

# 3<sup>rd</sup> International Conference on BIOMATERIALS, CELLULAR AND TISSUE ENGINEERING

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Rita Kappel, Mater Sci Nanotechnol 2019, Volume 3



## Rita Kappel

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## BIOGRAPHY

Rita Kappel wrote her thesis on the development of the primate cerebellum, giving her insight into neuroanatomy. Then next became a board-certified plastic and reconstructive surgeon and ultimately added a certification in preventive healthcare. All these three qualifications relate to different aspects of "Silicone gel bleed disease" and together have made it possible to do research on it. This disease affects many women around the world. Apart from the abovementioned study, she has authored or co-authored for four other scientific studies on this subject. She is the Director of the Dr. Kappel Institute in Netherlands.

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## SILICONE GEL BLEED DISEASE, ANOTHER STEP TOWARDS EXPLANATION OF THE PATHOGENESIS

When it comes to silicone breast implants, author already know that *in vitro* they bleed their content through an intact shell, thanks to the work of Barker *et al.* in 1978. The common conception was that although the bleeding occurred, regardless of the brand of the breast implant, the bleeding material was too inert chemically to cause any harm and would probably be contained within the capsule surrounding the breast implant. That is still the common professional opinion until today, emphasized by the idea that a Bleed Retardation Layer in later and future generations of silicone breast implants will stop the bleeding altogether. This is of course not what the name suggests. They also know that there are women with these products who develop a variety of chronic health issues, which should preferentially be described under the heading "Silicone gel bleed disease", as they learn more about it. Interestingly these complaints improve upon explanation surgery. Is there a link between the ever present gel bleed and this disease? With the study that will be presented, they have employed three separate methods to demonstrate unequivocally, the *in vivo* dissemination of silicone polymer molecules everywhere throughout the body. They are getting closer to the next step of the scientific explanation of how the accumulated Silicone molecules in the various organs and tissues cause the variety of health complaints, pertaining to silicone gel bleed disease.