

# The Role of Colostrum Proline-Rich Polypeptides in Human Immunological and Neurological Health

Andrew Keech, John I. Buhmeyer, and Richard Kolt

**Abstract** Mr. Kolt describes his work with colostrum in the United States, Mexico and in Africa where he treats AIDs, autism and many other diseases. Mr. Kolt also uses photobiomodulation with LEDs.

**Keywords:** Colostrum, AIDs.

Colostrum, the first milk produced by a mother after her child is born, is a rich source of beneficial components, including immunological factors, anti-inflammatory factors, gastrointestinal health factors, growth factors, antioxidant and anti-aging factors. It has been used for thousands of years for its health-promoting benefits. As colostrum is mother's milk, the first meal a baby has in this world, it is completely safe and without the dangerous side effects common to pharmaceuticals. For older children and adults, bovine colostrum has proven to be the most efficacious as it contains much higher levels of Immunoglobulin-G (IgG) than human colostrum (which predominantly contains IgA) and because it is produced in large volumes by cows above and beyond what their calves require.

One of the components of colostrum that is of particular interest is PRP, or Proline-Rich Polypeptides. PRP is also known as colostrinin, colostrinine, transfer factor, and other names, but they are all essentially the same fraction of colostrum. Actually a group of related polypeptides, PRPs from colostrum have demonstrated remarkable immunologic and neurologic properties [1]. PRPs immunological function relate to their ability to modulate [2] and stabilize many biological processes in the body including cytokine [3] and immune activity. A polypeptide is a simple string of greater than ten amino acids with no secondary structure like a true protein would have, such as folding, helices, sheets, and so forth. Proline Rich Peptides also exist in colostrum (PRP3,4,5), these are peptides less than ten amino acids. Their small sizes and uncomplicated structure make it easy for it to pass through membranes in the body

---

R. Kolt

Rejuvalight LED Technology, 220 E. Wetmore #110, Tucson, AZ 85705 USA,

e-mail: [mkolt07@aol.com](mailto:mkolt07@aol.com)