

# Season's Greetings

From Avesthagen Limited



## A Look Back At 2020

As we near the end of a tumultuous and unprecedented 2020, our visionary systems biology approach that started in 2001, to create novel products and technologies in precision healthcare, preventive wellness and environment adjusted crops has been justified. We are poised to take care of the world and offer solutions for its sanctity and well-being!

As we transition to a resurgent 2021, we would like to thank each of our stakeholders, shareholders, employees, partners and the Parsi community, for their perseverance and support. We know that 2021 will also be a challenging year. However, we have inherited resilience, audacity of hope and a wealth of knowledge built on 20 years of creativity stored in our vaults, that will deliver prosperity for the stakeholders in the 21st century.

As the world did a somersault in 2020, Avesthagen (AVGEN) did one too!

**IT TURNED PROFITABLE!**

CELEBRATING  
20 YEARS OF  
INNOVATION

[www.avesthagen.com](http://www.avesthagen.com)

[f](#) [t](#) [in](#)  
@avesthagen

A quantum leap, through an amalgamation of technologies that traverse genomics and data driven analytics for novel biomarker discovery, nutrigenomics and sustainable agriculture.

**THE AVESTAGENOME PROJECT®** bloomed in 2020, where its value was finally recognized globally after emerging from an enforced ice age after 12 years contributing to understanding Personal and Precision health through application of genomic and data sciences. The Avestagenome Project has stood tall in a year where the importance of population-based genetics in healthcare became critical in understanding host-pathogen interactions. This visionary project is poised for a Breakthrough 2021 with collaborations in place with global pharma and life-science companies.

PRECISION MEDICINE

Cancer  
Neurodegeneration  
Rare disease

BIOMARKER  
&  
DRUG DISCOVERY



HEALTHCARE WELLNESS ENVIRONMENT



# THE dry lab™

THE dry lab™, The state of the art, dedicated lab infrastructure that houses our biorepository, the Zoroastrian-Parsi blood collections, cell lines and thousands of clones, constructs and seeds, a valuable asset built over twenty years of deep science.

THE dry lab™ will be establishing in 2021 a Direct To Consumer (DTC) proprietary genetic, diagnostic tests for cancers, neurodegenerative disease, auto-immune disorders and rare heritable diseases and mitochondrial disorders.

THE dry lab™ comes fully equipped to handle data outflow from Next Generation Sequencing platforms. THE dry lab™ has delivered two publications in 2020:

THE FIRST COMPLETE ZOROASTRIAN-PARSI MITOCHONDRIA REFERENCE GENOME: IMPLICATIONS OF MITOCHONDRIAL SIGNATURES IN AN ENDOGAMOUS, NON-SMOKING POPULATION

DYNAMIC METHYLOME MODIFICATION ASSOCIATED WITH MUTATIONAL SIGNATURES IN AGEING AND ETIOLOGY OF DISEASE



**The NUTRIGENOMICS business** is taking shape and our portfolio of our functional foods and scientifically validated bioactives are converging on a similar DTC model linked to microbiome based genetic tests for diabetes, cardiovascular disease, bone health and stress. Avesta Nordic and Avesta Good Earth Foods are partnering for manufacturing and marketing of the products.

Our dream for global food security through **Environment Adjusted Crops (EAC™)** continues to make use of marginalized land to create plenty. Ava Seeds is pushing towards a global sustainable environment with adjusted crops capable of utilizing saline, dry or fallow land making it productive. Proven genes linked to DroughtFit™, SalinityFit™, NutritionFit™ and HybridFit™ and industrial crops will move to the new CRISPR based gene editing platforms at AVGEN giving way to building new, acceptable Seed.

Our biosimilar portfolio continues to drive interest through repurposing and provide a comprehensive COVID19 management and targeted therapies through partnerships.

Challenges continue and our experiences over the last decade has given us the strength of purpose to manage crisis and keep growth on target.

Wishing you the best this holiday season with your family and loved ones and a brilliant 2021 ahead!