Pneumococcal OPKA Library

Romero-Steiner, S., et al. 1997. Standardization of an Opsonophagocytic Assay for the Measurement of Functional Antibody Activity against *Streptococcus pneumoniae* Using Differentiated HL-60 Cells. CDLI. **4(4)**:415-422. This paper describes the reference OPKA using differentiated HL60 cells as effectors.

Romero-Steiner, S., et al. 2003. Multilaboratory Evaluation of a Viability Assay for Measurement of Opsonophagocytic Antibodies Specific to the Capsular Polysaccharides of *Streptococcus pneumoniae*. CDLI. **10(6)**:1019-1024. This paper contains the results of a multi-laboratory analysis of the reference OPKA.

Fleck, R., et al. 2005. Use of HL-60 Cell Line To Measure Opsonic Capacity of Pneumococcal Antibodies. CDLI. **12(1)**:19-27. This review details the history and characteristics of the HL60 cell line used in the OPKA.

Burton R.L., et al. 2006. Development and Validation of a Fourfold Multiplexed Opsonization Assay (MOPA4) for Pneumococcal Antibodies. CVI. **13(9)**:1004-1009. This paper describes the procedure and validation of the four-serotype OPKA.

Romero-Steiner, S, et al.2006. Use of Opsonophagocytosis for Serological Evaluation of Pneumococcal Vaccines. CVI. **13(2)**:165-169. This review summarizes the presentations and conclusions of a pneumococcal OPA workshop held in June, 2005, in Atlanta, Georgia, USA. To view the meeting agenda and individual presentations, click here.

Schuerman, L., et al. 2007. ELISA IgG Concentrations and Opsonophagocytic Activity Following Pneumococcal Protein D Conjugate Vaccination and Relationship to Efficacy Against Acute Otitis Media. Vaccine. **25**:1962–1968. This study measured anti-capsule antibody levels by both ELISA and OPA and correlates these values to efficacy against acute otitis media.