

NOTEWORTHY, SOFTWARE

MORE TENSIONS AT PUBPEER

1.08.2024

[Wafik S El Deiry](#) has now uploaded [more than 40 times](#) a rebuttal letter to PubPeer complaining about being bullied by “academic terrorism”. [Thomas C Südhoff](#) is even more aggressive with new [ad hominem attacks](#) as I just learned

Profiles of the main accusers of the Südhof lab

The majority of accusation against our lab on PubPeer are made by four commentators, Dr. Elisabeth Bik, Dr. Maarten van Kampen (self-identified as *Orchestus quercus* (<https://pubpeer.com/publications/F7C42C356B2E7049FDB68A434EF4F8>)), Dr. Leonid Schneider (self-identified as *Actinopolyspora biskrensis* (<https://forbetterscience.com/2019/07/30/help-with-another-not-on-pubpeer-yet/>)), and Dr. Kaveh Bazargan (self-identified as *Illex illecebrosus* (<https://pubpeer.com/publications/5813077CE8B5C29E479FD50C259F77>)). In addition, multiple anonymous commentators report new allegations or support the accusations by Dr. Bik, van Kampen, Schneider, and Bazargan, but their possibly overlapping identities and conflicts of interest cannot be assessed.

Dr. Elisabeth Bik comments on PubPeer without a pseudonym. She specializes in identifying image duplications likely using AI-driven software like ProofFig. Dr. Bik's comments have identified numerous copy-paste mistakes in various papers but do not discuss the actual science, nor do they consider the scientific implications of the alleged image manipulations (i.e., whether the alleged manipulation is relevant for a paper's conclusion). Dr. Bik is a professional science consultant who provides remunerated services to universities, journals and other customers in addition to running a website supported by donations. She spent 15 years as a research associate at Stanford and several years in industry and science publishing before becoming a professional in assessing science integrity. Nearly all of Dr. Bik's PubPeer posts on my lab are mirrored by tweets about me that imply misconduct by my lab without explaining the actual content of the accusations or their relevance.

Actinopolyspora biskrensis usually provides secondary reinforcement to the accusations by Dr. E. Bik that generally offer little new information but amplify prior allegations.

Dr. Maarten van Kampen (pseudonym *Orchestus quercus*) frequently follows up on Dr. Bik's comments and also contributes to Dr. Leonid Schneider's website “ForBetterScience” accusing me of fraud and racism.

Dr. Kaveh Bazargan is a physicist with a PhD in display holography who founded the company “River Valley Technologies” (<https://rivervalley.io/>) that offers paid publication services. Dr. Bazargan's frequent comments on PubPeer on our work are nearly always secondary to Dr. Bik's accusation, reinforcing her allegations with ‘animations’ that generally provide limited new information. Dr. Bazargan is also very active on ‘X’ (formerly Twitter).

<https://med.stanford.edu/sudhoflab/integrity—pubpeer.html> 1/8/2024

while his explanation of the numerous duplications is clearly wrong

... the tiny allegedly cloned areas of similar background signals partly overlap and are randomly distributed in the image. Besides the fact that it would make no sense to duplicate such small areas of background – a fraudster could just run a gel with empty lanes – and that such duplications do not improve the data, overlapping duplications like this are nearly impossible to manufacture.

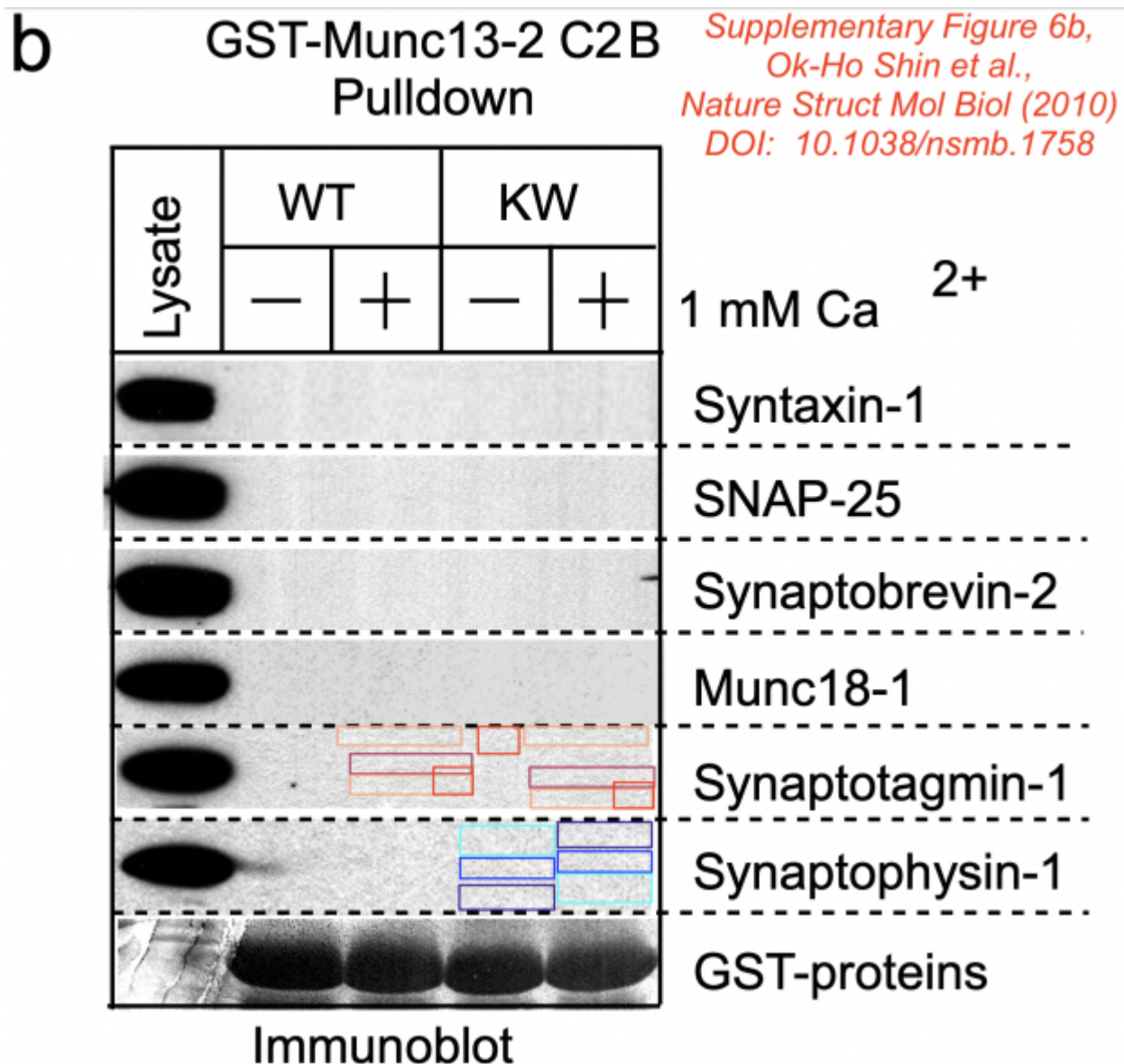
Of course also small areas can be copied with the clone tool. If the placement is random or intentional can only be judged from the original image while an educated guess is certain-

ly allowed. Running Photoshop is at least far more time and cost effective than running a gel with an empty lane.

A general problem here is that digital reproductions of images – both of immunoblots and of tissue sections or cells – can create artifactual microduplications especially if the image resolution is changed during reproductions.

This is outright wrong. Artifacts by capturing or stitching software is possible in theory while in practice we have found it [only a few times](#).

So here comes my assessment of the now famous [Synaptotagmin-1/Synaptophysin-1](#) immunoblot



The assessment is based on the directly extracted (inline) image from the PDF.



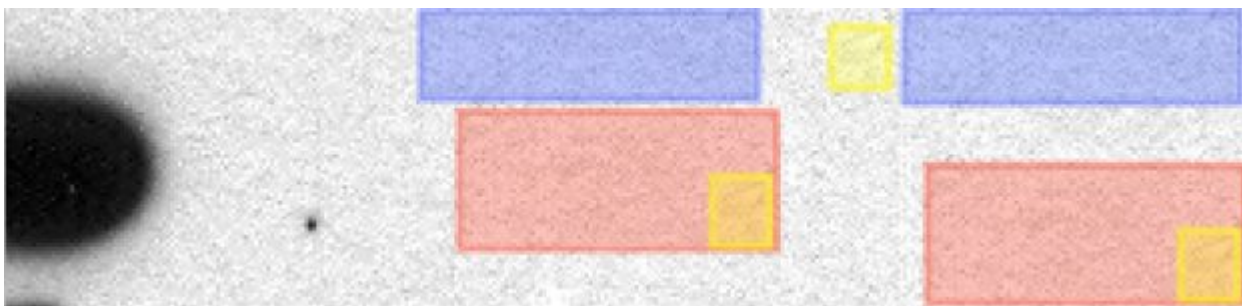
013.png 363 x 78 Pixel @ 72ppi

Identical patches were confirmed using 3 software packages [Forensically](#), [ImageDup](#) and [ICMF](#).



ICMF <https://ipolcore.ipol.im/demo/clientApp/demo.html?id=213&key=6317E0D9603764AC6FB3A9FAF3090847>

Also the manual annotation below shows 100% identical areas where the KW+ lane pixel has been copied to KW- (the other direction is less likely). Not sure what had been there, dust, dirt, text marker or another dot?



manual pixel-wise annotation, [click for full view](#)

Südhof comments on this image [on his website](#)

Mistake identified: Dr. E. Bik claims that the Suppl. Figure 6b immunoblot stripes (reproduced digitally at low resolution by the journal from a non-digital original blot) contains tiny areas of microduplications in the background pattern (not the actual signal). These areas are tiny, within a blot, randomly distributed, and only digitally identifiable. She implies that these blots are suspicious and could be manipulated.

Resolution: This is an unusually bizarre accusation since it refers to digital low resolution images in which tiny image areas would have been scrambled by a person if Dr. Bik's accusation were correct. Even though she maintains publicly that she won't speculate about motivations, her accusations imply a motivation that would be difficult to understand since any manipulation here would produce a partly altered background. The most likely explanation here is, like for many of the 'mistakes' identified by Dr. Bik's A.I.-powered software, that these random microduplications are simply a reproduction artifact of a digitized image.

Classification: unfounded

Great story: The journal Nature Structural & Molecular Biology received the original blots and digitized them? So this is their fault? These are neither tiny spots, nor are they randomly distributed and of course, they can be seen by naked eye.

German newspapers covered the Südhof stor already ([SPIEGEL](#), [FAZ](#) but also [Science Magazine](#)). Ulrich Dirnagel/[Tagesspiegel](#) believes that any intentional manipulation or deception cannot be recognized. I am not sure when looking at the images above.