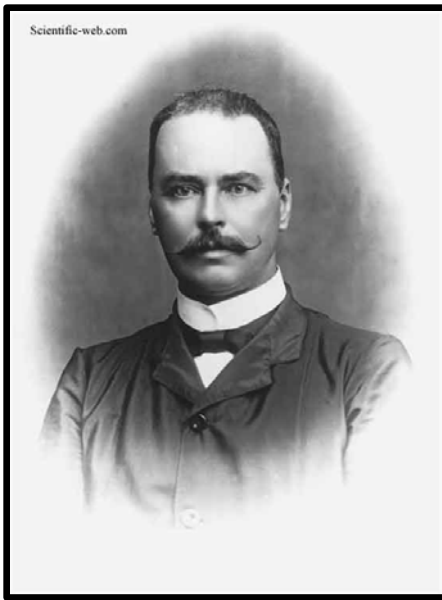


Ross



Charles Louis
Alphonse Laveran
(1845 - 1922)

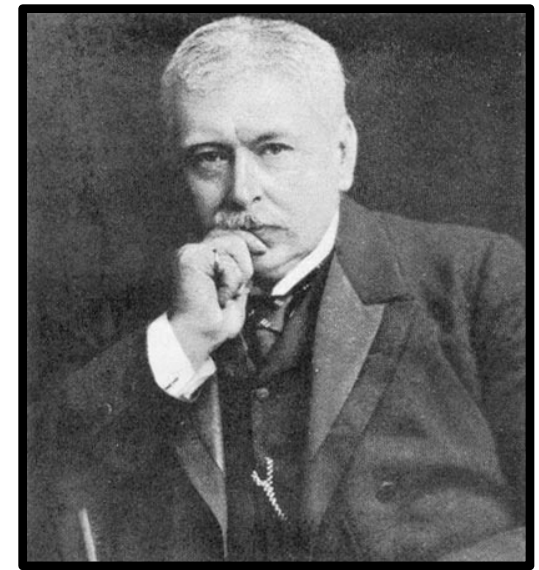




Ronald Ross

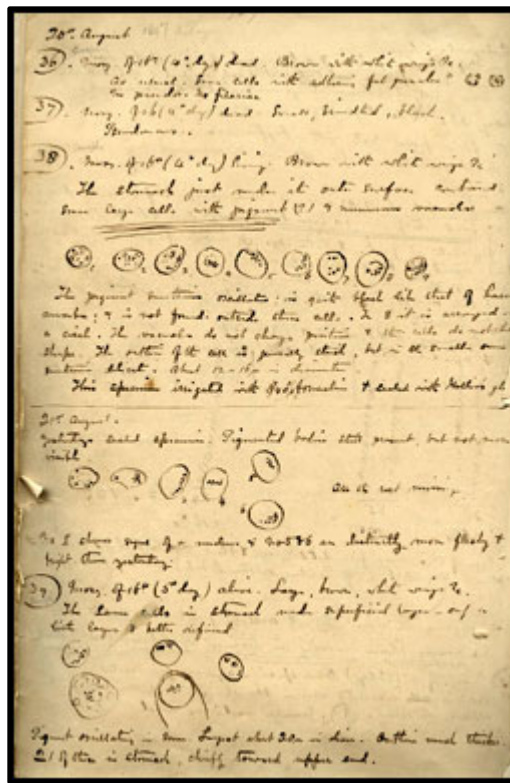


Where the mystery resides...



Patrick Manson

- 1894 - year's furlough, met Patrick Manson
- Convinced of Laveran's observations
- Heard Manson's theory on mosquito transmission
- Series of letters between Manson and Ross
- Manson kept Ross focused and preached urgency
- Both men needed each other for success

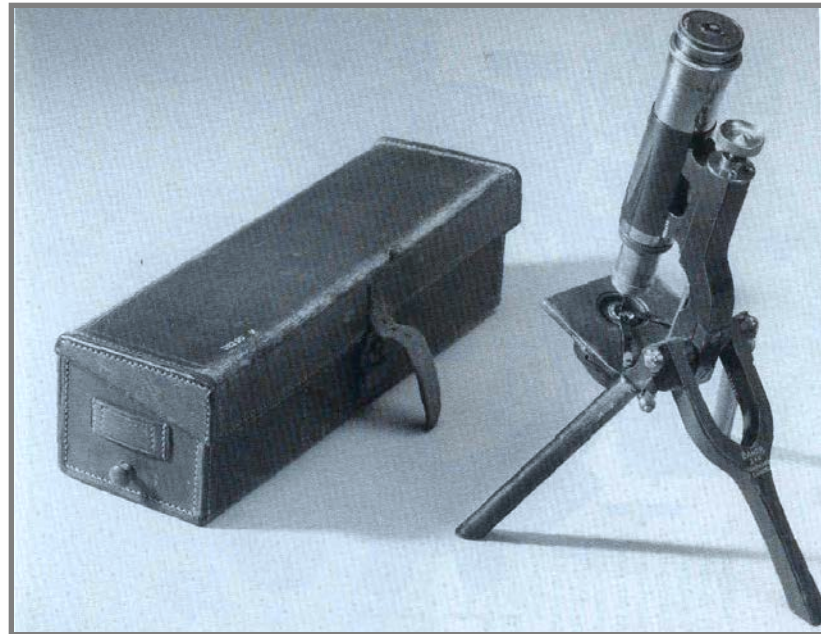


- Multiple handicaps
- "To study *Plasmodium*...."
- Contaminated water studies
- Human malaria parasites in *Anopheles*
- Mosquito Day - August 20, 1897

Laboratory Notebook Mosquito Day

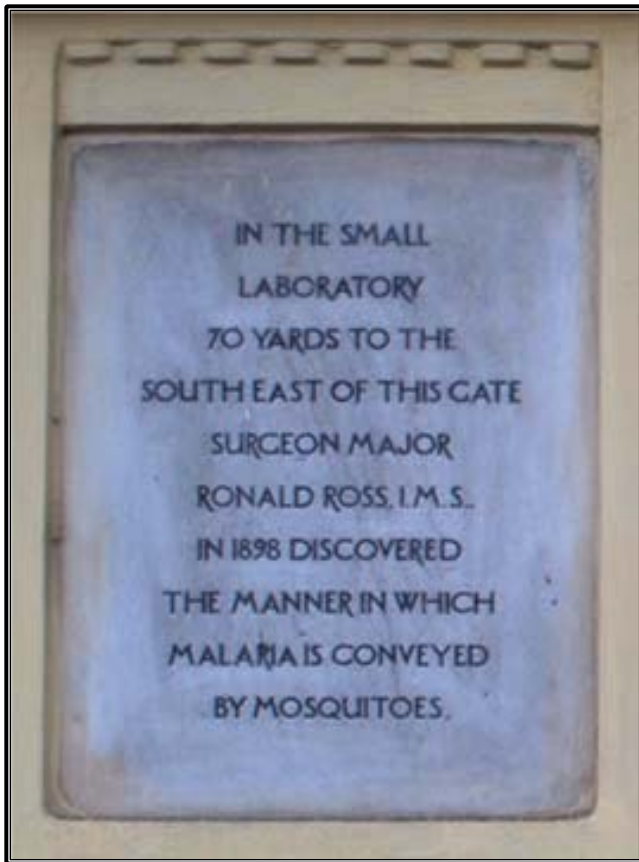


Box used by Ross
to Hold Mosquitoes

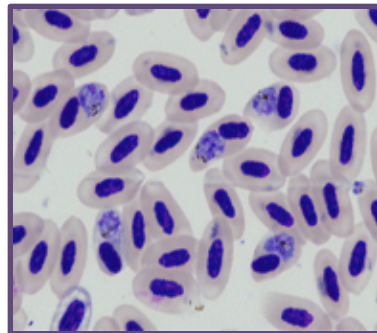


Microscope designed by Ross

- No human malaria
- Malaria life cycle in sparrows and *Culex*
- Experimental career ended in 1899



Ross Memorial - Calcutta



Ronald and Rosa Ross
Calcutta, 1898



Sir Ronald Ross



Ross receives Nobel Prize



Nobel Prize medal

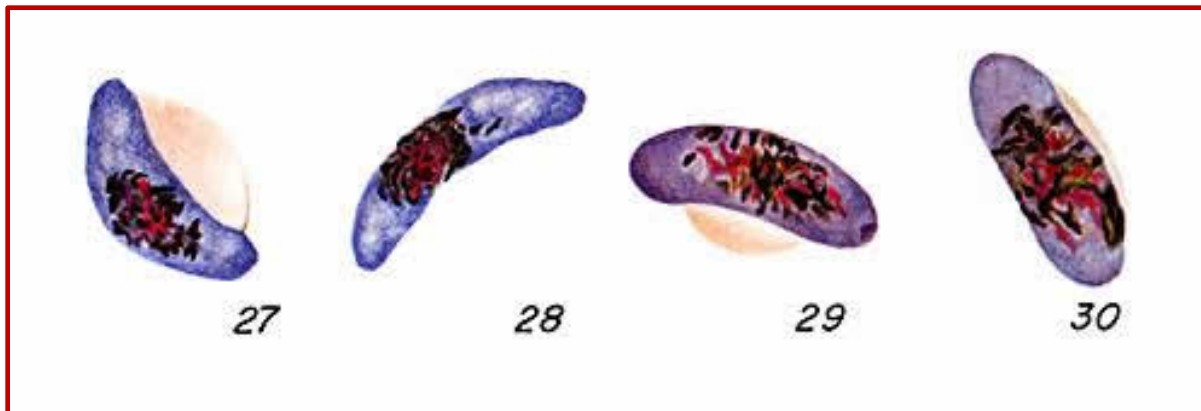
- Nominated in 1901
- Nominated in 1902
- Three finalists - Ross won!
- 7,880 pounds sterling
- Swedish King Oscar II



Grassi's Home and Lab



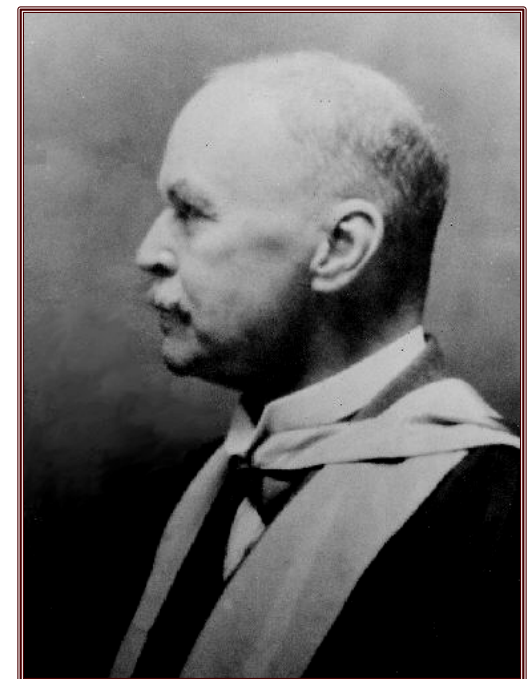
Giovanni Battista Grassi



Ronald Ross



Grave of Sir Ronald Ross



Cy

man

(to sa

zoite
c dormancy)

Bursting cy

ature liver
hizont

Oocyst

Erythrocyte

Mosquito
midgut

Zygote

Tropnozoite

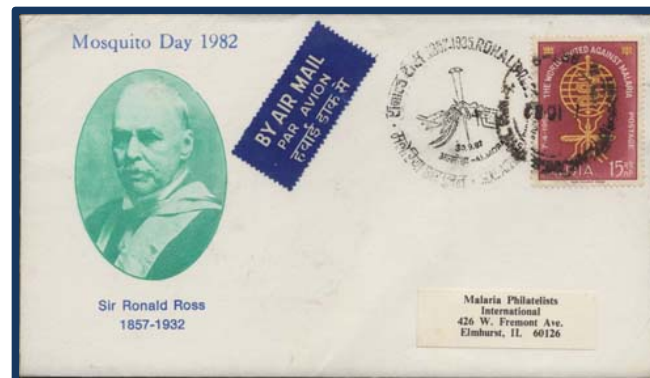
Macrogamete

Erythrocytic
schizont

Microgan

cyte





That's All, Folks!