(Ganges river systems*In Incia: from as far up as Nainital in the north-west, hand Dibrugath in the north east, the lowermost points being the mouths of RGanges. There Rising report of the sighting or recurrence of the Ganges is usurin any other river-system in India. In Nepal, these detaceans reportedly recovered stat/Deoghat is bout 100 km from the Indo-Nepalese border along the Narayani river swith an afficiency of 250m above sea level.

by in Pakistan, a closely related form, the Indus susu, now given a Separate species status, viz., P. minor, occurred in the Indus river, but the population was getting segregated locally cue to construction of dans.

135. On the occurrence of *Oreacila brevirostris*, the irrawaddy dolphin in Bangladesh.

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Besides the Garges susu. Platanista gangetica, at least three cetacean species trequent the coastal waters of itengradeah. They are Orcaella bravirostris, the brawaddy delphin. Delphinus delphis, the common delphin, and Neophocaana phocaanaides, the firless perpoise. All these forms ascend the rivers in Bangladesh up to a certain limit, and the brawaddy delphin happens to be the most frequently found form. While quite a number get entangled in fishing nets in the Bay of Bangal, at least two dead specimens were found ashore in 1960 and 1978. The collection of the fast-mentioned specimen was followed by repeated queries made to the author from all quarters.

Orgaetta brevirostris is thus not only a rare specimen but also a quite common in the Bay of Bangal, whore it often gets entangled in fishing nets. Further, it ascands the rivers to several miles from their mouths...

136. Isolation, purification and selection of effective strains of Rhizobiym ispanicum.

Syed Ansar Ahmed, Golam Kauser Jozedor, Feuzia Begum and Hamida Begum, Microbiology Section, Food Science and Technology Division, BCSIR Laboratories, Deeps

A large number of *Rhizoblum japonicum* strains neve been isolated from the nodules of soybean plant grown in this country. The characterisation of the purified strains were done by the standard methods. The effectivity of the selucted strains has been confirmed and the paper chromatography showed the presence of the amino acids indicative of the effectiveness.

147. Replid screening of diarrheat petients during an epidemic by dark field microscopy.

William M. Spira. In:dadul Hug. Dazi Shati Afmad and Anwarul Hug. International Centre for Diarrheal Disease Research, Bangladesh.

During a diamheal epidemic which broke out in November 1977, dark field screening was done for detecting *Vibrio cholerae* and non agglutinating *Vibrio*. Stool specimens and rectal swabs were obtained by ractal catheter from moderate

to severely dehydrature patients immediately after hospital admission. Liquid stool sampto and rectal swab were first examined directly by darkfield and phase contrast microscope. Specimens which ware failthally negative were farally examined after enrichment in Bille peptone broth for 3 hours at 1 hour interval, if any organism with the typical carting motility of Vilidos were observed it was tested for inhibition of motifity by Gardner and Venkatraman O group (u , cholerie : , antiserom. If motifity deased in antiserum it was identified as Vibilo cholerae. The organism was then serologically typed with Inaba and Ogawa antisorum. If 0 Group I V. cholered antiserum had no effect on the Vierio motility, the organism was considered to be non-applicating Vibrio. This screening has peen found to facilitate selecting patient negative for Vibrios for other studies like E. coff and flots Virus diarrhes. The bloody reucoidy stool may be selected for dysentery study. From a tota of 1355 patients screened, 856 were found tobe Vibrio cholerae, 37 to be non-agglutinating Vibrio. In about 96% of the cases could be Vibrios identified by dark field from liquid stool samples whereas the percentage is much lower from rects! swabs, it was also found that 3 hours' enrichment culture was more soitable than direct examination for the detection of Vibrio by dark field microscopy. 1

138. Adhasive properties of NAG Vibrio choleme to Isolated rabbit brush border membrane.

Anwarul Huq, William M. Spira, Imdadul Huq and Qazi Shafi Ahmad, International Contro for Diarrhoeal Disease Research, Bangladesh, Dacca.

Non-agglutinating Vibrio chalerae adheres to the brush border membrane isolated from rabbit small intestinal epithelia cells. The rate of adhesion was found optimum at 30°C on agilation. The adhesion of Vibrios on the brush border membrane becomes tirm when they were allowed to adhere for about 30 minutes. Different NAG Vibrio cholerae strains belonging to Heiberg's group I. II. V and VI numbering 40, 106, 37 and 22 respectively were included in the species. The maximum number of Vibrios of group I. II. and V adhered on brush posterior, whereas very few of group VII adhered. Vibrio parahaemslyticus did not adhere at all to the brush border membrane. Forty Tetracycline and Streptomycin resistant strains belonging to group II. V and VII were also included in the shorty. Adherence patterial were found to be same in this group as with the sensitive grades.