



絶滅危惧種メダカに関する文献集

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Bibliography on an endangered fish, Medaka, *Oryzias latipes*

(Temminck & Schlegel)

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Synopsis

Bibliography on Medaka fish, *Oryzias latipes*, was compiled as a list. Medaka is known as a paddy fish, whose wild populations have recently reduced. This is soon followed by that they are categorized as an endangered species in the Japanese Red Data Book (2003). Their decline in nature is chiefly due to the decrease of paddy fields suitable for their propagation, and to the separation of migratory pathway between paddy fields and ditches. On Medaka, much information has been accumulated so far as about experimental fish and ornamented fish. However, it lacks in basic biology on the wild Medaka. This bibliography lists scientific papers, articles of newspaper and other miscellaneous printed materials with specific order both in English and Japanese. This aims to provide necessary information to the persons such as researchers and citizen volunteers who willingly take part in the protection activities of the wild Medaka.

はしがき

メダカは流れのゆるやかな河川、小川に生息する卵生の淡水魚で、東アジアの熱帯から温帯域にかけ分布する。日本では特に親しまれ、属名に“稲” (*Oryza sativa*) に由来する *Oryzias* が用いられていることから、水田環境を象徴する魚とされている。メダカは水温と光条件が満たされれば1年中産卵するほど繁殖力が旺盛で、しかも温度耐性が幅広く、塩分耐性も強い。このように、本種はもともと多様な水質環境に適応することができ、飼育が容易で、かつ非常に安価で入手することができるため、実験動物や観賞魚として頻繁に用いられてきた。

戦後、農業の効率化を目的とした大規模な圃場整備事業によって我が国の水田環境は一変し、野生メダカは激減してしまった。野生メダカは水田を繁殖場所・生育場所として積極的に利用することが知られており、その生活環を水田ネットワークに合わせ個体群を維持してきたと考えられている。そのため、生息地としての水田そのものの減少、水田と農業用水路との間の大きな段差、パイプライン化にともなうネットワークの分断は大きな影響を及ぼしていると思われる。

これを受けて、旧環境庁は1999年にメダカを「絶滅危惧Ⅱ類」に指定した。各都道府県も地方版レッドデータブックにおいて本種を絶滅危惧種に位置づけている。それを契機に野生メダカ復活の機運は全国的に高まってはいるが、ヒメダカの放流で代表されるように、地域特性や系統を無視した無計画な放流が公然と行われている。そのため、生物多様性本来の目標にかなう施策を立案するためにも、野生メダカに関する正確な情報を数多く収集し、保護の担い手に提供することが急務となっている。

山本時男博士は1975年に総説書“The Medaka”を刊行されているが、これを含め、メダカに関する情報はこれまで発生学、遺伝学、生理学、薬理学などヒメダカを用いた実験室内のデータに基づくものにかたより、野生メダカの生態に関する情報は絶対的に不足しているのが現状である。

本資料は野生メダカの保全に関する情報をはじめ、文献をさまざまな分野に整理したものである。ただし、本資料は発生工学や遺伝に関する情報提供を目的としていない。それらの分野に関しては、

名古屋大学ホームページのメダカデータベースを参照していただきたい。目録作成では原典に当たることを心がけたが、入手できなかった文献については孫引きによって収録した。文献出典の表示方法は、日本魚類学会刊行の魚類学雑誌最新号(51巻1号)に従った。目録は研究分野別に示し、最後に全文献を文献番号順に並べた。また、研究分野が多岐にわたるものでは重複して配置した。資料の編集は水産生物学研究室の北川忠生博士、本学部博士後期課程の藤田朝彦氏、平成14年度農学研究科水産学専攻の岡谷佳澄氏(現日本メンテナンス株式会社環境試験所)、平成13年度水産生物学専攻生の朝井俊亘氏(現近畿大学付属新宮高校教諭)、“近大メダカの学校”の学生諸氏、特に八田実紀・松永京子・横田彰子さん、および森本昌平君の協力に負うところが大きい。なお、編集作業の一部は、財団法人リバーフロント整備センターに設置された外来種対策・検討委員会のケーススタディのための予算による。合わせて謝意を表したい。本資料は1950年以降の文献を中心に整理したもので、発生や遺伝に関する資料はいまだ不完全であることは承知しているが、野生メダカに関する情報が不足している今日、それらを整理し社会に提供することは重要であると思われる。本資料が野生メダカを保護するための一助となることを願ってやまない。

分類 (Taxonomy)

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