

The History of Yeast and Humans

- Goes back as far as civilization
- The basis of standard bread and many fermented drinks
- Beer is still produced with some very historic strains
- Recently beer and mead was brewed from a 5000 year-old Egyptian strain



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The History of Yeast Supplementation in Agriculture

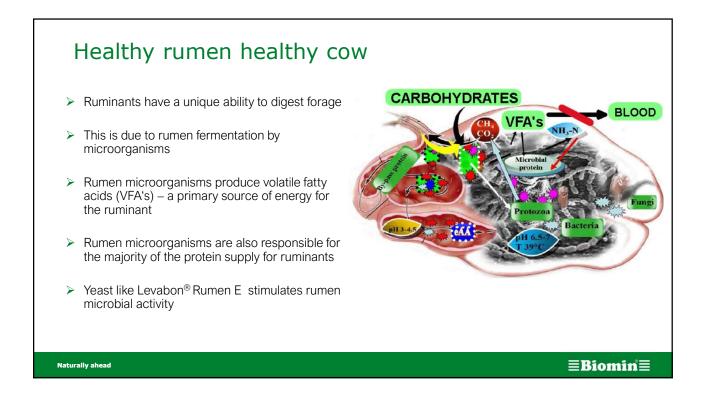
- > A more recent thing (decades rather than millenia)
- Now a common feature of modern dairy farming (used on majority of high-producing dairy farms)

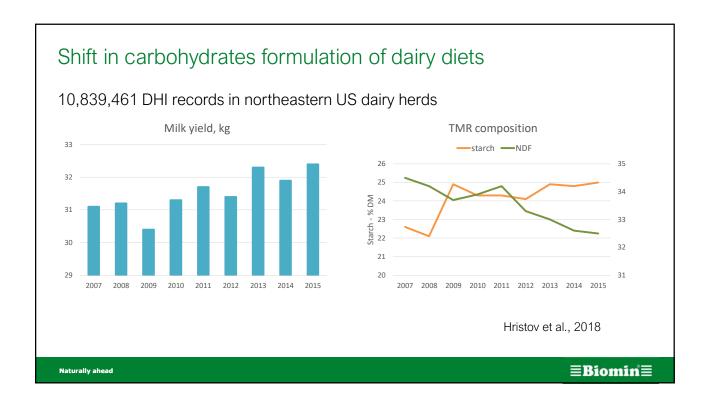


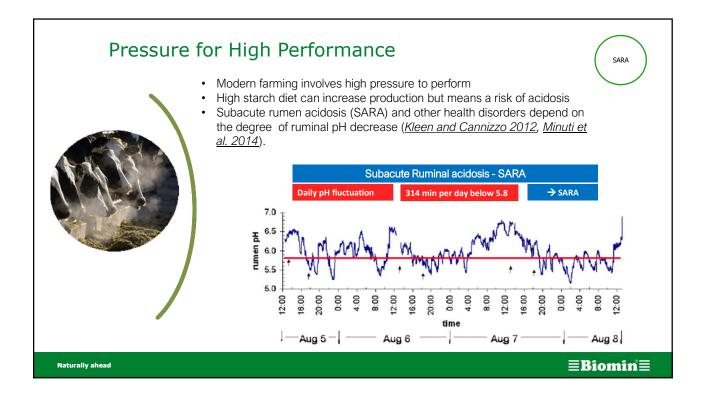
Benefits can be seen in rumen fermentation and production

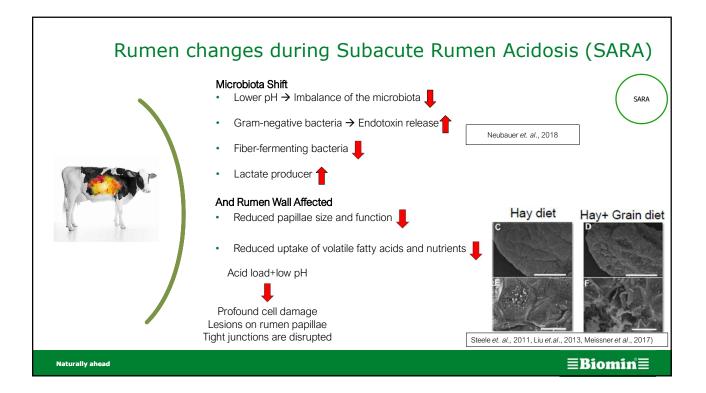


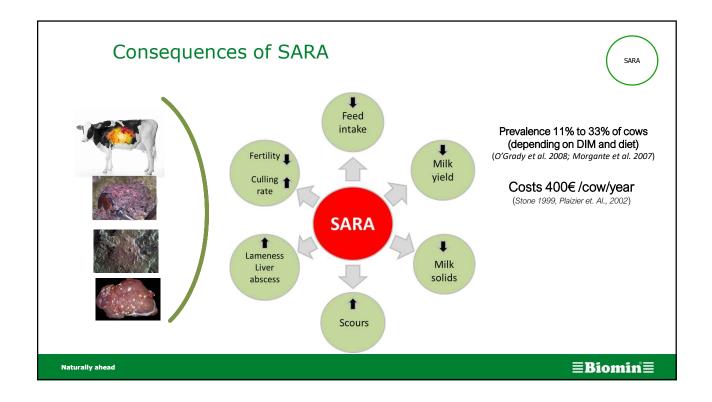
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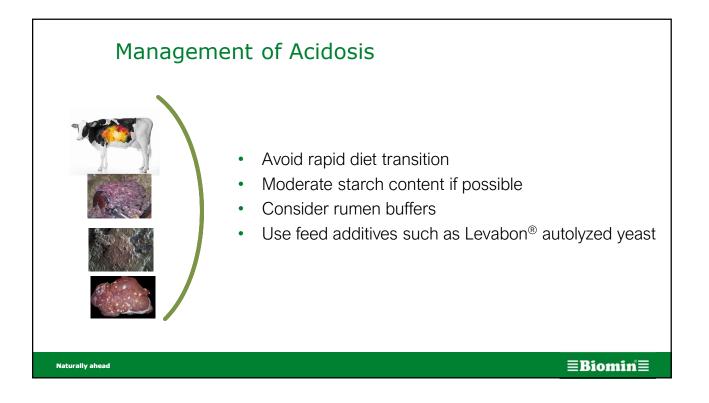


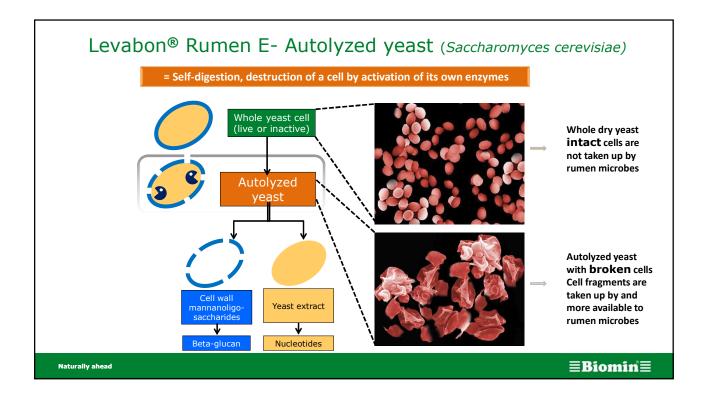


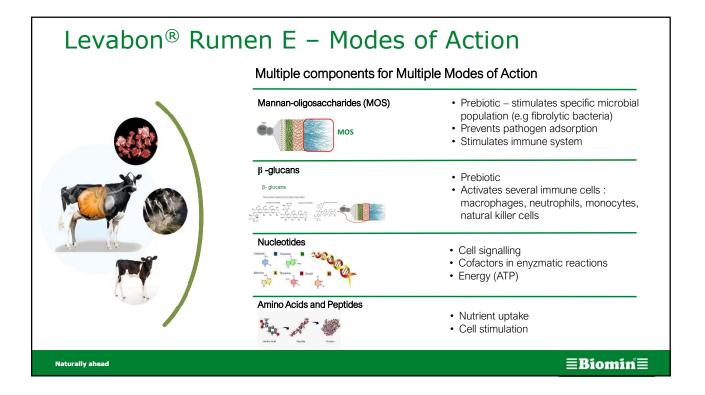


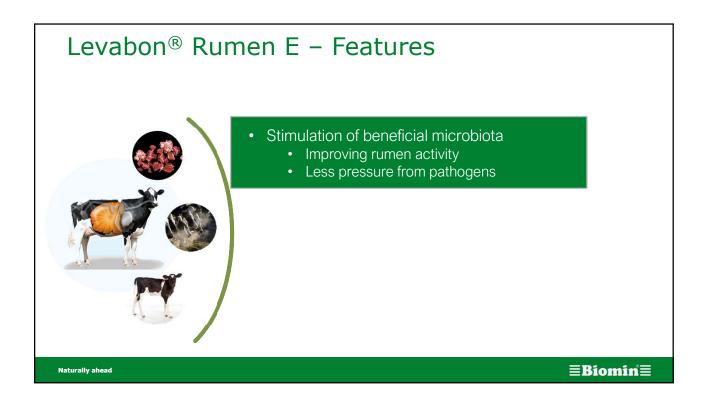


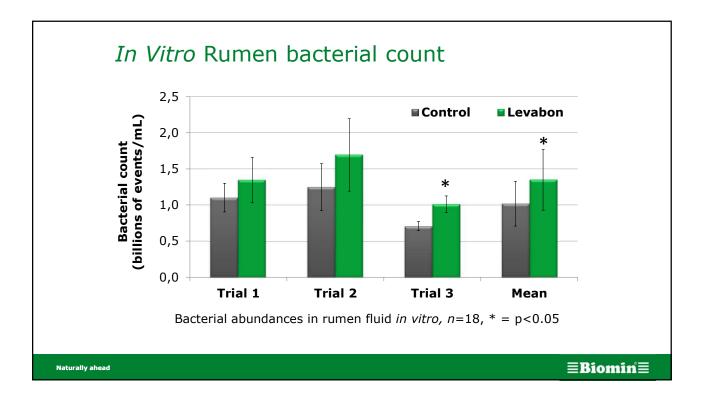


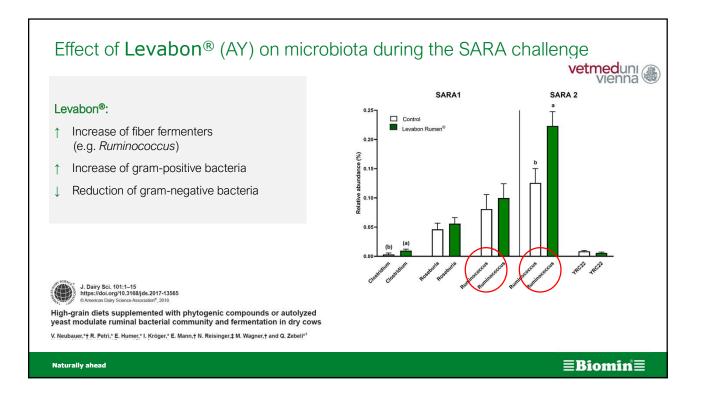


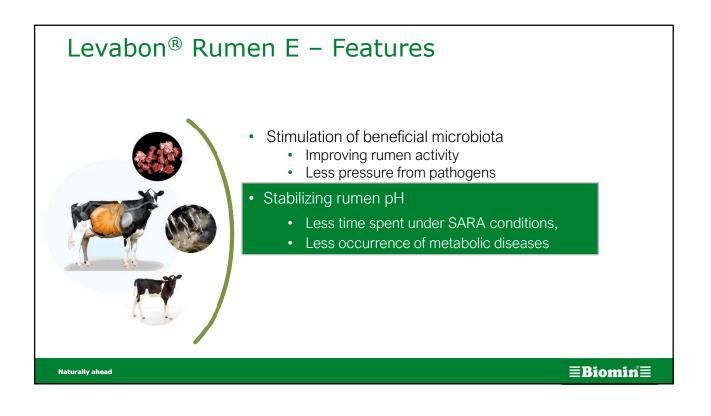


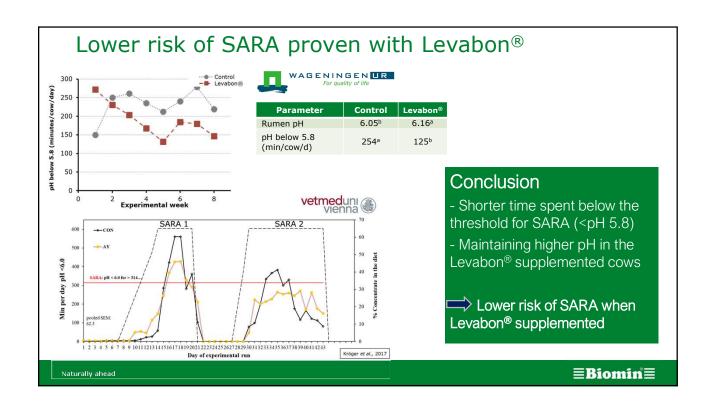


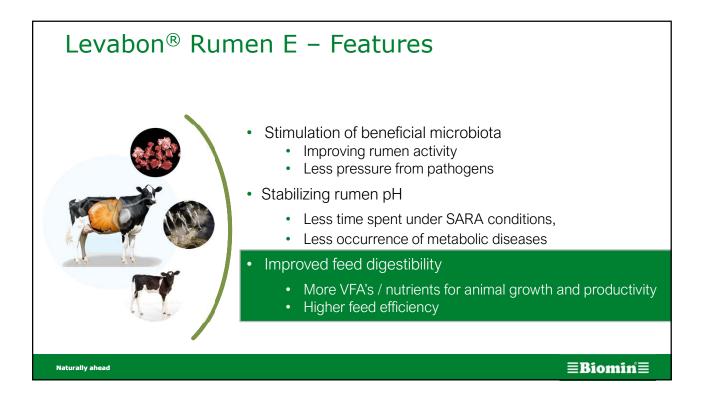


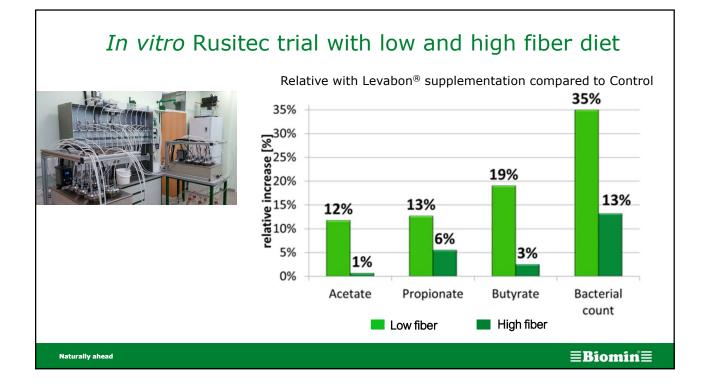


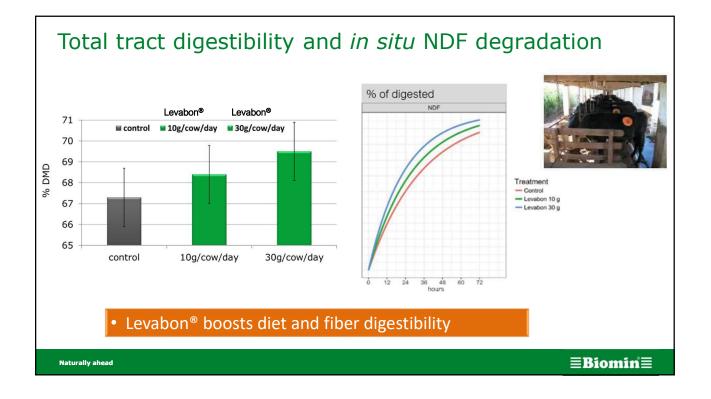


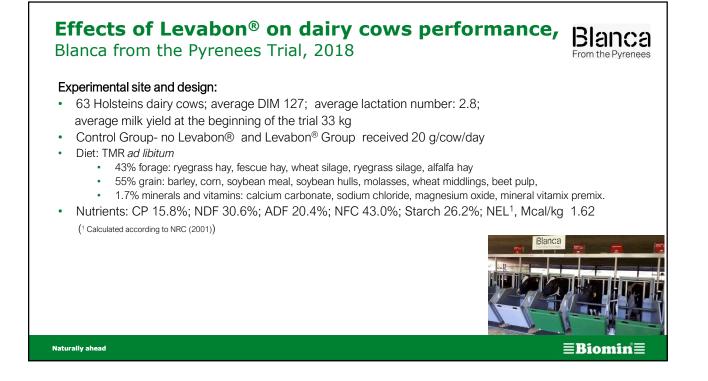


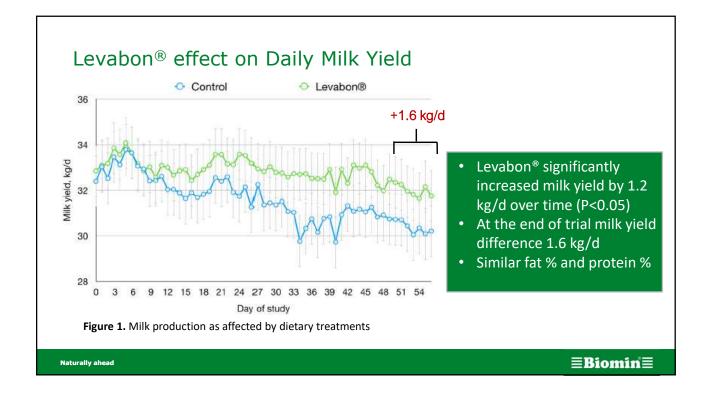


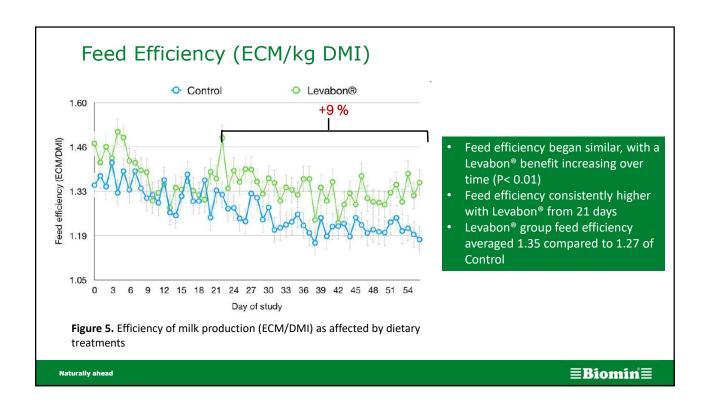












	age, maize silage, concentrate, starch varied from farm to farm from a					,
	N	Control	Treatment	Treatment effect difference	SEM	Р
Overall	178	34.8	35.7	0.87	0.296	0.004
Farm A	32	32.9	34.1	1.26	0.559	0.034
Farm B	64	34.9	35.5	0.60	0.502	0.233
Farm C	52	36.2	37.4	1.16	0.642	0.078
Farm D	30	35.1	35.5	0.41	0.433	0.356

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Levabon[®] trial, Maccarese, Italy

• The aim of this feeding trial was to evaluate the effect of supplementing autolyzed yeast (Levabon[®] Rumen E) on performance parameters of high yielding dairy cows at a large-scale commercial farm under a Mediterranean climate.



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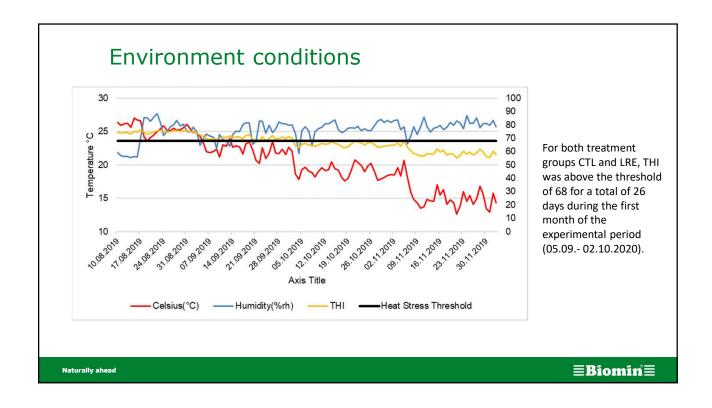
Effects of Levabon[®] on dairy cows performance in Mediterranean climate

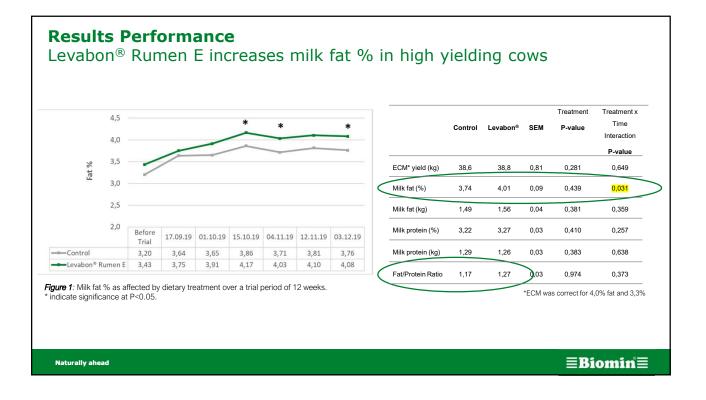
Experimental site and design:

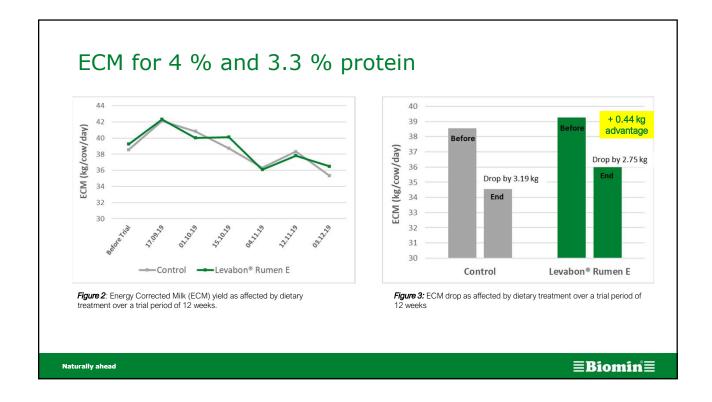
- 200 Holsteins dairy cows; average DIM 80; average lactation number: 2.6; average milk yield 42 kg
- Trial duration 12 weeks (from 05.09.2019 to 3.12.2019)
- Control group no Levabon® and Levabon® group received 25 g/cow/day
- Diet: TMR ad libitum
 - 45.7% forage: corn silage, wheat silage, alfalfa hay, straw
 - 54.3% concentrate: soybean meal, CCM, corn, soybean hulls, cotton seeds, other concentrates
- Nutrients: crude protein (15.8 %), crude fat (3.7 %), NDF (35.0 %), ADF (21.7 %), starch (24.7 %)
- Parameters: milk yield and milk solids
- For statistical analysis 29 cows removed (dried off, culled) leaving Control group 92 cows; Levabon[®] group 79 cows

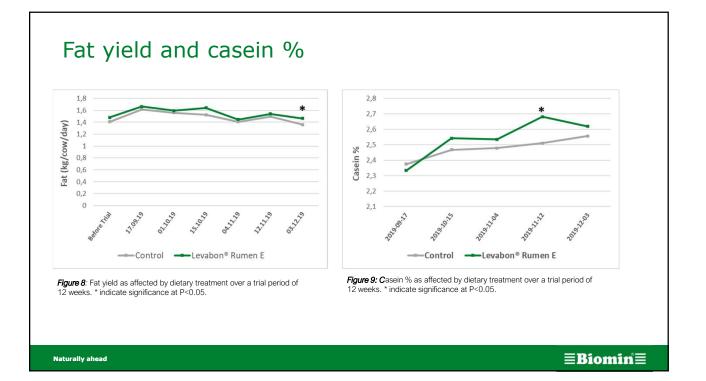
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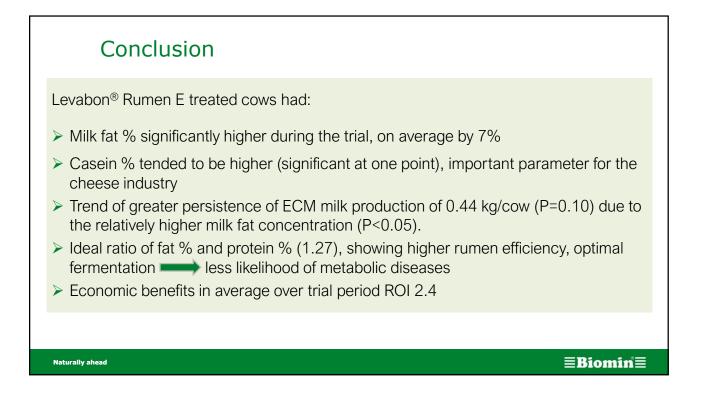


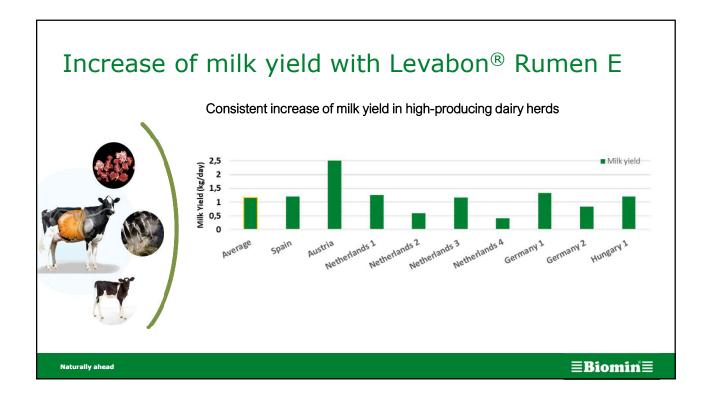


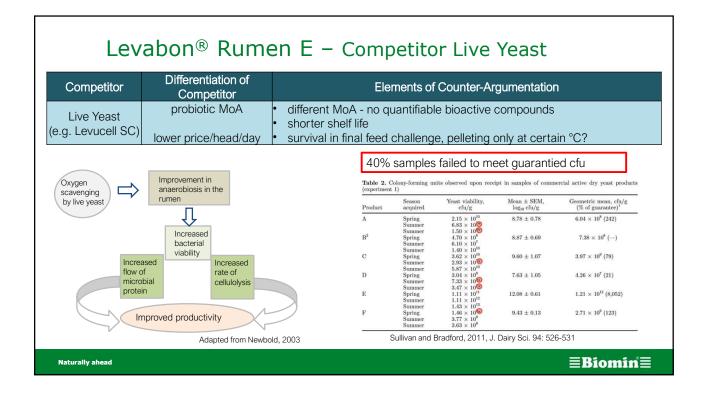


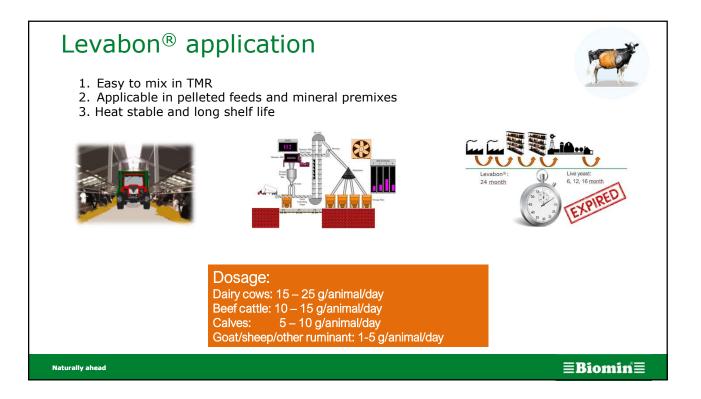


15









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