



Chenland Nutritionals, Inc.

# The Guardian of Blood Pressure From the Ocean



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# Introduction

**H**ypertension is one of the most urgent public health challenges and affecting approximately 20% of the adult population worldwide<sup>[1]</sup>. Large cohort studies have demonstrated that high blood pressure (BP) is a risk factor not to be ignored for heart failure, chronic kidney disease, aortic syndromes, and dementia, in addition to coronary heart disease and stroke<sup>[2]</sup>.

**A** primary mechanism of action of antihypertensive drugs is the ACE inhibitor. Many synthetic ACE inhibitors (e.g. captopril) may cause side effects such as taste alterations, cough and skin rashes<sup>[3]</sup>.

**B**ioactive peptides derived from natural food exhibited various functions. Since 1965, large numbers of antihypertensive peptides have been identified from natural creatures like plants, terrestrial animals and marine organisms<sup>[4]</sup>. In addition to bioactivity, peptides also provide numerous nutritional benefits. Epidemiological investigations indicate that consumption of seafood can significantly reduce the incidence of atherosclerosis. Studies indicate that the peptides acquired after hydrolysis of clams exhibited various bioactivities, such as antioxidant<sup>[5]</sup>, anticancer<sup>[6]</sup>, antibacterial<sup>[7]</sup> and anti-hypertension properties.

**C**henland R&D team is working on the development of clam and found it is a potential source for medical food and dietary supplement development according to several modern scientific studies. ClamBP™ is a natural marine active peptide derived from clam meat by our eco-friendly patented bionic enzymolysis technology. ClamBP™ is also a high solubility that has been evaluated in our scientific studies to be safe, bioavailable, and effective in lowering high blood pressure.

