

## List of Publications- Negussie W. Beyene

41. Christiaan Mulder, Georgies Mgode, Haylee Ellis, Emilio Valverde, **Negussie Beyene**, Christophe Cox, Stewart Reid, Anna Van't Hoog, Timothy L. Edwards. Accuracy of giant African pouched rats for diagnosing tuberculosis: comparison with culture and Xpert MTB/RIF. [Int. J. Tuberc. Lung. Dis. 2017; 21: 1127–1133.](#)
40. Alan Poling, Emilio Valverde, **Negussie Beyene**, Christiaan Mulder, Christophe Cox, Georgies Mgode, Timothy L. Edwards. Tuberculosis Detection by Pouched Rats in 2014: Over 2,000 New Patients Found in Two Countries. [Journal of Applied Behavior Analysis 2016; 50\(1\) DOI: 10.1002/jaba.356.](#)
39. Alan Poling, Amanda Mahoney, **Negussie Beyene**, Georgies Mgode, Bart J. Weetjens, Christophe Cox, Amy Durgin. Using giant African pouched rats to detect human tuberculosis: a review, [Pan African Medical Journal 21, 333, 31/08/2015.](#)
38. Klaus Reither, Levan Jugheli, Tracy R. Glass, Mohamed Sasamalo, Francis Mhimbira, Bart J. Weetjens, Christophe Cox, Timothy L. Edwards, Christiaan Mulder, **Negussie Beyene**, Amanda Mahoney, Evaluation of giant African pouched rats for detection of pulmonary tuberculosis in patients from high-endemic settings, [Plos ONE 2015; 10\(10\):e0135877. DOI: 10.1371/journal.pone.0135877.](#)
37. Amanda Mahoney, Timothy Edwards, Kate LaLonde, **Negussie Beyene**, Christophe Cox, Bart J. Weetjens, Alan Poling, Pouched Rats' (*Cricetomys gambianus*) Detection of *Salmonella* in Horse Feces, [Journal of Veterinary Behavior 9: 124-126, 2014..](#)
36. Amanda Mahoney, Timothy Edwards, Bart J. Weetjens, Christophe Cox, **Negussie Beyene**, Maureen Jubitana, Amy Durgin, and Alan Poling, Giant African Pouched Rats' (*Cricetomys Gambianus*) as Detectors of Tuberculosis in Human Sputum: Two Operational Improvements, [The Psychological Record 63: 2013.](#)
35. Amanda Mahoney, Bart J. Weetjens, Christophe Cox, **Negussie Beyene**, Klaus Reither, George Makingi, Maureen Jubitana, Rudovic Kazwala, Godfrey S. Mfinanga, Amos Kahwa, Amy Durgin, and Alan Poling, Pouched Rats' Detection of Tuberculosis in Human Sputum: Comparison to Culturing and Polymerase Chain Reaction, [Tuberculosis Research and Treatment \(2012\) doi: 10.1155/2012/716989.](#)
34. **Negussie Beyene**, Amanda Mahoney, Christophe Cox, Bart Weetjens, George Makingi, Georgies Mgode, Amy Durgin, Dian Kuipers, Maureen Jubitana, Saidi Egawaga, Deus Kimara, Fred Lwilla, Godfrey Mfinanga, Amos Kahwa, Robert Machang'u, Rudovick Kazwala, Klaus Reither, Stefan H.E. Kaufmann, Alan Poling, APOPO's Tuberculosis Research Agenda: Achievements, Challenges, and Prospects, [Tanzanian Journal of Health Research 14: \(2012\).](#)

33. Amanda Mahoney, Bart J. Weetjens, Christophe Cox, **Negussie Beyene**, Georgies Mgode, Maureen Jubitana, Rudovic Kazwala, Godfrey S. Mfinanga, Amy Durgin, and Alan Poling, Using Giant African Pouched Rats to Detect Tuberculosis in Human Sputum Samples: 2010 Findings, [Pan African Medical Journal 9: \(2011\) 28.](#)
32. Adee Schoon, **Negussie Beyene**, *The Morogoro Project, 2009-2010*, in: [Remote Explosives Scent Tracing, REST, eds., Poling, A., Fjellanger, R., Geneva International Centre for Humanitarian Demining](#), Geneva, 2011 chapter 7, pp. 141-178.
31. **Negussie W. Beyene**, Kai-Uwe Goss, *Analytical and Physical Chemistry of Explosives in REST*, in: [Remote Explosives Scent Tracing, REST, eds., Poling, A., Fjellanger, R., Geneva International Centre for Humanitarian Demining](#), Geneva, 2011 chapter 3, pp. 45-59.
30. Alan Poling, Bart Weetjens, Christophe Cox, and **Negussie Beyene**, Amy Durgin, Amanda Mahoney, Tuberculosis Detection by Giant African Pouched Rats (*Cricetomys gambianus*), [The Behavior Analyst 34 : \(2011\) 47-54.](#)
29. Alan Poling, Bart J. Weetjens, Christophe Cox, **Negussie W. Beyene**, and Andrew Sully, *Using giant African pouched rats (Cricetomys gambianus) to detect landmines: Another Victory for Operant Conditioning*, [Journal of Applied Behavior Analysis 44: \(2011\) 351-356.](#)
28. **Negussie W. Beyene**, *Extraction and Sample Preparation Procedures for the Analysis of Nitroaromatic Explosive Compounds in Soil*, in: [Explosive Materials: Classification, Composition, and Properties](#), eds. T.J. Janssen, Nova publishers, USA, 2010. ISBN: 978-1-61761-188-9.
27. Alan Poling, Bart Weetjens, Christophe Cox, **Negussie W. Beyene**, Håvard Bach, and Andrew Sully, *Teaching Giant African Pouched Rats to Find Landmines: Operant Conditioning with Real Consequences*, [Behavioral Analysis in Practice 3 \(2010\): 19-25.](#)
26. Alan Poling, Bart J. Weetjens, Christophe Cox, **Negussie W. Beyene**, and Andrew Sully, *Using Trained Pouched Rats (Cricetomys gambianus) to Detect Landmines*, [The Psychological Record 60 \(2010\): 715-727.](#)
25. **Negussie W. Beyene**, *Extraction of Nitroaromatic Explosive Compounds from Soil: Critical Review*, in: [Energetic Materials: Chemistry, Hazards, and Environmental Aspects](#), eds. J. R. Howell and T.E. Fletcher, Nova publishers, USA, 2010. ISBN: 978-1-60876-267-5.
24. Alan Poling, Christophe Cox, Bart J. Weetjens, **Negussie W. Beyene**, and Andrew Sully, *Two Strategies for Landmine Detection by Giant Pouched Rats* [the Journal of ERW and Mine Action](#), issue 14.1, 2010.

23. Alan Poling, Bart J. Weetjens, Christophe Cox, Andrew Sully, and **Negussie W. Beyene**, *Giant African Pouched Rats Find Landmines and Much More*, [Freedom from Fear, Number 6, March 2010](#), pp 40-41.
22. Bart J. Weetjens, Georgies F. Mgode, B. Witkind Davis, Christophe Cox, **Negussie W. Beyene**, *African giant rats for Tuberculosis detection: A novel diagnostic technology*, in: [Innovating for the Health of all: Global Forum Update on Research for Health Volume 6](#), pp 39-42, Pro-Brook Publishing, UK, 2009. ISBN: 978-2-940401-24-6.
21. Tesfaye Waryo, Petr Kotzian, Sabina Begić, Petra Bradizlova, **Negussie Beyene**, Priscilla Baker, Boitumelo Kgarebe, Emir Turkušić, Emmanuel Iwuoha, Karel Vytrás, Kurt Kalcher, *Amperometric Hydrogen Peroxide Sensors with Multivalent Metal Oxide-Modified Electrodes for Biomedical Analysis*, in [Chwee Teck Lim, James C.H. Goh \(Eds.\): ICBME 2008, Proceedings 23 \(2009\): 829-833](#).
20. Weetjens, B.J., Mgode, G.F., Machang'u, R.S., Kazwala, R., Mfinanga, G., Lwilla, F., Cox, C., Jubitana, M., Kanyhaga, H., Mtandu, R., Kahwa, A., Mwessongo, J., Makingi, G., Mfaume, S., Van Steenberge, J., **Beyene, N.W.**, Billet, M., Verhagen, R. *African Pouched Rats for the Detection of Pulmonary Tuberculosis in Sputum Samples*, [International Journal of Tuberculosis and Lung Disease 13 \(2009\): 737-743](#).
19. **Negussie W. Beyene**, *Comment on "Optimized microwave extraction for trace detection of 2,4,6-trinitrotoluene in soil samples" Chemosphere 71 (2008) 1701–1708*, [Chemosphere 73 \(2008\) 1570-1572](#).
18. Jacobus F. van Staden, **Negussie W. Beyene**, Raluca-I. Stefan, and Hassan Y. Aboul-Enein *Sequential Injection Spectrophotometric Determination of Ritodrine Hydrochloride Using 4-Aminoanitpyrine*, [Talanta 68 \(2005\) 401-405](#).
17. **Negussie W. Beyene**, Jacobus F. van Staden, Raluca-I. Stefan, and Hassan Y. Aboul-Enein, *Determination of Isoxsuprine Hydrochloride by Sequential Injection Visible Spectrophotometry*, [II Farmaco 60 \(2005\) 613-619](#).
16. Emir Turkusic, Josef Kalcher, Emira Kahrovic, **Negussie W. Beyene**, Helmut Moderegger, Emin Sofic, Sabina Begic, and Kurt Kalcher, *Amperometric determination of bonded glucose with an MnO<sub>2</sub> and glucose oxidase bulk-modified screen-printed electrode using flow-injection analysis*, [Talanta 65 \(2005\) 559-564](#).
15. **Negussie W. Beyene**, Jacobus F. van Staden and Raluca-I. Stefan, *Sequential Injection Spectrophotometric Determination of Etilefrine Hydrochloride*, [II Farmaco 59 \(2004\) 1005-1010](#).
14. **Negussie W. Beyene**, Petr Kotzian, Klemens Schachl, Hailemichael Alemu, Emir Turkusic, Amira Chopra, Helmut Moderegger, Ivan Svancara, Karel Vytras and Kurt Kalcher, *(Bio)sensors Based on Manganese Dioxide-Modified Carbon Substrates: Retrospections, Further Improvements and Applications*, [Talanta 64 \(2004\) 1151-1159](#).

13. **Negussie W. Beyene**, Jacobus F. van Staden and Raluca-I. Stefan, *Determination of Fenoterol Hydrobromide by Sequential Injection Analysis (SIA) with Spectrophotometric Detection*, [Anal. Chim Acta 521 \(2004\) 223-229.](#)
12. **Negussie W. Beyene** and Jacobus F. van Staden, *Sequential Injection Spectrophotometric Determination of Phenylephrine Hydrochloride in Pharmaceutical Preparations*, [Talanta 63 \(2004\) 599-604.](#)
11. Ghirma Moges, **Negussie W. Beyene**, Lo Gorton, Yirgalem Yigzaw, Kurt Kalcher, Abebaw Belay, Girma Akalu, Baboo M. Nair, and Theodros Solomon, *Glutamate oxidase advances the selective bio-analytical detection of the neurotoxic amino acid  $\beta$ -ODAP in grass pea: A decade of progress*, [Pure and Applied Chemistry 76 \(2004\) 765-775.](#)
10. **Negussie W. Beyene**, Helmut Moderegger and Kurt Kalcher, *Simple and Effective Procedure for Immobilization of Oxidases onto  $MnO_2$  Bulk-Modified Screen-Printed Carbon Electrodes*, [South African Journal of Chemistry, 57 \(2004\) 1-7.](#)
9. **Negussie W. Beyene** Helmut Moderegger and Kurt Kalcher, *Development of an Amperometric Biosensor for  $\beta$ -N-oxalyl-L, $\alpha$ , $\beta$ -diaminopropionic acid ( $\beta$ -ODAP)*, [Electroanalysis, 16 \(2004\) 268-274.](#)
8. **Negussie W. Beyene**, Helmut Moderegger and Kurt Kalcher, *A Stable Glutamate Biosensor Based on  $MnO_2$  Bulk-Modified Screen-Printed Carbon Electrode and Nafion<sup>®</sup> Film Immobilized Glutamate Oxidase*, [South African Journal of Chemistry, 56 \(2003\) 54-59.](#)
7. **Negussie W. Beyene** Helmut Moderegger and Kurt Kalcher, *A New Amperometric  $\beta$ -ODAP Biosensor*, [Lathyrus Lathyrism Newsletter 3 \(2003\) 47-49.](#)
6. Petr Kotzian, **Negussie W. Beyene**, Laura F. Llano, Helmut Moderegger, Paulino Tunon-Blanco, Kurt Kalcher and Karel Vytras. *Amperometric Determination of Sarcosine with Sarcosine Oxidase Entrapped with Nafion<sup>®</sup> on Manganese Dioxide-Modified Screen-Printed Electrodes*, **Scientific Papers of the University of Pardubice Series A, 8 (2002) 93-101.**
5. Wondwossen Simie, Wondwossen Abate and **Negussie Wodajo (Negussie W. Beyene)**, *Evaluation of Copper Sulfate as a Screening Method for Anemia in Pregnant Women Attending Antenatal care at Jimma Health Center, Jimma Zone, Ethiopia*, [Ethiop. J. Health Sci., 11 \(2001\) 37-46.](#)
4. Abdusemed Abdurahman, Getnet Beyene, and **Negussie Wodajo (Negussie W. Beyene)**, *Comparative Study of Direct Sputum Microscopy with Different Sample Pre-treatment Procedures for Examination of Acid-Fast Bacilli (AFB)*, [Ethiop. J. Health Sci., 10 \(2000\) 15-18.](#)

3. Ibrahim Ali, Girma Mekete and **Negussie Wodajo (Negussie W. Beyene)**, *Intestinal parasitism and Related Risk Factors among Asendabo Elementary and Junior Secondary School, Southwestern Ethiopia*, [Ethiop. J. Health Dev.](#), **13 (1999)** 157-161.
2. **Negussie Wodajo (Negussie W. Beyene)**, Ghirma Moges and Theodros Solomon, *Comparative Study of Aqueous Extractions of the Neurotoxin  $\beta$ -ODAP from Grass Pea Assayed by Flow Injection Analysis*, [Bull. Chem. Soc. Ethiop.](#) **11 (1997)** 151-154.
1. **Negussie Wodajo (Negussie W. Beyene)**, Ghirma Moges and Theodros Solomon, *Protein Precipitation Methods for Sample Pretreatment of Grass Pea Extracts*, **Bull. Chem. Soc. Ethiop.** **10 (1996)** 129-134.