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Press Release

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[http://till-photonics.com/
News/news.php](http://till-photonics.com/News/news.php)

TILL Photonics Welcomes Dr. Brian T. Bennett

TILL Photonics announces the addition of Dr. Brian T. Bennett as Director of Scientific Business Development for Microscopy.

Dr. Bennett's career in biology has been on the leading edge both in academia as well as industrial experience. His research and abilities have allowed him to bring together years of experience in advanced microscopy techniques.

Dr. Bennett began his career at The University of Massachusetts Medical School where he obtained his PhD, publishing several key articles on the recruitment of cancer related proteins within a human nucleus. These publications were the first to use microscopy to study the localization of specific proteins and were awarded the cover photos for the Journal of Cellular Biochemistry.

Dr. Bennett also worked in super-resolution microscopy, publishing one of the first meaningful biologically based super-resolution imaging using 4Pi Microscopy (PNAS, 2006). During this same time, Dr. Bennett gained experience with STED microscopy and presented the first STED images of histone complexes within a single human nuclei at the 2007 ASCB conference.

Dr. Bennett was also part of a biological research start up where he developed a fluorescent product line, microscopy support products, and consulted with a majority of the major pharmaceutical groups on super-resolution imaging.

After industrial success, Dr. Bennett returned to Academia as a research professor at The University of Utah. At Utah, along with his colleagues, he played a role in a new super-resolution technique, Biplane Fluorescent Photo-Activatable Localization Microscopy (Bi-plane FPALM), publishing the findings in Nature Methods in May of 2008. This work was included in "method of the year, Nature 2009" as part of a commentary on the value of improved



resolutions and its eventual impact on science. Further, in May 2009 Bennett authored a review for the journal *Methods*, regarding solutions for imaging in super resolution as well as conventional microscopy techniques, including detailed information of image processing and co-localization analysis.

Ultimately his research at the University of Utah led him to the iMIC Microscope platform designed by TILL Photonics. The iMIC is a tool that enabled Brian to solve several key issues surrounding super-resolution as well as perform general microscopy.

Dr. Bennett's motivation in using the iMIC was to combine performance and price together in an easy to use solution.

Finally, Dr. Bennett notes that what intrigued him most about the iMIC is "not simply the super-resolution adaptation, but the unique ruggedness and flexibility of the instrument as a work horse for any lab that has the need to image in WideField, Structured Illumination, Confocal, TIRF, FLIM, FRAP or any other iteration one could dream up using this well thought out instrumentation."

"Dr. Bennett's work in microscopy is well known with landmark papers in the fields of conventional and super-resolution imaging as well as cancer biology", commented Mark Tolbert, President & CEO of TILL-USA. "Dr. Bennett's skill-set particularly suits our scientific needs and his background matches nicely with our strategic direction."

We are pleased to bring this level of peer review experience to our team and feel it is unique in the industry. We know that Dr. Bennett's vast experience in microscopy will help us provide unparalleled advantages to those researchers who are already using iMIC Microscopy systems, or for those who, like Dr. Bennett, are discovering the unlimited advantages for the first time. It is the goal of TILL Photonics to engage the biological research community at the highest scientific level and having Dr. Bennett as part of the TILL team should do no less.

For more information on the publications, please visit:

Xrcc3 is recruited to DNA double strand breaks early and independent of Rad51

<http://www.ncbi.nlm.nih.gov/pubmed/15372620>

Cellular localization of human Rad51C and regulation of ubiquitin-mediated proteolysis of Rad51

<http://www.ncbi.nlm.nih.gov/pubmed/16215984>

The human Rad51 K133A mutant is functional for DNA double-strand break repair in human cells

<http://www.ncbi.nlm.nih.gov/pubmed/17302439>

H2AX chromatin structures and their response to DNA damage revealed by 4Pi microscopy

<http://www.ncbi.nlm.nih.gov/pubmed/17110439>

Three-dimensional sub-100 nm resolution fluorescence microscopy of thick samples

<http://www.ncbi.nlm.nih.gov/pubmed/18469823>

Immunofluorescence imaging of DNA damage response proteins: optimizing

protocols for super-resolution microscopy

<http://www.ncbi.nlm.nih.gov/pubmed/19245833>

Commentaries:

Biophotonics - Bennett, B.T., Bewersdorf, J., & Knight, K.L., review of "H2AX Chromatin Structures Revealed by 4Pi Microscopy and Their Response to DNA Damage" Originally published in PNAS, 2006

TILL was founded in 1993 as systems provider for fluorescence microscopy. From its very beginning TILL had placed its focus on the development of innovative, enabling technologies for the study of live cells. Setting out with a novel light source for ratio imaging and the first real-time imaging system on the market, TILL developed a novel, award-winning microscope platform concept, which allows integrating an unprecedented number of functionalities into a single instrument. Based on this technology TILL has subsequently become a provider for complete microscope systems, and the new TILL intends to step into these footsteps and plans to extend the platform concept in order to grow into a wide range of markets, both in basic research, screening and medical diagnostics.