Supplamenteoy information Systematic review

Table : Definitions of specific focus for each study

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| **Specific focus** | **Definition** |
| Acidification | Papers looking at the impacts of acidification on *Lutra lutra* |
| Camera traps | Papers on camara traps for studying *Lutra lutra* |
| Methods | Methods papers outlining how to perform techniques for studying *Lutra lutra* |
| Chemical communication | Papers looking at the chemical signalling used by otters for inter and intra species interactions |
| Reviews | Papers reviewing a topic covered in the literature of *Lutra lutra e.g.,* genetics or survey techniques but also including species reviews. |
| Daily routine | The daily habits of *Lutra lutra* |
| Determination of age | Papers looking at otter ages normally through post-mortems |
| Development | Papers looking at the development of *Lutra lutra* from juveniles to adulthood. |
| Diet | Diet studies looking at the prey species of *Lutra lutra* |
| Disease | Studies looking at disease in *Lutra lutra* |
| Health | Investigations looking at the general health of otters, with topics such as body condition cause of death. |
| Genetics | Studys looking at the genetics of *Lutra lutra* for example genomic diversity or historic population bottlenecks |
| Habitat use | Papers looking at the use of different habitats within the terretories of *Lutra lutra* generally looking to determine what otters need to sustain a population. |
| Habitat subtility | Papers which classify the quality of habitat for *Lutra lutra* often using modelling from data obtained with surveys and habitat usage papers. |
| Heavy metals | Papers looking at the levels of common metal contaminants such as lead, Iron, Zinc, etc |
| POP’s | Papers looking at persistent organic pollutants such as DDT and organochlorides |
| Human impacts | Papers focusing on land use changes in the environment such as deforestation or urbanisation on the effects on otters. |
| Microbiome | Papers on the microbiome of *Lutra lutra* |
| Mortality | Papers which through postmortem have determined the causes of death in *Lutra lutra* |
| Niche occupation | Papers on the niche occupation of *Lutra lutra* through its interactions with other species often with a focus on diet |
| Parasites | Papers focusing on parasites |
| Physiology | Physiology papers looking at for example metabolism |
| Population distribution | Investigations into the distribution of *Lutra lutra* indifferent areas of the species range. |
| Population genetics | Papers with a specific focus on the population genetics of *Lutra lutra* normally with microsatellites |
| Population size | Papers which focus on the population size in each area often using surveys to estimate numbers. |
| Population structure | Papers using genetics to determine are their genetic barriers or if there is cryptic diversity within known populations bit that a small and large scale. |
| Predation | Behavioural studies looking at hunting techniques exhibited by otters. |
| Reintroduction | Studies looking at reintroduction programmes and documenting their success and failures |
| Reproduction | Papers looking at the reproductive constraints and requirements of *Lutra lutra* |
| Interactions | Behavioural studies looking at how individual associate with each other. |
| Spraining behaviour | Behavioural studies looking at where and how often *Lutra lutra deposits spraint and what factors effect this behaviour.* |
| Surveys | Papers reporting the results of population surveys. |
| Taxonomy | Papers on the taxonomic status of *Lutra lutra* |
| Territoriality | Behavioural papers on how territorial *Lutra lutra*  is and how the species marks territory. |