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### Authors: S. A. Kalaiselvan, Teena Joseph, N. Vadivelan

**Paper Title:** Interesting Unknown Facts About the Fish and Its Behavior

**Abstract:** The country is gifted with the vast resource in terms of water like rivers, tanks, lakes etc. A fish can be defined as an aquatic creature, which is a cold-blooded vertebrate and has gills throughout life and limbs if any are in form of fins. There are nearly 2500 species out of which 930 are freshwater and the rest are marine. Breathing in depth, it can inson's disease: a form of fins. There are nearly 2500 species out of which 930 are freshwater and the rest are marine. Breathing in depth, it can

**References:**

### Authors: Manish Kumar Jha, Vikas Mittal

**Paper Title:** Analysis of Voice Parameters for the Discrimination of Healthy Voice and Parkinson Disease Affected Voice

**Abstract:** Parkinson Disease (PD) seems to become one of the most prevalent neurological disorders of the twenty first century. Parkinson Disease is known to be an incurable disease because the clinical motor symptoms appear at later stages of the disease and the condition of patients at that point has become deteriorated. Moreover, the situation is further impaired by the lack of any diagnostic procedures or bio-markers for early evaluation of disease. Some recent studies on Parkinson Patients have concluded that the voice irregularities are the few very early appearing symptoms of Parkinson Disease. In this paper the voice analysis techniques are implemented to classify the Parkinson Patients on the voice parameter scales. The voice parameters which are realized in this approach are frequency, amplitude, pitch and formant, by applying Cepstral voice analysis algorithms. Besides providing patients

**Keywords:** Parkinson, PRAAT, Voice Parameters Etc.

**References:**
2ABT (L) = 2-Aminobenzothiazole. Using elemental analysis, IR, 1H-NMR, UV–Vis., molar conductance, magnetic moment and electrochemical studies, the ligands and its metal complexes were characterized. The magnetic moment and electronic spectral data evidenced that all the complexes exhibit square planar geometry. The metal complexes showed better antimicrobial screening than that of its free ligands. Using the cyclic voltammetry technique, the DNA binding behavior of complexes with CT DNA has been studied. The DNA binding constants revealed that intercalation binding mode for all metal complexes with DNA. Antibacterial screening of the ligand and its complexes reveal that all the complexes show higher activities than the ligand.

Keywords: 2-Aminobenzothiazole; Metal–Schiff base Complexes; Spectral; DNA binding; Antimicrobial; Antioxidant activities.

Abbreviations:
2ABT (L) = 2-Aminobenzothiazole;
AA = Ascorbic acid;
DPPH = 2, 2-Diphenyl–1–picrylhydrazyl;
CV = Cyclic voltammogram,
MIC = Minimum inhibitory concentration