

## Image Article

# Biological Basis of Transplant Failure

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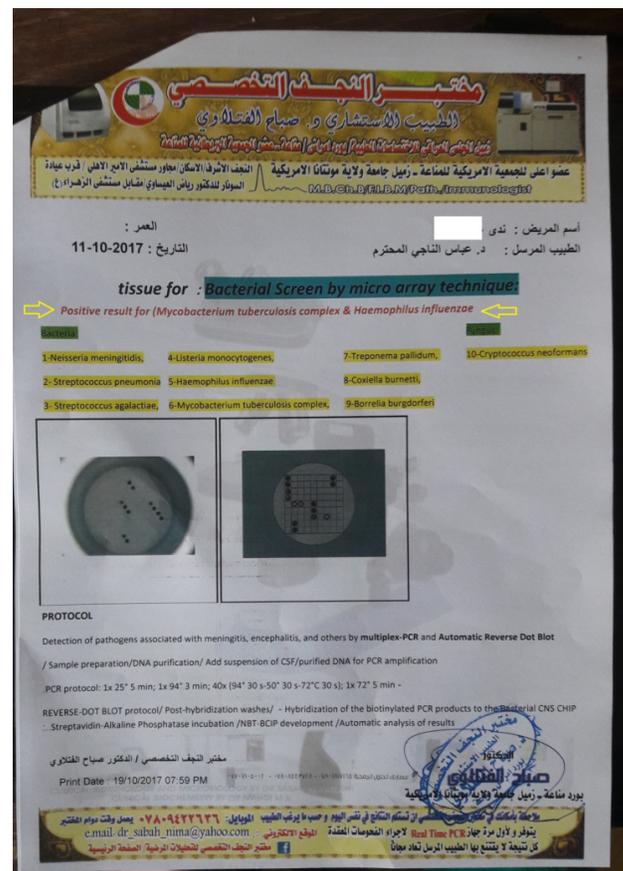
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## Description

Tissue and organ transplant is a big and wide field in medicine and surgery with so progressive prospects that some intend to transplant the head many decades after heart and many other vital organs transplantation. This art is of a solid need both of the basic sciences which is built on to make it walk on a proper platform and the mankind necessities to overcome body defects of any kind throughout its life journey. No one denies the progressive success in results which was very daring from the start. Still many failures and not optimal results to date In spite of the vast and painful efforts. To date the core in this inefficiency is the rejection from the recipient side due to tissue identity which partially do not coupe the that of donor provided all others are excluded. Still, one of the excluded factors is working but in a hiding and wicked manner. It is the infection. Now I do not want to discuss the routine and slandered acts pre-, intra- and post transplantation of any tissue or organ I know each has his/her own art and tricks. The infection I want to give attention to is the intracellular bacterial infection. A fact of a long-standing cells being inhabited by some one or more kind of fifteen intracellular bacteria like *Brucella*, *Salmonella*, *Tuberculosis* and the others. Either in one side (donor/ recipient) or the both. So under a fact of such entity do we think or expect that our transplant will be completely grown in a healthy environment!!?? This fact may be the cause for the failures or the weak results in centers whatever where after the HLA matching being accepted. we may extend that this HLA is not the real factor in rejection even!! This vision was born through the results of my work on the biological basis of the Neurosurgical pathologies where after the clinical based trials then the admit of PCR into service and lately the Micro-array screen for DNA detection of the tissue samples for the intracellular bacteria showed more than one imagine the incidence of these intracellular bacteria into the patients cells who were suffering from diseases referred to as of unknown etiologies and being treated symptomatically or with palliative medicines like corticosteroids. Before the writing of these words the lab gave me a phone call to tell me that one of my patients with very long history of sufferings of so many kinds and so many failed regimens, here Trapezius muscle open biopsy

showed two bacteria *Tuberculosis* and *H. influenza* in one sample with real time PCR for *Brucella* alone and Micro-array screen for eight bacteria ( I am very active to cover others as a screen test but this is a technical difficulty mean while), the astonishing in that the result is negative for *Brucella* while my impression on her condition was a chronic active Brucellosis and being treated for that with more than excellent results, here clinical picture that I were consulted for was an annoying scalp big suppurative boils that make here cannot put her head on pillow, the successive days showed dramatic improvements in many, many, other old complaints !!



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**Quantitative Real Time PCR**  
Procedure:  
Brucella DNA extracted from patient's sample using DNA extraction kit, an internal control is also run within each sample to check the validity of extracted DNA.  
Extracted DNA is amplified on Real Time Thermal Cycler along with WHO verified standards.  
The sensitivity of the parameter is 300 IU/ml

Principle:  
Diagnosis is based on the amplification of Specific regions of Brucella genome. Fluorescent labeled Sequence specific probes are used for the detection of the amplified product.

Specimen	tissue
Test Performed by Stratagene 3005	Result :NO CT

**Result: Brucella DNA : not detected**

Note:  
1)The results can not be compared with any other Lab. as every laboratory has its own procedure and internal quality standards.  
2)The positive result almost always indicates the presence of antigen; while the negative result not excludes the presence of antigen.  
3)The result of test just indicates the bacterial amount in the tested sample.  
4)Results from different laboratories cannot be compared unless they use the same technique and the same kits.

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للاطلاع بإمكانك في مختبر النخبة التخصصي ان تستلم النتائج في نفس اليوم و حسب ما يريها الطبيب المختص  
توطر و لأول مرة جهاز Real Time PCR لاجراء الفحوصات المتقدمة  
كل نتيجة لا يتتبع بها الطبيب المرسل تعاد مجاناً

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