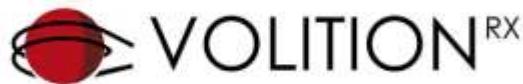




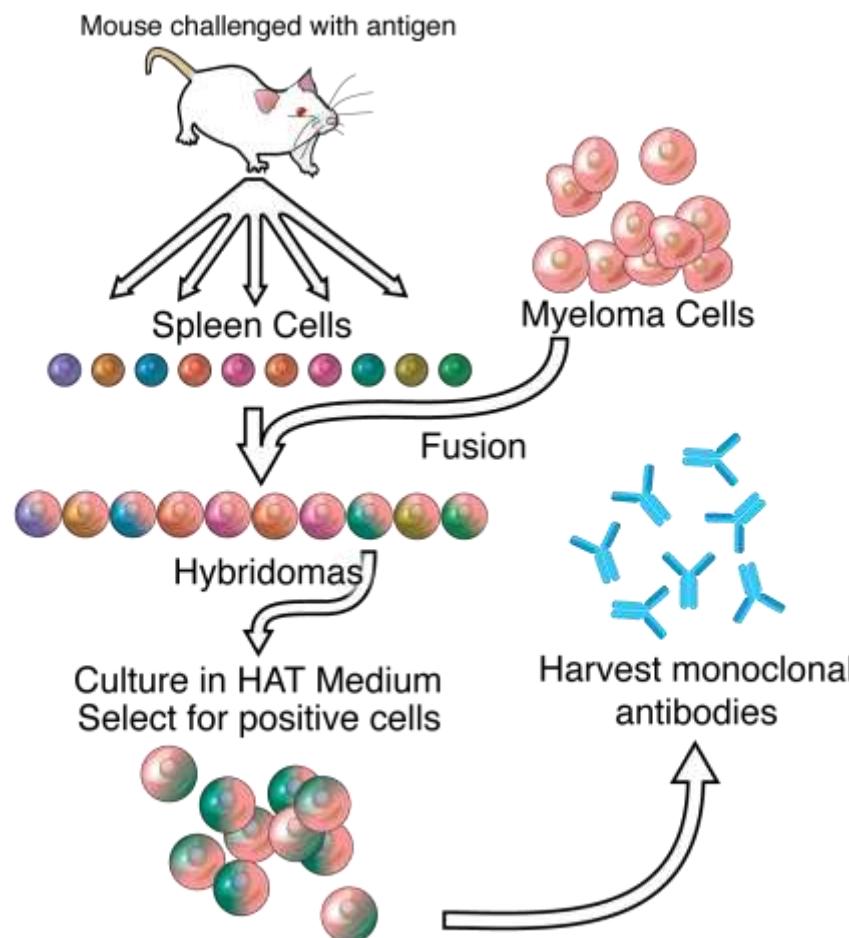
Revolutionize cancer diagnostic :
Generation of the first anti-histone PTM



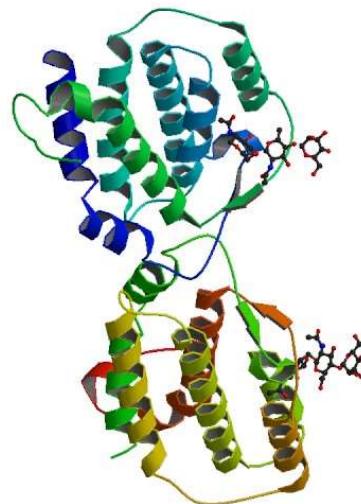
Why has SynAbs been founded?



Why has SynAbs been founded?



SynAbs becomes rat mAb expert



SP|Q8R1R4|IL34_MOUSE MPWGLAWLYCLGILLDVALGNENLEIWTLTQDKCSDLTGYLRGKLQYKNRLQYMKHYFPI 60
SP|Q4KM46|IL34_RAT MPWGLAWLYCLGILLDVALGNENLEIWTLAQDKCSDLTGYLRGKLQYKNRLQYMKHYFPI 60

SP|Q8R1R4|IL34_MOUSE NYRIAVPYEGVLRVANITRL**Q**KAHVSERELRYLWVLVSLNATESV**M**DVLLEGHPSWKYLQ 120
SP|Q4KM46|IL34_RAT NYRIAVPYEGVLRVANITRL-KAHVSERELRYLWVLVSLNATESVLDVLLEGHPSWKYLQ 119

SP|Q8R1R4|IL34_MOUSE EVQLLENVQRSLMDVEIGPHVEAVSLLSTPGLSLKLVRPKALLDNCFRVMELLYCSCC 180
SP|Q4KM46|IL34_RAT EVQLLENVQRSLMDVEIGPHVEAVSLLSTPGLSLKLVRPKALLDNCFRVMELLYCSCC 179

SP|Q8R1R4|IL34_MOUSE KQSPILKWQDCELPRLHPHSP**G**SLMQCTATNVYPLSRQTPTSLPGSPSSSHG**SLP** 235
SP|Q4KM46|IL34_RAT KQSPILKWQDCELPRLHPHSPESLMQCAATNVYPLPRQPPTSLPRSPSSNHGPLP 234



SynAbs becomes rat mAb expert



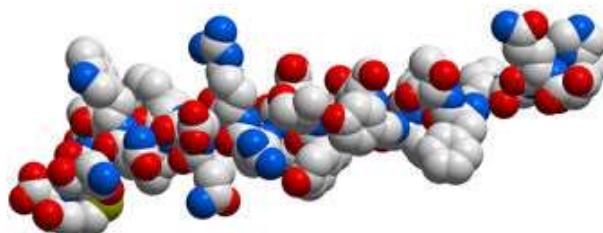


SynAbs becomes rat mAb expert

- ✓ Excellent for **small molecules** (antibiotics, toxins, steroids)
- ✓ Host variation offers **different antibody responses**
- ✓ Access to the **lymph nodes**
- ✓ No special growth media required
- ✓ Pair with existing mouse antibodies in **sandwich assays**
- ✓ **Multiple labelling** possibility
- ✓ Stable and productive homohybridoma thanks to our proprietary rat IR983 fusion cell line



SynAbs : coping a new challenge

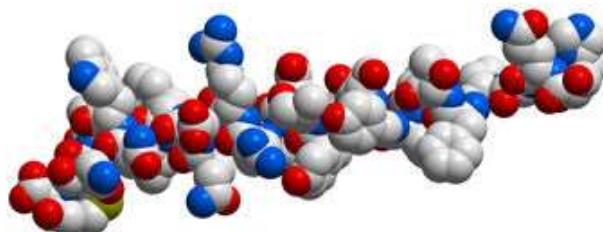


SP|P01275|GLUC_HUMAN MKSIYFVAGLFVMLVQGSWQRSLQDTEEKRSFSASQADPLSDPDQMNEKRHSQGTFTS 60
SP|P55095|GLUC_MOUSE MKTIYFVAGLLIMLVQGSWQHALQDTEENPRSFPAQSQTEAHEDPDEMNEKRHSQGTFTS 60
SP|P06883|GLUC_RAT MKTVYIVAGLFVMLVQGSWQHAPQDTEENARSFPASQTEPLEDPDQINEDKRHSQGTFTS 60

SP|P01275|GLUC_HUMAN DYSKYLDSRRAQDFVQWLMNTKRNRRNNIAKRHDEFERHAEGTFTSDVSSYLEGQAAKEFI 120
SP|P55095|GLUC_MOUSE DYSKYLDSRRAQDFVQWLMNTKRNRRNNIAKRHDEFERHAEGTFTSDVSSYLEGQAAKEFI 120
SP|P06883|GLUC_RAT DYSKYLDSRRAQDFVQWLMNTKRNRRNNIAKRHDEFERHAEGTFTSDVSSYLEGQAAKEFI 120

SP|P01275|GLUC_HUMAN AWLVKGRGRDFPEEVIAVEELGRRHADGSFSDEMNTILDNLAAARDFINWLIQTKITDRK 180
SP|P55095|GLUC_MOUSE AWLVKGRGRDFPEEVIAEELGRRHADGSFSDEMSTILDNLATRDFINWLIQTKITDKK 180
SP|P06883|GLUC_RAT AWLVKGRGRDFPEEVIAEELGRRHADGSFSDEMNTILDNLATRDFINWLIQTKITDKK 180

SynAbs becomes singular mAbs expert

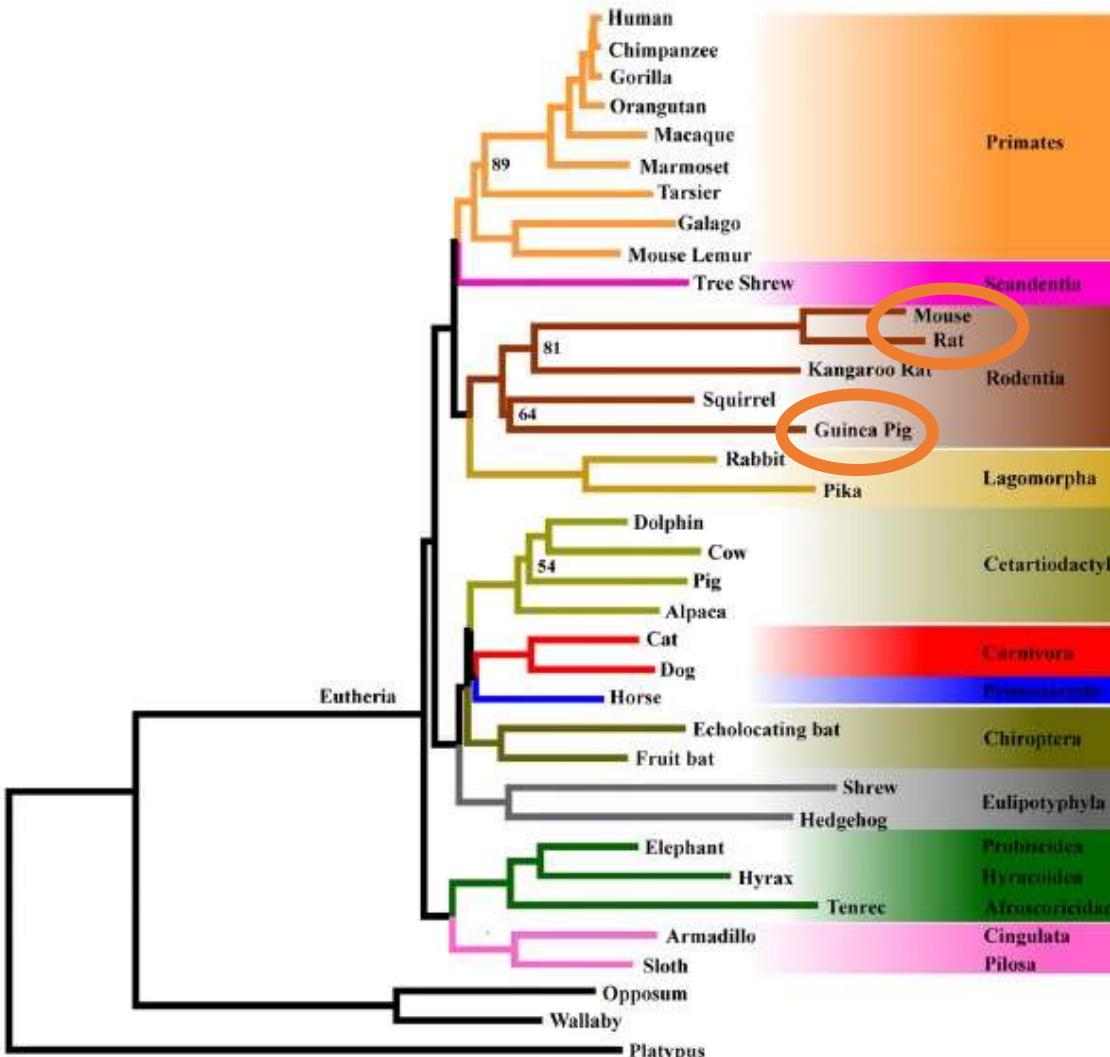


SP|P01275|GLUC_HUMAN MKSIYFVAGLF**MLV**QGSWQRSLQDTEEK**SRS**FSASQ**ADPLS**DPDQMNE**KRHSQGTFTS** 60
SP|P05110|GLUC_CAVPO MKSVYFVAGLF**IMLAQ**GWSWQRSLQDTEEK**PRSVS**ASQT**MLDDP**DQMNE**KRHSQGTFTS** 60

SP|P01275|GLUC_HUMAN DYSKYLDSRRAQ**DFVQ**WLMNTKRNRNNIAKRHDEFERHAEGTFTSDVSSYLEGQAKEFI 120
SP|P05110|GLUC_CAVPO DYSKYLDSRRAQ**QFLK**WLLNVKRNRNNIAKRHDEFERHAEGTFTSDVSSYLEGQAKEFI 120

SP|P01275|GLUC_HUMAN AWLVKGRGRDFPEEV**AI**VEELGRRHADGSFDEM**TILDNL**A**ARD**FINWL**IQT**KITDRK 180
SP|P05110|GLUC_CAVPO AWLVKGRGRDFPEEV**AI**VEELGRRHADGSFDEM**TILDNL**ATRDFINWL**IQT**KITDRK 180

SynAbs becomes singular mAbs expert





SynAbs : Singular Antibodies



- ✓ A large catalog, distributed by worldwide leaders
- ✓ Tailor-made services, from antigen synthesis to mAbs generation!
- ✓ Multi-species immunisation for a competitive price
- ✓ R&D Partnership, added value for codevelopment program



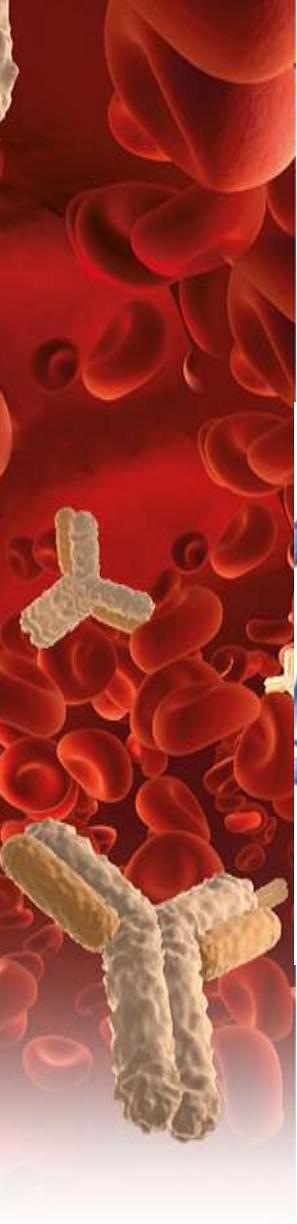
SynAbs case study

Revolutionize cancer diagnostic :
Generation of the first anti-histone PTM

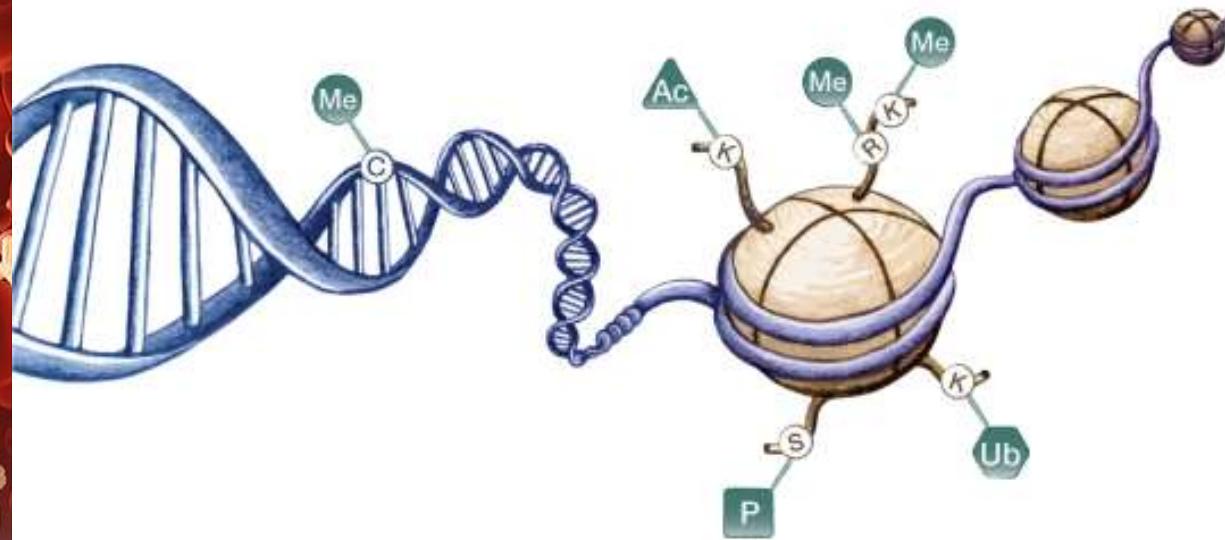


www.synabs.be

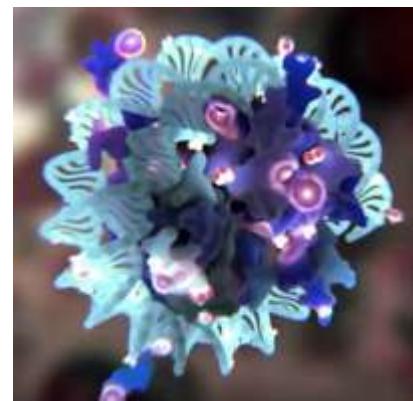




Why has VolitionRx been founded?



Nucleosomics® technology : a new army of biomarkers



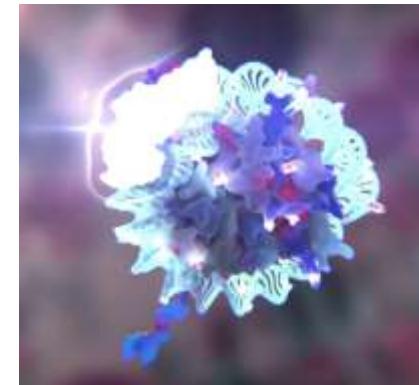
*Amino-acid changes
to the histone molecules*



*Chemical modifications
to the histone molecules*



Chemical modifications to the DNA



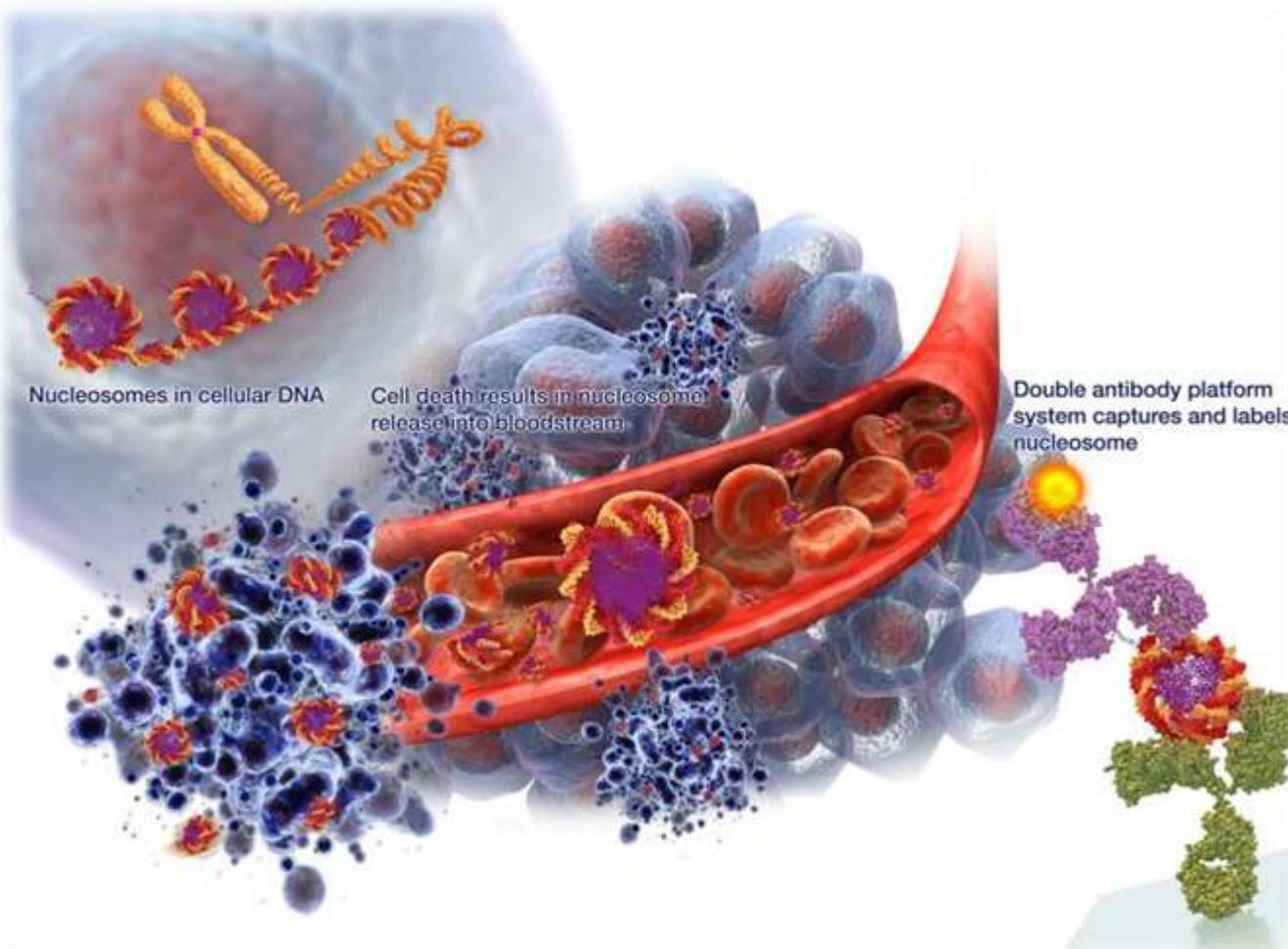
Complex with other chromosome proteins

VolitionRx : already successful

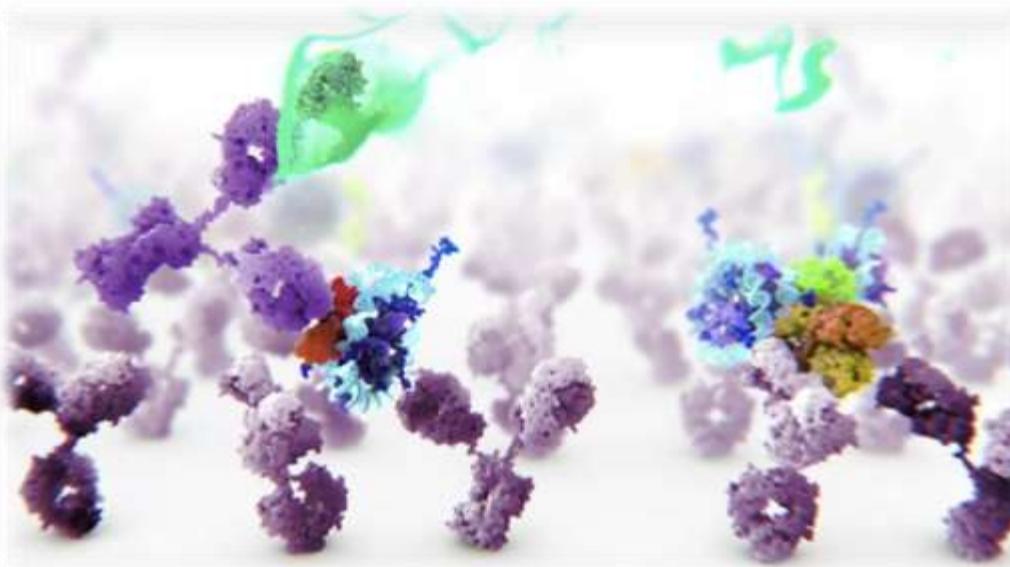


Cancer type	Detection	Specificity
Colorectal cancer & pre-cancerous colorectal adenomas	81%	78%
Pancreatic cancer	95%	84%
Lung cancer	91%	93%
Idiopathic Pulmonary Fibrosis	86%	80%

Development of NuQ® assays



Development of NuQ® assays



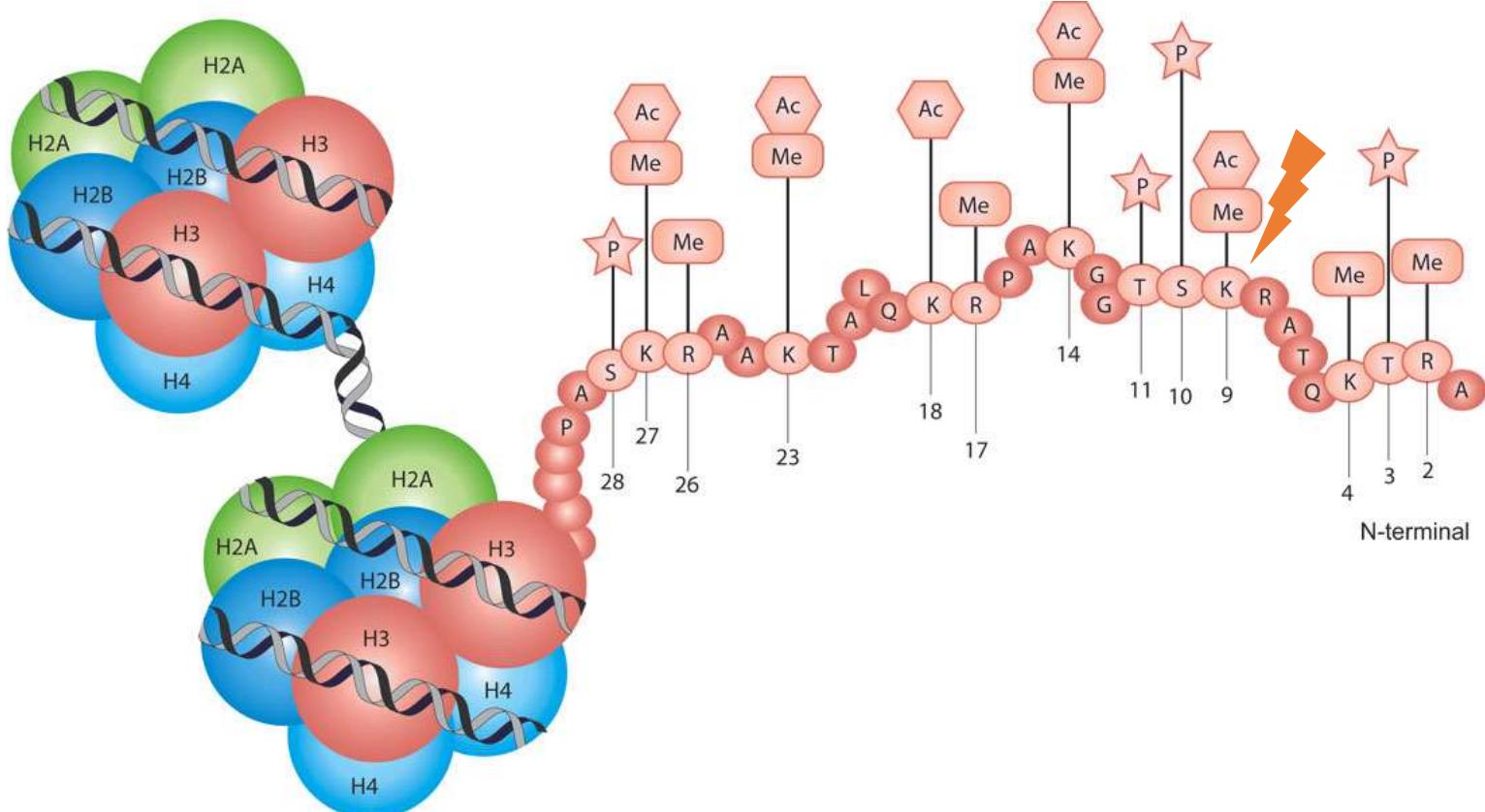
HRP reporter

Profiling Antibody

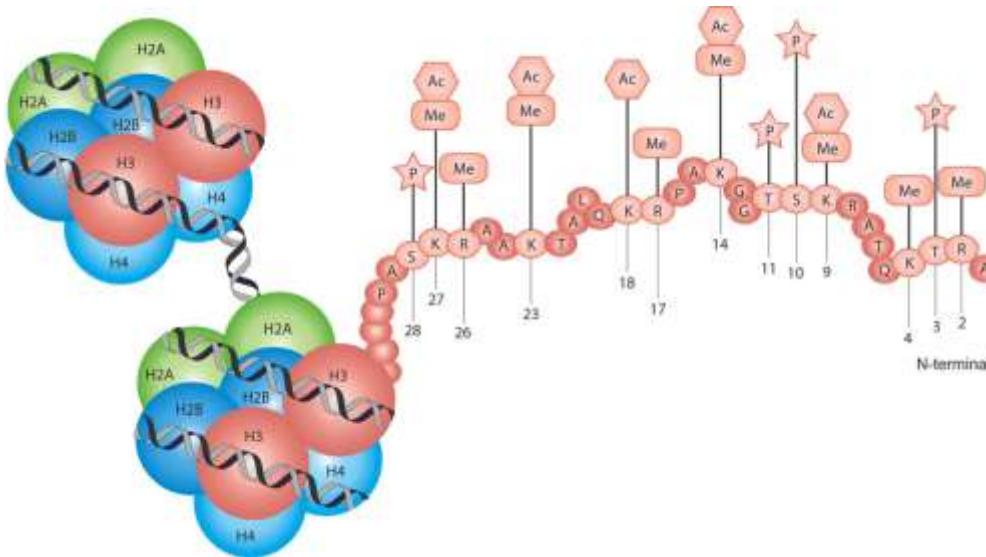
Nucleosome

Capture Antibody

Development of NuQ® assays



Development of NuQ® assays



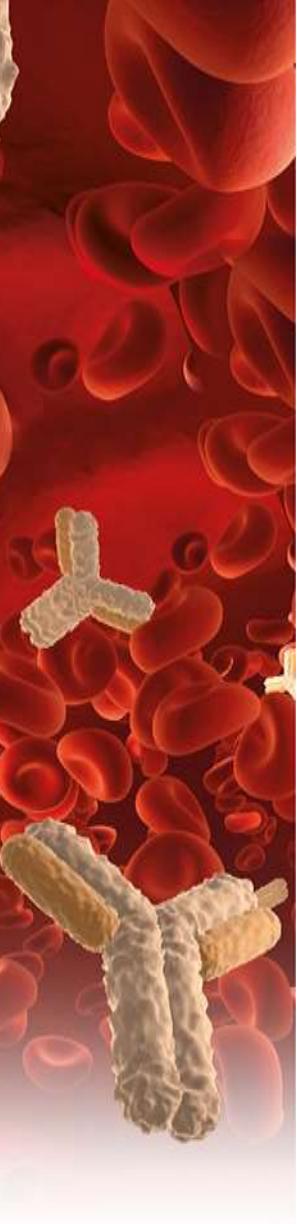
H3_HUMAN MARTKQTARKSTGGKAPRKQLATKAARKSAPATGGVKKPHRYRP GTVALREIRRYQKSTE 60
H3_MOUSE MARTKQTARKSTGGKAPRKQLATKAARKSAPATGGVKKPHRYRP GTVALREIRRYQKSTE 60

H3_HUMAN LLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCAIHAKRTI 120
H3_MOUSE LLIRKLPFQRLVREIAQDFKTDLRFQSSAVMALQEASEAYLVGLFEDTNLCAIHAKRTI 120

H3_HUMAN MPKDIQLARRIRGERA 136
H3_MOUSE MPKDIQLARRIRGERA 136

Immunization with 16 aa peptides





Success is on the cards!

- A highly specific mAb to PTM Histone
- A unique mAb on the market
- A company which can enjoy renewed success

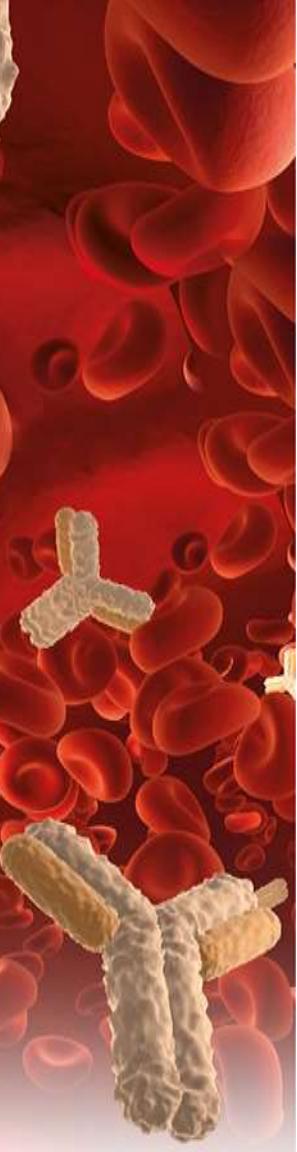
« We chose to launch one ‘hard’ program with SynAbs in order to develop an anti-PTM antibody. Indeed, there is no existing available monoclonal antibody for that given modification as of today.

We are delighted with the collaboration with Synabs!

We got a purified antibody with a high specificity to the very methyl group !

They know what they are talking about and have considerable experience with antibody production. They are also very flexible and the communication flow is efficient as well. As this program is a success, we will initiate new ones shortly. »

Gaetan Michel, VolitionRx, CEO



Why SynAbs?

- Recognized expertise : H. Bazin work
- Optimized and efficient protocols for immunizing rats, fusions, screening hybridomas, and delivering hybridoma (cell lines)
- Customizable offer at any step
- Full service integration : whole set of services for initial antigen preparation, subsequent antibody production and purification
- Alternatives to mouse model at affordable costs to increase the success of your projects



They believed us from the very beginning

