

REFERENCES

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Affronti, L.F.; Pariett, R.C. and Cornesky, R.A. (1965):
Electrophoresis on polysacrylamide gels of protein and polysaccharide fractions from M. tuberculosis. Am. Rev. Respir. Dis. 91:1-5.

Affronti, L.F. Earl, H.F., and Grow, L (1973):
Serodiagnostic test for tuberculosis. Amer. Rev. of Respir. Dis.; Vol. 107.

Al-Tawil, N.G. and Thewaini, A.J.A. (1978):
Study of immunological status of patients with pulmonary tuberculosis. Scand. of Immunol. 8:833.

Alacron-Segovia, D. and Fishbein, E. (1971):
Serum immunoglobulins in Pulmonary tuberculosis. Chest. 60:133.

American Trudeau Society, (1944):
Report of the committee on standard laboratory Procedures. Dr. Henry, S.W., Dr Woodroll, C.E. Reporting sputum examination. A.M. Rev. of Tubercule; 50:456.

Amos, H.E.; Gurner, B.W.; Olds, R.J. and oombs, R.R.A. (1967):
Passive sensitization of tissue cells. II Ability of cytophilic antibody to render the migration of guinea pig peritoneal exudate cells inhibitable by antigen. Arch. Allergy App. Immunol., 32:496-505.

Arloing, S. (1998):
Agglutination de bacille de la tuberculose vraie. Comptes rendus de l'Académie de sciences: 126: 1398-400, Coated from (Panniel, Debanne, 1987).

Asano A., Cohe N.S., Barker R.E., and Brodle A.F. (1973):

Orientation of the cell membrane in ahosts and electron trasport particles of Mycobacterium phiel J. Biol.Chem., 248, 3386-97.

At Well, R.J. and Prott, P.C. (1960):

Unclassified mycobacteria in the gastric contents of healthy personal and patients of tuberculous hospital. Am. Rev. Res. Dis., 81:888.

Bailey W.R., and Scott E.G. (1983):

Diagnostic microbiology, atext book for the Isolution and Identification of Pathogenic microorganisms 4th ed., The C.V. Mosby company, Saint Louls.

Bailey, W.R. (1984):

Clinically derived my cobacterial classifications. chest 85(5):715.

Balestrino, E.A.; Daniel;T.M.; Latin, M.D.S. and Scocoza, J.B. (1984):

Serodiagnosis of pulmonary tuberculosis in Argentina by enzyme-linked immnosorbent assay (ELISA) of IgG antibody to Mycobacterium tuberculosis antigen 5 and tuberculin purified protein derivative. Bull. WHO. 62:755-61.

Bardana, E.J.; Mclatchy,J.K.; Farr, R.S. and Minden, P. (1973):

Universal occurrence of antibodies to tubercle bacilli in sera from non-tuberculous and tuberculous individuals. Clin. Exp.Immunol., 13:65.

Basten, A.; Warner, N.L. and Mandel, T.(1972):

A receptor for antibody on B-lymphocytes, Immunochemical and electromicroscopy characteristics. J. Exp. Med.; 135:627-42.

Baum G.L. (1974):

Tuberculin test Text of pulmonary disease Little Brown Company Boston P. 297.

Benjamin, R.G. and Daniel, T.M. (1982):

Serodiagnosis of tuberculosis using enzyme-linked immunosorbent assay (ELISA) of antibody to Mycobacterium tuberculosis antigen 5. Amer. Rev. of Resp. Dis.; 126:1013-16.

Bhardwaj O.D.; Shirniwas L., Srivastava V.K. Balakrishnan K., (1981):

Soluble antigen fluorescent antibody (SAFA) test in serodiagnosis of disseminated and extrapulmonary tuberculosis. Ind., J. Med. Res, 73:150-6.

Bhattachaya, A.; Ranadive, S.N.; Kala M.; and Bhattacharya, S.(1985):

Antibody Based Enzyme linked immunosorbent Assay for detection of immune complexes in clinical tuberculosis. AM, Rev. of Res. Dis, 134:205-9.

Birnbaum, S.E. and Affronti, L.F. (1970):

Mycobacterial polysaccharides. I. Serological and skin testing studies on mycobacterial polysaccharides. Int. Arch. Allergy Appl. Immunol. 37:88-97.

Bishop, E. (1970):

The history of Z.N. Stain. Tubercle. London 15:196.

Bloom, B.R. (1971):

In vitro approaches to the mechanism of cell mediated immune reactions. Adv. Immunol.; 13:101.

Boucot K.R., Dillon E.S. Cooper D.A. (1952):

Tuberculosis among diabetes. The philadelphian survey. Am. Ren. Tuberc, 65 (2): 1050.

Brinbaum, S.E. and Affronti, L.F.(1968):

Chemical and serological relationships between the heteropolysaccharides of M. tuberculosis and M. Kansasii. J. Bacteriol.95:559-564.

Broom, D.H. ; Schultz, D.R. and Zarco, R.M.(1970):

The separation of nine components and two inactivators of components in human serum. Immunochemistry, 7:43.

Brostoff J., Lenzini L.P., and Rottoli R.L., (1981):

Immune complexes in the spectrum of tuberculosis Tubercle, 62:169-174.

Buchanan R.E., Gibbons N.E., (1974):

Bergey's Manual of Determinative Bacteriology 8th ed., Baltimore: The Williams and Wilkins Co. p. 688.

Burnet, N.S. (1978):

Infection with Bacillus calmetteguerin activates murine thymus independent (B) lymphocytes J. of immunology 120(1):254-61.

Chang Y.T., and Anderson R.N (1969):

Morphological changes of Mycobacterium lepraemurium grown in cultures of mouse Peritoneal macrophages. J. Bacteriol., 99:867-75.

Chaparas, S.D. (1979):

Pourquoi des antigenes monospecifiques pour les tests cutanes tuberculiniques n'ont pas été isolés. Bull. Int. Union. Tuberc., 54(2):164-71. Cited from Topley and Wilson's Principles of bacteriology, virology and immunology, 7th edition, Vol. 2. Edited by M.J.Parka, 1984.

Chapman, J.S. (1982):

Atypical mycobacteria. Am. Rev. Resp. Dis. 125(3):119.

Chen, C. and Hirsh, J.G. (1972):

Restoration of antibody-forming capacity in cultures of nonadherent spleen cells by mercaptoethanol. Science, 176:6.

Comstock, G.W. (1964):

Community research in tuberculosis. Muscogee County, Georgia. Public Health Rep., 79:1049.

Cook G.C. (1985):

Tuberculosis, certainly not a disease of the past 10. J. Med. 56:519-521.

Coper H.J., and Cohn M.L.(1933):

The viability and virulence of old cultures of tubercle bacilli: studies on twelve year broth cultures maintained at incubator temperature. Am. Rev. Tuberc., 28:856-74.

Corper, H.J., and Cohn.M. (1933):

Routine clinical examination of tubercle bacilli in microscopic negative sputum by Various culture methods. J. Laboratory clin. Med. 18-515.

Coutinho, A.; Gronowicz, E.; Bullock, W.W. and Moller, G. (1974):

Mechanisms of thymus independent immunocyte triggering mitogenic activation of B-cells. results in specific immune response. J. Exp. Med., 139:73-92.

Crofton S.J., and Douglas, A. (1981):

Post primary pulmonary tuberculosis. Respiratory diseases. Third Edition, Black well scientific Publication, Oxford, London, Edinburgh, Boston, Melbourne.

Cruickshank D.B. (1952):

In Modern practice of tuberculosis, P. 53 Ed., by sellors T.H. and Livingstons J.L., Butter Worth London.

Cummins C.S. (1962):

Chemical composition and antigenic structure of cell walls of Corynebacterium, Mycobacterium, Nocardia, Actinomyces and Arthobacter. J. Gen. Microbiol. 28:35-50.

Daniel, T.M. and Baum, G.L. (1968):

The immuoglobulin response to tuberculosis molecular characterization of haemagglutinating antibody to tuberculopolysaccharide in sera from patients. Amer. Rev. Resp. Dis.; 98:677.

Daniel, T.M. and Affronti, L.F. (1973):

Immunoelectrophoretic analysis of antigenic constituents of Seibert fractions of mycobacterial culture filtrates. Identification with the Prepared United States, Japan Reference Nomenclature. Rev. Respir. Dis 108:1244-1248.

iel, T.M. and Anderson, P.A. (1978):

The isolation by immunoabsorbent affinity chromatography and physiochemical characterization of Mycobacterium tuberculosis antigen 5. Am. Rev. Resp. Dis.; 117:533-9.

iel, T.M. and Janicki, B.W. (1978):

Mycobacterial antigens: a review of their isolation, chemistry and immunological properties. Microbiol. Rev. 42:84-113.

iel, T.M. (1980):

The immunology of tuberculosis. Clin. Chest Med.; 1:189-201.

niel, T.M.; Oxtoby, M.J., Pinto, E.; Moreno, E. (1981):

Immune spectrum in patients with pulmonary tuberculosis Am. Rev. Res. Dis., 123:556-59.

aniel, T.M.; DeMurillo, GL.; Sawyer, J.A.; Priffin, A.M., Pinto, E.;

Debane, S.M.; Espinosa, P. and Cespedes. E. (1986):

Field Evaluation of Ezyme - Linked Immunosorbent Assay for serodiagnosis of tuberculosis. Am. Rev. Res. Dis. 134:662-65.

Daniel, T.M. and Debann, S.M.(1987):

The serodiagnosis of tuberculosis and other mycobacterial diseases by enzyme-linked immunosorbent assay. Am. Rev. Respir. Dis. 135:1137-1151.

Dannenberg,, A.M. (1968):

Cellular hypersensitivity and cellular immunity in the pathogenesis of tuberculosis specificity, systemic and local nature, and associated macrophage enzymes. Bact.Review, 32:85.

David, J.R. (1973):

Lymphocyte mediators and cellular hypersensitivity. N. Engl. J. Med. 288:143-49.

Davis, S.D.; Iannette, A. and Wedgwood, R.J. (1972):

Bactericidal reactions of serum. In: D.G. Ingram (ed.), Biological activities of complement.Basel, Karger.

Diena, B.B. (1968):

Serology in tuberculosis and the bentonite flocculation test. Can. Med. Assoc. J., 99:763-64.

Dienes, L. and Mallory, T.B.(1967):

The influence of allergy on the development of early tuberculous lesions Am. J.Pathol., 13:897.

Dold (1947): Quoted by Ismail, Z. (1983):

Some immunological studies in tuberculosis. M.D. Thesis. Clinical Pathology Department Faculty of Medicine, Assiut University.

Dongerey. L.R., and Bhatia J.L. (1981):

Symptomatology in tuberculosis. In Rao K.N., Viswanathan R., Son P.K., Deshmukh M.D., Bordia N.L.Para S.P. and Dengley H.B.,(1981): Textbook of tuberculosis, 2nd ed.,Vikas Pulising house PVT LTD.

Draz I.M. (1988):

Serodignosis of suspected cases of pulmonary tuberculosis by ELISA. M. Sc. Thesis, chst Dept., Faculty of Medicine AL Azhar University.

Duboczy, B.O. and White, F.C. (1969):

Further studies with the direct latex agglutination test in tuberculosis. Amer. Rev.Resp. Dis.; 100:364-371.

Dubos, & R.J. and Middle - Brook, G. (1947):

Media for tubercle bacilli. Am. Rev.Res.Dis., 56:334.

Ebeid, (1985):

Serum factors (s) in tuberculous and leportic patients which suppress cel mediated immunity. M.D. Thesrs, Microbiology Dept., Faculty of Medicin, Al-Azhar University.

Egvall, E. and Pearlman, P. (1971):

Enzyme linked immunosorbent assay (ELISA) quantitative assay immunoglobulin G. Immunochemistry. 8:871-4.

El-Sayed, F.A.B.H. (1982):

The study of value of fluorescence microscopy in diagnosis of Pulmonary tuberculosis. Master Degree thesis in chest Dis, tuberc.

Engval, E., and Perlman, P. (1972):

Enzyme linked imunosorbent Assay, III Quantitation of specific antibodies by enzyme labelled anti-immunoglobulin in antigen coated tubes. J. Immun. 109:29.

Esmat, M.M.; El-Alamy, M.A. and Magahed, G.M. (1971):

The tuberculin test, a trial to find the most suitable dose. Comparison between one and two units. Egypt. J. chest Dis. Tuber. Vol. 141, No. I.

Esmat, M.M.; El-Maraghy, A.S. and Roberts, A. (1975):

The fourth chemotherapy investigation of the international union against tuberculosis as applied in Egypt "part II intermittent supervised chemotherapy. Egypt. J. of chest Diseases, Tuberc. Jul. 18:2.

Esmat, M.M.; and El-Maraghy, H.S. (1978):

Follow up of sputum analysis and the effect of rifampicin" Egypt J. of chest Disease, Tuber, January, 21, 1:p. 11.

Evans, D.G. and Myrvik, G.N. (1967):

Increased phagocytic and bactericidal activities of alveolar macrophages after vaccination with killed B.C.G.J. Reticuloendothelial Soc., 4:428.

Faulkner, J.B.; Carpenter, R.L. and Pantonde, R.A. (1967):

Serum proteins and immunoglobulin levels in tuberculosis. Am. Journal of Clinical Pathology., 48:556.

Faves, G.S. Je guire, S., and Vulliemoz P. (1966):

Demonstration and Discrimination of distinct circulating antibodies during active tuberculosis in man. Am. rev. Res. Dis., 64:905-13.

Feldman, M. and Basten, A. (1971):

The relationship between antigenic structure and the requirement for thymus derived cells in the immune response.. Exp. Med., 134:103-19.

Feldman, M. (1972):

Cell interactions in the immune response in vitro. V. Specific collaboration via complexes of antigen and thymus-derived cell immunoglobulin. J. Exp. Med. 163:737-760.

Fishman, A.F. (1980):

Pulmonary disease and disorders. Vol. 2, p.1265. McGraw Hil Company, New York.

Foster, D.W. (1987):

Diabetes mellitus section "2". Endocrinology. Harrison's principles of internal Medicine Eleventh Edition. 1779.

Freedman, S.O.; Turcotte, R.; Fish, A.J. and Schon, A.H. (1963):

The in vitro detection of cel-fixed protein derivative P.P.D. in humans. J. Immunol. 90:52.

Fregnan G.B. and smith D.W. (1962):

Imunogenicity and allergenicity in guinea pig of adefatted mycobacterial vaccine and its fractions. Am. Rev.Resp.Dis. 87, 877.

Fudenberg, H.; Pink, I.R.L.; Wang, A.C.and Douglas, S. (1978):

In Basic immunogenetic. 2nd ed. p. 1-262. Oxford press, New York.

Garcia-Garreno, F.L.; Carvajal, R.E. and Hernandez, R. (1986):

Enzyme-immunoassay using BCG in serodiagnosis of pulmonary tuberculosis. J. Hyg. Comb. 97:483-87.

Gatner, E.M.S. and Anderson, R. (1980):

An in vitro assessment of cellular and humoral immune function in pulmonary T.B. Correction of defective neutrophil motility by ascorbate, levamisol. metoprolol and propranolol. Clin.Exp. Immunol. 40:327-36.

Giertz, H. (1969):

Pharmacology of anaphylatoxin. In: H.Z. Movat (ed.)
Cellular and humoral mechanism in anaphylaxis and
allergy. Basel, Karger.

Grange, J.M.; Gibson, J.; Batty, A. and Kardjito, T. (1980):

The specificity of the humoral immune response to
soluble mycobacterium antigens in tuberculosis.
Tubercle 61:153-56.

Grange, J.M. (1984):

Tuberculosis. Topley and Wilson's Principles of
bacteriology, virology and immunology, 7th edition, Vol.
3. Edited by G.R. Smith, 1984. Ch. 51.

Hangmann, (1937):

Munch, Med. Wachr., 85:1066 Cited from: Wilson G.,
Miles A., and Parker M. (1983): Topley Wilson's
principles of Bacteriology, Virology and Immunity. 7th
ed, Vol. 2 Edward Arnold Buren and Tanner Ltd
London, p. 60-93.

Hanks, J.H. and Evan, B. (1940):

The action of serum, cells and blood on acid fast
bacteria in vitro. Am. Rev. Tuberc. 41:605.

Harboe M., Closs O., Bjorvatn B., Byrnes G. (1977):

Antibodies against BCG antigen 60 in mycobacterial
infection. Br. Med. J. 2:430-33.

Harshey R.M., Remakishnan L., and Wayne L.G. (1977):

Rate of ribonucleic acid chain growth in M. tuberculosis
H 37 Rv. J. Bacteriol. 129:616-22.

Hassan M.F. (1984):

Study of the effect of rifampicin on cell-mediated Immune response in patients with pulmonary tuberculosis. M.D, Thesis, Chest Dept. Cairo University.

Heney, G.S. (1973):

On the mechanism of T-cell mediated cytotoxicity. Transplant. Rev., 17:37-70.

Henson, L.A.; Borssen, R.; Holmgren, J.; Jodal, V.; Johansson, B.G. and Kajser, B. (1972):

Secretory IgA in B.M. Kagen and E.R. Stim (eds). Immunologic Incompetence. Chicago, Year Book.

Hill, A.B.; Wright, S. and Lewis, P.A. (1940):

The inheritance of resistance to bacterial infection in animal species. J. Exp. Med., 47:437.

Hoffmann, M. and Dutton, R.W. (1971):

Immune response restoration with macrophage culture supernatants. Science. 172:1047.

Hosny H.Y., Bishai, S. and Azar, S. (1973):

A survey project of tuberculosis in Arab El Mohamady The Egypt. J. of Chest Dis, Tuber, Volume 16, No. 2.

Imaeda T., Kanestuna F., and Calindo B., (1968):

J. ultrastruct. Resp., 25, 46, Cited From: Wilson G. Miles A., and Parken M. (1983): Topley wilson's principles of Bacteriology, Virology and Immunology, 7th ed., Vol. 2 Edward Arnold. Butler and Tannen Ltd London and London, p. 60-93.

Ismail, Z.A. (1983):

Some immunological studies in tuberculosis. M.D. Thesis. Clinical Pathology Department, Faculty of Medicine, Assiut University.

Jaswant - Singh T., (1975):

A Socio medical study fo the behavior and symptoms of tuberculosis patients prior to reporting at specialized agencies paper presented at 30th National conference of tuberculosis and chest Diseases Hyderabad.

Jawetz, E.; Melnick, J.L. and Adelerg, E.A. (1987):

Review of Medical Microbiology, 14th ed. Imunity and Hypersensitivity in Tuberculosis. p. 222.

Joklik, W.K.; Willett, H.P. and Amos, D.B. (1980):

Zinsser Microbiology (17th ed.). Mycobacterium tuberculosis, p. 651-673. Appleton-Century Crofts. New York.

Joklik W.K., Willett H.P. and Amos D.B. (1984):

Zinsser microbiology 8th ed., Appleton Century - Corfts /Nor Walk, Connecticut.

Julin, I. (1960):

Methods of growing and typing of mycobacteria, differentiation of anonymous mycobacteria in groups, subgroups or types. Acta. Path. Microbiol. Scan., 50:195.

Kalish, S.B.; Radin, R.C.; Levitz, D.; Zeiss, C.R. and phair, J.P. (1983):

The enzyme-linked immunosorbent assay method for IgG antibody to purified protein derivative in cerebrospinal fluid of patients with tuberculous meningitis. *Ann. Intern. Med.*, Nov. 99(5):630-3.

Kaplan, M.H. and Chase, M.W. (1980):

Antibodies to mycoacteria in human tuberculosis. Development of antibodies before and after antimicrobial therapy. *The J. of Infec. Dis.*; 140, 825.

Kardjito, T.; Handoyo, I. and Grange, J.M. (1982):

Diagnosis of active tuberculosis by immunological methods. The effect of tuberculin reactivity and previous BCG vaccination on the antibody levels determined by ELISA. *Tubercle. Dec.*; 63(4): 269-74.

Katz, P., Goldstein, R.A. ^α And Fauci A.S. (1979):

Imunoregulation in infection caused by *Mycobacterium tuberculosis*. The personce of suppresson monocyte and alteration of subpopulation of T-lymphocytes. *J. Inf. Dis.*, 140:12-21.

Kinyoum, J.J. (1915):

Anotey on method for sputum examination for tubercle bacilli. *Am. J. Pup. Health.*, 5:867.

Kirant U. Shriniwas L., Kummar R., and Sharma A., (1985):

Efficay of three mycobacterial antigens in the serodiagnosis of tuberculosis. *Eur. T. Resp. Dis.*, 66:187-95.

Klun, C.L. and Youmans, G.P. (1973):

The effect of lymphocyte supernatant fluids on the intracellular growth of virulent tubercle bacilli. J. Reticuloendothel. Soc.; 13:310.

Knier, W.T. (1965):

The use of ion-exchange chromatography for mycobacterial antigen isolation. Am. Rev. resp. Dis. 92 (Part 2): 18.

Kock, R. (1891):

Cited from Topley and Wilson Principles of Bacteriology and Imunity. 6th ed. (1975): p. 1736. The Williams and Wilkins Co. Baltimore.

Kohler, P.F. and Ten Bonsel, R. (1969):

Serial complement component alternations in acute glomerulonephritis and systemic lupus erythematosus. Clin. Exp. Immunol. 4:192.

Kosunen, T.U.; Waksman, B.H. and Flax, M.H. (1963):

Delayed reaction to tuberculin and purified protein in the rat and guinea pig. Immunol., 6:276.

Krambovitis E., (1986):

Detection of antibodies to M. tuberculosis plasma membrane antigen by ELISA. J. Med. Microbiol., 21:257-64.

Kvale P.A., M.D.; F.C.G.P.; Johanson, M.C.; M.D. and Wroblewski D.A. (1979):

Diagnosis of Tuberculosis : Routine cultures of Bronchial Washing are not Indicated. Chest; 76:2, August.

Leff A.R. and D.R Leff (1986):

Tuberculosis, a reflection of political institutions and social concerns in the united states. Perspect. Biol. Med. 30: 27-39.

Lefford, M.J.MC.; Gregor, D.D. and Mackaness, G.B. (1973):

Immune response to Mycobacterium tuberculosis in rats. Infec. Immunol., 8:182.

Lurie J. (1955):

Quoted by Ismail Z. (1983): Clinical Pathology Department. Faculty of Medicine, Assiut University.

Machenaness, G.B. (1964):

The immunological basis of acquired cellular resistance. J. Exp. Med., 120:105.

Macleane, R.A. (1975):

Tuberculin testing antigens and techniques. Chest 69(Suppl.) 455-59.

MacLennan, I.C.M. (1972):

Antibody in the induction and inhibition of lymphocytes cytotoxicity. Transplant. Rev., 13:67-90.

Malomo, L.M.; McFarlane, H. and Idowu, J.A. (1970):

Serum immunoglobulins in pulmonary tuberculosis in Ibadan, Nigeria. Transactions of the Royal Society of Tropical Medicine and Hygiene, 64:427.

Marks, J. (1972):

Classification of mycobacteria in relation to clinical significance. *Tuber. Lond. S.* 53:259.

Mattman (1970):

Ann. N.I. Acad. Sci. 174, 852. Cited from. Wilson B.S., Miles A.A., and Panker M.T., (1983) *Topley and Wilson's principles of bacteriology, Virology and Immunity 7th Volume* Butlen and Tanner Ltd. from and London, p. 60-93.

Mccorthy C., (1971):

Utilization of Palmitic acid by *Mavium Inf.* *Immun.* 4:199-204.

Mehata, P.K. and Khuller, G.K. (1988):

Serodiagnostic potentialities of enzyme-linked immunosorbent assay (ELISA) using mannophosphorinositides of *Mycobacterium tuberculosis H37Rv.* *Med. Microbiol. Immunol.* 177:285-92.

Middlebrook G., Dubos R. and Pierce C. (1947):

Virulence and morphological characteristics of mamalian tubercle bacili. *J.Exp. Med.* 86:175-84.

Middlebrook, G. and Dubos, R.J. (1948): Specific serum agglutination of erythrocytes sensitized with extracts of tubercle bacilli. *J. Exp. Med.* 88:521.

Misaki, A. and Azuma, I. (1974):

Structure and immunological properties of antigenic polysaccharides of mycobacterium species. *Abstr. VII Int. Symp. Carbohydr. Cem. Oratislava, Cachoslovakia,* p. 202.

Misaki, A.S.; Yukawa, K.; Tsuchiya and Yamasaki, T. (1966):
Studies on cell walls of Mycobacterium. I. Chemical and biological properties of cell walls and the mucopeptide of BCG. J. Biochem., 59:388-396.

Mohamed, M.T. (1983):
Immune response in tuberculosis. Master of Ch. Thesis. Bacteriology Department, Faculty of Medicine, Assiut University.

Moller, G. (1974):
Effect of B-cell mitogen on lymphocyte sub-populations possessing C3 and Fc receptors. J. Exp. Med., 139:969-82.

Much, (1907):
Bletr. Klin. Tuberk., 8,85. Cited from Wilson G., Miles A., and Parker M.T. (1983): Topley and Wilson's Principles of bacteriology, Virology and Immunity, 7th ed. Vol.2 Edward Arnold Butlor and Tanner Frome and London P. 60.

Mudd S., Winterscheid L.C., Delamater E.D., and Henderson H.J. (1951):
Evidence suggesting that the granules of Mycobacteria are mitochondria. J. Bact., 62 459-76.

Nash, D.R., (1979):
Serum imunoglobulins abnormal lities in patients with respiratory tract disease. Ann. Clin. Res. 11:49.

Nassau, E. et al (1976):
The detection of antibodies to mycobacterium tuberculosis by ELISA. Tubercle 57:67-70. Coated from Balestrino et al 1984.

Nassau, E., Parsons, E.R and Johnson, G.D. (1976):

The detection of antibodies to Mycobacterium tuberculosis by microplate enzyme linked immunosorbent assay (ELISA). Tubercle, 57:67.

Neelsen (1983):

Ein caustischen Beitrag Zur lehre Von der Tuberkulose. Contraibl. Fd. Med.Wissensch, Berl., 21, 497.

Neiburger, R.G. and Youmans, A.S. (1973):

Relationship between tuberculin ypersensitivity and cellular immunity. Infet. Immun., 8:42.

Nelson, D.S. (1976):

Imunobiology of the macrophage. p.235.Academic Press, New York-San Francisco-London.

Nicholls, A.C. (1975):

A serodiagnostic test for tuberculosis. J.Clin. Path., 28, 850-853.

Nossal, G.J.V. and Ada, G.L. (1971):

Antigens, lymphoid cells and the immune response.p 170-195. Academic Press Inc., New York.

Nossal, G.J.V. Warner, N.L. and Lewis, H. (1973):

Incidence of cells simultaneously secreting IgM and IgG antibody to sheep erythrocytes. Cell Immunol., 2:41-53.

Nussenzwig, V.; Bianco, C.; Dukor, P. and Eden, A. (1971):

Receptors for C3 on B-lymphocytes in possible role in the immune response.p 37-82. In B. Amos (ed.), progress in immunology. Academic Press Inc., New York.

Oerskov J., (1932):

Zbl. Bakt., 123:271, Cited from: Wilson G., Miles A., and Parker M., (1983): Topley Wilson's Principles of Bacteriology, Virology and Immunology 7th ed., Vol. 2 Edward Arnold. Butler and Tanner Ltd Frome and London, p. 60-93.

Page, W.; Simonds, F.A.H.; Macdonald, N., and Nassau, E. (1964):
Pulmonary tuberculosis 4th ed. Lond Oxford University Press, P. 272, 484.

Palmer, C.E. and Hopwood, (1962):

Effect of previous infection with unclassified mycobacteria on survival of guinea-pigs challenged with virulent tubercle bacilli. Bull. Int. Un. Tuberc. 32:398.

Pamra S.P., Prasad G. and Mathur G.P. (1970):

Relapse in pulmonary tuberculosis. Am. Rev. Resp. Dis., 113:67-72.

Pamra, S.P.; Goyal, S.S. and Mathur, O.P. (1977):

Extent and pattern of tuberculosis amongst children. Ind. J. Tuberc., 24:75-77.

Patterson, R.J. and Youmans, G.P. (1970):

Demonstration in tissue culture of lymphocyte mediated immunity to tuberculosis. Infect. Immun.; 1:600.

Paull, A. (1973):

An environmental study of the opportunist mycobacteria. Med. Lab. Techn., 30:11.

Perlman, D.; Perlmann, H. and Wigzell, H. (1972):

Lymphocyte mediated cytotoxicity in vitro, induction and inhibition by humoral antibody and nature of effector cells. *Transplant. Rev.*, 13:91-114.

Gudin, J. and Michel, M. (1969):

Idiotypic of rabbit antibodies. *J. Exp. Med.* 130:619-42.

Radin, R.C.; Zies, C.R. and Phair, J.P. (1983):

Antibodies to purified protein derivative in different immunoglobulin classes in the diagnosis of tuberculosis in man. *Int. Arch. Allergy Appl. Immunol.* 70:25-29.

Rao, K.N.; Viswanathan, .; Desmukh, M.D. Pamra, S.P.; Sen, R.K. Bordia, N.L. and Dingley, H.B. (1981):

Textbook of tuberculosis. The Tuberculous Association of India. Vikas Publishing House, New Delhi. 2nd edition.

Rappaport H. and Khalil, A. (1976):

The immunoproliferative response of mice to intravenously or subcutaneously injected B.C.G. *Cancer Immunol. Immunother.* 1:45.

Redmond W.B. (1957):

Studies on autolysis of mycobacteria II. Autolysis of various Pathogenic and non-pathogenic strains grown in a medium deficient in nitrogen. *J. Bacteriol.* 73:279-83.

Reggiardo, Z.; Vazquez, E. and Schnaper, L. (1980):

ELISA tests for antibodies against mycobacterial glycolipids. *J. Immunol. Methods*; 34:55-60.

Reggiardo, Z.; Abder, V.R.; Mitchison, D.A. and Davis, M. (1981):
Hemagglutination tests for tuberculosis with mycobacterial glycolipid antigens. Amer. Rev. Resp. Dis.; 124:21-25.

Rich, A.R. (1951):
The pathogenesis of tuberculosis. 2nd edition. Springfield, Ill, Charles C. Thomas.

Rizk, N.N.(1981):
Possible delay in the diagnosis of pulmonary tuberculosis.M.D. Thesis of chest Disease, Cairo University.

Robbins M.L. Amako K. Muraoka S., and Takeya K., (1970):
In Host - Virus relationships in mycobacterium, Nocarida and Actinomyces P. 103 Ed. by Juhasz S.E. and Plummer G. Chapter C Thomas springfield, Ill.

Robson J.M., and Sullivan. (1957):
Quantitative studies on the multiplication of tubercle bacilli in vivo. Am. Rev. Tuberc. 75:765-67.

Roitt, I.M. (1977):
Essential Immunology. 3rd ed. Blackwell Scientific Publications Oxford-London Edinburgh - Melbourne.

Rook, G.A.W.; Bahr, G.M. and Stanford, J.L. (1981):
The effect of two distinct forms of cel-mediated response to mycobacteria on the protective efficacy of B.C.G. Tubercle, 62:63-8.

Runyon, E.H. (1959):
Anonymous mycobacteria in human disease.Med. Clinic. North America; 43:273.

Schubert J. and Brasher, C. (1967):

An appraisal of serological tests for tuberculosis using agar gel and complement fixation procedures. Am. Rev. Resp. Dis.: 96:745-50.

Seibert, F.B. and Glenn, J.T. (1941):

Amer. Rev. Tuberc., 44, 9. Cited from Topley and Wilson's Principles of bacteriology, Virology and immunology, 6th edition, 1975, p 1736. The Williams and Wilkin Co. Baltimore.

Seibert, F.B.; and Glenn, J.J. (1941):

Tuberculin Purified Protein Derivatives. Am. Rev. Resp. Tuberculosis 44: 9-25.

Sever J.L., and Youmans G.P. (1957):

Enumeration of viable tubercle bacilli from the organs of non-immunized mice. Am. Rev. Tuberc., 76:616-35.

Slato T. and Suter K. (1965):

Quoted by Moamed, M.T. Thesis, 1983. Bacteriology Department, Faculty of Medicine, Assiut University.

Soltys (1953): Cited from Ismail Z.(1983):

Immunological studies in tuberculosis. M.D. Thesis. Clinical Pathology Department. Faculty of Medicine, Assiut University.

Somlo A.M. Black T.C., Somlo L.I. (1969):

The value of fluorescence microscopy in the detection of acid fast bacteria. Techn. Bull. Regist. Med. Techn., 33:51-4.

Spector, W.G. (1969):

The granulomatous inflammatory exudates. Int. Rev. Exp. Pathol., 8:1-55.

Stanford, J.L. and Beck, A. (1968):

An antigenic analysis of the Mycobacteria, *Mycobacterium fortuitum*, *Myco. Kansasi*, *Myco. Phlei*, *Myco. Semegmatis* and *Myco. tuberculosis* J. path. Bact. 95:131.

Stanford J.L., and Grange J.M., (1974):

The meaning and structure of species as applied Tuber.. to mycobacteria Tuber., 55:143-145.

Stoebel, A.B.; Daniel, T.M.; Lan, J.H. and Richardson, H. (1982):

Serological diagnosis of bone and joint tuberculosis by ELISA. J. of Infect. Dis. 146(2):280.

Sweeney M.C., (1928):

Report committee on standard laboratory procedures Am. Rev. Tuberc., 17, 53-59.

Takahashi and one K., (1961):

Study on the passive hemagglutination reaction by the phosphatide of *M. tuberculosis*. Am. Rev. Res. Dis., 83:381-86.

Takahashi Y., (1962):

Study of the agglutination and passive haemagglutination of *M. tuberculosis*. I. the reaction and its specificity. Am. Rev. Resp. Dis., 83:381-95.

Tandon, A.; Saxena, R.P. and Saxena, K.C. (1980):

Diagnostic potentialities of enzyme-linked immunosorbent assay in tuberculosis using purified tuberculin antigens. Tubercle. 61:87-89.

Thomson (1932):

Cited by Hesham, H.M.: Isolation and characterization of mycobacteria in Egyptian environment. Master thesis, Faculty of Veterinary Medicine, Cairo University, 1981.

Thongkrasai P., Lulitanon V., and Chamnovarkit C., (1989):

Improved ELISA with immunosorbent purified mycobacterial antigen for serodiagnosis of tuberculosis. J. Med. Microbiol., 30:101-104.

Topley, W.C. and Wilson, G.S. (1975):

Principles of bacteriology Virology and imunity, sixth edition, Arnold, London.

Topley, W.C. and Wilson, G.S. (1984):

Principles of bacteriology, virology & immunity. 7th edition, Volume 2: systematic bacteriology. Edward Arnold, London.

Truant J.P., Brett W.A., and Thomas W. (1962):

Fluorescence microscopy of tubercle bacilli stained with auramine and rhodamine. Bull Henry ford Hosp., 10, 287-296

Turcotte, R.; Freedman, S.O. and Schon A.H. (1963):

A new haemagglutination procedure for the diagnosis of active tuberculosis. Amer. Rev. Resp. Dis. 88:725.

Turneer, M.; Van Vooren, J.P.; Lecomte, A. and Yernault (1988):

The humoral immune response after BCG vaccination in humans: consequences for the serodiagnosis of tuberculosis. Eur. Respir. J.; Jul, 1(7):589-93.

Turner J., and Warwick (1957):

Immunology of the lung, 4th ed. p. 117, Edward Arnold.

Unanue, E.R. and Cerottini, J.C. (1970):

The immunogenicity of antigen bond to the plasma membrane of macrophages. J. Exp. Med., 131:711.

Urnet, M.S. (1978):

Infection with Bacillus Calmette-Guerin activates urine thymus independent (B) lymphocytes. J. of Immunology, 120(1): 254-61.

Vestal A.L., and Kubica G.P. (1966):

Differential colonial characteristics of mycobacteria on Middle brook and cohn 7H10 agar-base medium. Am. Rev. Resp. Dis. 94:247-51.

Vestal (1975):

A.L. Procedures for the isolation and identification of mycobacteria. Atlanta, center for Disease control, p. 9.

Viljanen, M.K.; Eskola, J. and Tala, E. (1982):

Enzyme linked immunosorbent assay (ELISA) for antibodies to purified protein derivative of tuberculin (PPD): IgM, IgA and IgG anti-PPD antibodies in active pulmonary tuberculosis. Eur. J. Respir. Dis.; 63:257-262.

Voller A, Bidwell D.E., and Ann Bartlett., (1976):

Enzyme immunoassay in diagnostic medicine. Bull. WHO., 52:55:55-56.

Wagre L.G., (1977):

Synchronlized replication of M. tuberculosis infection Immunol., 17:528-30.

Wahl, S.M.; Iverson, G.M. and Oppenheim, J.J. (1974):

Induction of guinea pig B-cell lymphokine synthesis by mitogenic and non-mitogenic signals to Fc, Ig and C3 receptors. J. Exp. Med., 140:1631-45.

Waksman, B.H. and Namba, Y. (1976):

On soluble mediators of immunologic regulation Cell. Immunol. 21:161-76.

Wanner, N.L. (1974):

Membrane immunoglobulins and antigen receptors on B and T lymphocytes. Adv. Immunol., 67:216-19.

Wayen I.G.: Doubek, J.R., and Russele, R.L. (1964):

Classification and Identification of mycobacteria by tests employing tween 80 as substrate. Am. Rev. Res. Dis, 90:588.

Wayne L.G. (1976):

Dynamics of submerged growth of M. tuberculosis under aerobic and microaerophilic conditions. Am. Rev. Resp. Dis., 114:807-811.

Wayne L.G (1977):

Synchronized replication of M.tuberculosis infectious imunol., 17:528-30.

Wilson, G.S. and Milles, A.A. (1975):

Topley and Wilson's Principles of bacteriology, virology and immunology. p. 724, 6th edition. Edited by Arnold. London. The Williams and Wilkins Co. Baltimore

Wilson G., Miles A., and Parker M. (1983):

Topley and Wilson's Principles of Bacteriology, virology and Immunity, 7th ed. Vol.2, Edward Arnold. Butler and Tanner ltd frome and London. P 60-93.

Winter, W.D. and Cox, R.A. (1981):

Serodiagnosis of tuberculosis by radioimmunoassay. Am. Rev. Respir. Dis. 124:582-585.

Youman, G.P. (1979):

Tuberculosis. W.B. Saunders Company, Philadelphia-London- Toronto.

Youmans, G.P. (1975):

Relation between delayed hypersensitivity and immunity in tuberculosis. Amer. Rev. Resp. Dis.III: 109.

Zeiss, C.R.; Radin, R.C.; Williams, J.E.; Levitz, D. and Phair, J.P. (1982):

Detection of immunoglobulin G antibody to purified protein derivative in patients with tuberculosis by immunoassay and enzyme-linked immunosorbent assay J. Clin. Microbiol., 15:93-6.

Zeiss, C.R.; Kalish, S.B.; Erlich, K.S.; Levitz, D. Metzgar E.; Rabin, R.; and Phai, J.P. (1984):

IgG antibody to PPD by ELISA in the diagnosis of pulm. Tuberculosis. Am. rev.Res. Dis. 130:845-848.

Ziehl E., (1982): Difaibung des tubecle bacillus. Deustsche Med., Wochenschn. 8., 451, Cited from: