An enzyme in white cells, it started with phox,
It knocked off the microbes, oxidized them, so tox.
But then came Nox1, which opened the door,
For Nox3 and Duox and even Nox4,
Nox5 and some splice forms, there were homologs plenty,
We hope that it’s finished, and that there aren't twenty.
NOXO and NOXA and small GTPases,
Regulate ROS in cellular spaces.
But why are they there, and what do they do?
You be the judge......we'll leave it to you.
An enigma, a riddle, locked up in a box;
A Nox/Phox/Duox box with locks upon locks.
Do they tweak the cell cycle and angiogenesis,
Or like phox to a microbe, act as a nemesis?
Outside the cell, do they oxidize stuff,
To cross-link the matrix, to make it quite tough?
There's room for discussion, the field is quite new,
There’s lots of opinions, and lots left to do!
Chemistry, biology, model animals, too.
New data? Plenty! At Meeting NoxII!

with apologies to Dr. Seuss