+LaChance 2020 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7802935/pdf/pcbi.1008443.pdf>

Pratical FRM, focuses on low resolution, talks about real life metrics and not scores

+ Ounkomol 2018

3D TL images and it doesn’t work well for 2D and then combine z-slices, also a very small dataset and doesn’t generalize for other phenotypes

+ Christiansen 2018 [http s://www.sciencedirect.com/science/article/pii/S0092867418303647](https://www.sciencedirect.com/science/article/pii/S0092867418303647)

Also TL z-stacks, can predict live of dead, use of different scales (tower approach)

Tihanyi 2020 <https://www.researchgate.net/publication/350861457_Recent_advances_in_CHO_cell_line_development_for_recombinant_protein_production>

Review of all CLD processes in last years, but bot much about fluorescence in silico

+Ugawa 2021 <https://elifesciences.org/articles/67660>

Single-pixel detector (<https://www.science.org/doi/10.1126/science.aan0096> explained here) during the cell sorting (classifying wave lengths)

+ Shiyui Cheng 2021 <https://www.science.org/doi/10.1126/sciadv.abe0431>

Most advanced paper, small dataset, Uses dense blocks

+Richard Kasprowicz 2017 <https://doi.org/10.1016/j.biocel.2017.01.004>

Rely on the DIC for the morphological analysis

Can be used for image denoising

<https://openaccess.thecvf.com/content/ICCV2021W/NeurArch/papers/Jia_DDUNet_Dense_Dense_U-Net_With_Applications_in_Image_Denoising_ICCVW_2021_paper.pdf>

Predicting uncertantity maps

<https://opg.optica.org/optica/fulltext.cfm?uri=optica-6-5-618&id=412113#>

The input to the neural network consists of five low-resolution intensity images, including two brightfield and three darkfield images.

Ohtake 2013 <https://pubmed.ncbi.nlm.nih.gov/24261977/>

Recombinant therapeutic protein vaccines

Ahmad 1990 <https://pubmed.ncbi.nlm.nih.gov/2194500/>

Recombinant targeted proteins for biotherapy

Sandhu 1992

Protein engineering of antibodies <https://pubmed.ncbi.nlm.nih.gov/1423650/>

Funaro 1996

Monoclonal antibodies in clinical applications <https://pubmed.ncbi.nlm.nih.gov/9604775/>

Larrick 1991

Recombinant antibodies

+ Jefferis 2021 <https://pubmed.ncbi.nlm.nih.gov/29071407/>

Recombinant Proteins and Monoclonal Antibodies

+ Barbeau, J., (2018) <https://blog.crownbio.com/overview-recombinant-proteins>

Introduction to Recombinant Proteins - Crown Bioscience.

+ Castan 2018 <https://sci-hub.mksa.top/10.1016/B978-0-08-100623-8.00007-4>

Book about CLD

+ Lalonde 2017 <https://www.sciencedirect.com/science/article/pii/S0168165617301918?via%3Dihub>

(so so reference)

+ Beckman <https://www.beckman.de/resources/product-applications/lead-optimization/cell-line-development>

+ Hong 2018 <https://www.sciencedirect.com/science/article/abs/pii/S2211339818300285>

+ Shin 2020 <https://sci-hub.mksa.top/10.1007/s12257-020-0093-7>

CHO Cell Line Development and Engineering via Site-specific Integration: Challenges and Opportunities

+ All cells from the same one [25] from here <https://sci-hub.mksa.top/10.1016/B978-0-08-100623-8.00007-4> Castan

ICH\_Guideline\_Q5D, Derivation and Characterisation of Cell Substrates Used for Production of Biotechnological/Biological Products. FDA Federal Register. I. C. O. H. O. T. R. F. R. O. P. F. H. USE. 63 (1997) 50244–50249.

+ Brown 2000 <https://academic.oup.com/clinchem/article/46/8/1221/5641363>

Flow Cytometry: Principles and Clinical Applications in Hematology

+ Selinummi 2009, <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0007497>

Bright Field Microscopy as an Alternative to Whole Cell Fluorescence in Automated Analysis of Macrophage Images

+ Perfetto 2004 <https://www.nature.com/articles/nri1416>

Seventeen-colour flow cytometry: unravelling the immune system

+ Burry 2011 <https://journals.sagepub.com/doi/10.1369/jhc.2010.956920>

Controls for Immunocytochemistry: An Update

+ Weigert et al., 1970 <https://www.nature.com/articles/2281045a0>

Variability in the Lambda Light Chain Sequences of Mouse Antibody

+ Fried et al., 1982 <https://onlinelibrary.wiley.com/doi/10.1002/cyto.990030110>

Effects of hoechst 33342 on survival and growth of two tumor cell lines and on hematopoietically normal bone marrow cells

+ Patil et al <https://www.sciencedirect.com/science/article/pii/S2405580817301656?via%3Dihub>

Effects of hoechst 33342 on survival and growth of two tumor cell lines and on hematopoietically normal bone marrow cells

+ Progatzky 2013 <https://www.sciencedirect.com/science/article/pii/S2405580817301656?via%3Dihub>

From seeing to believing: labelling strategies for in vivo cell-tracking experiments

+ DEEP LEARNING BOOK <https://www.deeplearningbook.org/contents/convnets.html>

+ Ronneberger O, Fischer P, Brox T (2015). "U-Net: Convolutional Networks for Biomedical Image Segmentation <https://arxiv.org/pdf/1505.04597.pdf>

+ Matthew D. Zeiler 2012 ADADELTA: AN ADAPTIVE LEARNING RATE METHOD <https://arxiv.org/pdf/1212.5701.pdf>

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+ Wang 2017 Augmentations <https://arxiv.org/pdf/1712.04621.pdf>

+ Yang 2022 <https://arxiv.org/pdf/2204.08610.pdf>

+ Kumar 2017 On weight initialization in deep neural networks <https://arxiv.org/pdf/1704.08863.pdf>

Cool example of why wi does bad things <https://www.deeplearning.ai/ai-notes/initialization/>

+ He 2015 <https://arxiv.org/pdf/1502.01852.pdf>

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+ Ying 2019 <https://iopscience.iop.org/article/10.1088/1742-6596/1168/2/022022>

+ Hanson 1988 <https://proceedings.neurips.cc/paper/1988/file/1c9ac0159c94d8d0cbedc973445af2da-Paper.pdf>