

菌根性キノコ類中における放射性セシウム

| 種        | 和名                | 学名   | 国              | 調査日               | セシウムレベルもしくは比率<br>a  | 移行係数が凝集移行係数<br>(Tag)                                     | 引用文献  |
|----------|-------------------|--|----------------|-------------------|---|--|---|
| 137      | ベニテングタケ           | Amanita muscaria                             | Spain          | 1987, 1990        | 5 Bq/kg   | No data  | Baeza et al. (2004)                                 |
| 137      | ベニテングタケ           | Amanita muscaria                             | Ukraine        | 1996-1998         | 8700-13,400 Bq/kg   | TF: 1.0  | Vinichuk and Johanson (2003)                        |
| 137      | ベニテングタケ           | Amanita muscaria                             | Austria        | 1987-1989         | 1-250 Bq/kg fw  | TF: 0-0.25   | Heinrich (1993)                                     |
| 137      | テングタケ属の一種         | Amanita ponderosa                            | Spain          | 1987, 1990        | 5 Bq/kg<br>Ratioed to B. badius: 0.42-2.52  | No data  | Baeza et al. (2004)                                 |
| 137      | コテングタケ            | Amanita porphyria                            | Germany        | 1987-1990         | 2.52  | No data  | Kammerer et al. (1994)                              |
| 133      | ガンタケ              | Amanita rubescens                            | Czech Republic | Late 1990s, Early | Up to 1 mg/kg   | No data  | Randa and Kucera (2004)                             |
| 137      | ガンタケ              | Amanita rubescens                            | Austria        | 1987-1989         | 2001-4000 Bq/kg fw  | TF: 0-0.25   | Heinrich (1993)                                     |
| 137      | ガンタケ              | Amanita rubescens                            | United Kingdom | Summer 1996       | 150-220 Bq/kg   | Tag: 0.0058-0.0085                                       | Toal et al. (2002)                                  |
| 137      | ガンタケ              | Amanita rubescens                            | United Kingdom | 1987, 1990        | 45.5 Bq/kg  | No data  | Watling et al. (1993)                               |
| 137      | アワタケ              | Boletus (or Xerocomus) subtomentosus         | Austria        | 1987-1989         | 501-1000 Bq/kg fw   | TF: 0-0.25   | Heinrich (1993)                                     |
| 137      | アワタケ              | Boletus (or Xerocomus) subtomentosus         | Ukraine        | 1996-1998         | 20,500-117,200 Bq/kg  | TF: 3.1  | Vinichuk and Johanson (2003)                        |
| 137      | アワタケ              | Boletus (or Xerocomus) subtomentosus         | United Kingdom | 1987, 1990        | At background   | No data  | Watling et al. (1993)                               |
| 137      | ニセイロガワリ           | Boletus (or X.) badius                       | Germany        | 1966              | 1133 Bq/kg fw   | No data  | Grueter (1971)                                      |
| 137      | ニセイロガワリ           | Boletus (or X.) badius                       | Austria        | 1987-1989         | 8001-16,000 Bq/kg fw  | TF: 1.01-2.0   | Heinrich (1993)                                     |
| 137      | ニセイロガワリ           | Boletus (or X.) badius                       | Germany        | 1987-1990         | 1320-4365 Bq/kg fw<br>1200-66,000 Bq<br>134,137Cs/kg; Mean: 19,000  | TF: 0.7-5.0; Mean: 2.0                                   | Kammerer et al. (1994)                              |
| 134, 137 | ニセイロガワリ           | Boletus (or X.) badius                       | Yugoslavia     | 1986              | Bq 134,137Cs/kg<br>13.1-3250 Bq 137Cs/kg;<br>Mean: 434  | No data<br>TF: 4.82; Tag: 3.79 Bq                        | Byrne (1988)  |
| 137      | ニセイロガワリ           | Boletus (or X.) badius                       | United Kingdom | 1994-1996         | 71.0 Bq/kg  | 137Cs/kg<br>Tag: 0.0027                                  | Barnett et al. (1999)                               |
| 137      | アシベニイグチ           | Boletus calopus                              | United Kingdom | Autumn 1996       | 1345-1570 Bq/kg   | Tag: 0.056   | Toal et al. (2002)                                  |
| 137      | イグチ(アワタケ)属の一種     | Boletus (or X.) chrysenteron                 | United Kingdom | Autumn 1996       | 1345-1570 Bq/kg   | Tag: 0.056   | Toal et al. (2002)                                  |
| 137      | イグチ(アワタケ)属の一種     | Boletus (or X.) chrysenteron                 | Austria        | 1987-1989         | 8001-16,000 Bq/kg fw  | TF: >4.0   | Heinrich (1993)                                     |
| 137      | ヤマドリタケ            | Boletus edulis                               | Ukraine        | 1996-1998         | 2000-41,200 Bq/kg   | TF: 2.3  | Vinichuk and Johanson (2003)                        |
| 137      | ヤマドリタケ            | Boletus edulis                               | Austria        | 1987-1989         | 501-1000 Bq/kg fw   | TF: 0-0.25   | Heinrich (1993)                                     |
| 133      | ヤマドリタケ            | Boletus edulis                               | Czech Republic | Late 1990s, Early | Up to 2.73 mg/kg  | No data  | Randa and Kucera (2004)                             |
| 137      | ヤマドリタケ            | Boletus edulis                               | United Kingdom | 1987, 1990        | 68.4 Bq/kg<br>31.6-1760 Bq 137Cs/kg;<br>Mean: 284 Bq 137Cs/kg   | No data<br>TF: 4.28; Tag: 3.28                           | Watling et al. (1993)<br>Barnett et al. (1999)      |
| 133      | イグチ(orヌメリイグチ)属の一種 | Boletus (or Suillus)                         | Czech Republic | Late 1990s Early  | Up to 2.06 mg/kg  | No data  | Randa and Kucera (2004)                             |
| 137      | イグチ(orヌメリイグチ)属の一種 | Boletus (or Suillus) variegatus              | Germany        | 1987-1990         | 0.55; 665-1250 Bq/kg fw   | Ratioed to B. badius: 0.37-0.55; TF: 0.98-1.1; Mean: 1.0 | Kammerer et al. (1994)                              |
| 137      | イグチ(orヌメリイグチ)属の一種 | Boletus (or Suillus)                         | Ukraine        | 1996-1998         | Mean: 98,800 Bq/kg  | TF: 2.6  | Vinichuk and Johanson (2003)                        |
| 137      | イグチ(orヌメリイグチ)属の一種 | Boletus (or Suillus)                         | Austria        | 1987-1989         | 1001-2000 Bq/kg fw  | TF: 0.51-1.0   | Heinrich (1993)                                     |
| 137      | アンズタケ             | Cantharellus cibarius                        | Austria        | 1987-1989         | 1001-2000 Bq/kg fw  | TF: 1.01-2.0   | Heinrich (1993)                                     |
| 137      | アンズタケ             | Cantharellus cibarius                        | Ukraine        | 1996-1998         | Mean: 15,400 Bq/kg  | TF: 5.0  | Vinichuk and Johanson (2003)                        |
| 133      | アンズタケ             | Cantharellus cibarius                        | Czech Republic | Late 1990s, Early | Mean: 1.04 mg/kg  | No data  | Randa and Kucera (2004)                             |
| 137      | アンズタケ             | Cantharellus cibarius                        | United Kingdom | 1987, 1990        | 133 Bq/kg   | No data  | Watling et al. (1993)                               |
| 137      | アンズタケ             | Cantharellus cibarius                        | Italy          | 1986              | 4991-27,626 Bq/kg   | Tag: 0.125-0.691   | Battiston et al. (1989)                             |
| 137      | アンズタケ属の一種         | Cantharellus lutescens                       | Italy          | 1986              | 1393-5648 Bq/kg   | No data  | Battiston et al. (1989)                             |
| 134      | アンズタケ属の一種         | Cantharellus lutescens                       | Italy          | 1986              | 1894-11,568 Bq/kg   | Tag: 0.095-0.578   | Battiston et al. (1989)                             |
| 133      | アンズタケ属の一種         | Cantharellus lutescens                       | Czech Republic | Late 1990s, Early | Mean: 1.53 mg/kg  | No data  | Randa and Kucera (2004)                             |
| 137      | アンズタケ属の一種         | Cantharellus tubaeformis                     | Germany        | 1987-1990         | Ratioed to B. badius: 0.39-1.71; 1700-3270 Bq/kg fw   | TF: 0.52-4.3; Mean: 2.3                                  | Kammerer et al. (1994)                              |
| 137      | ツバフウセンタケ          | Cortinarius armillatus                       | Europe         | 1974              | Mean: 5185 Bq/kg<br>21,000-96,000 Bq<br>134,137Cs/kg; Mean: 51,000  | No data  | Haselwandter (1978)                                 |
| 134, 137 | ツバフウセンタケ          | Cortinarius armillatus                       | Yugoslavia     | 1986              | Bq 134,137 Cs/kg  | No data  | Byrne (1988)  |
| 137      | フウセンタケ属の一種        | Cortinarius caperatus or Rozites caperata    | Germany        | 1987-1990         | Ratioed to B. badius: 0.64-1.36; 2090-3070 Bq/kg fw<br>2100-62,000 Bq<br>134,137Cs/kg; Mean: 22,600                 | TF: 2.1-3.3; Mean: 2.8                                   | Kammerer et al. (1994)                              |
| 134, 137 | フウセンタケ属の一種        | Cortinarius caperatus or Rozites caperata    | Yugoslavia     | 1986              | Bq 134,137Cs/kg   | No data  | Byrne (1988)  |
| 137      | フウセンタケ属の一種        | Cortinarius caperatus or Rozites caperata    | Austria        | 1987-1989         | >32,000 Bq/kg fw  | TF: >4.0   | Heinrich (1993)                                     |
| 137      | フウセンタケ属の一種        | Cortinarius caperatus or Rozites caperata    | Europe         | 1974              | Mean: 103.70 Bq/kg  | No data  | Haselwandter (1978)                                 |
| 133      | フウセンタケ属の一種        | Cortinarius caperatus or Rozites caperata    | Czech Republic | Late 1990s, Early | Mean: 8.39 mg/kg  | No data  | Randa and Kucera (2004)                             |
| 137      | フウセンタケ属の一種        | Cortinarius intergerrimus                    | Austria        | 1987-1989         | 4001-8000 Bq/kg fw<br>360-670 Bq 134,137Cs/kg;<br>Mean: 530 Bq 134,137Cs/kg   | TF: 2.01-4.0   | Heinrich (1993)                                     |
| 134, 137 | ムレオオフウセンタケ        | Cortinarius praestans                        | Yugoslavia     | 1986              | Mean: 530 Bq 134,137Cs/kg   | No data  | Byrne (1988)  |
| 137      | フタイロニセフウセンタケ      | Cortinarius saturninus                       | Japan          | Sept.-Dec. 1990   | 1700 Bq/kg  | No data  | Yoshida et al. (1994), Yoshida and Muramatsu (1994) |
| 134      | フタイロニセフウセンタケ      | Cortinarius saturninus                       | Japan          | Sept.-Dec. 1990   | <10 Bq/kg   | No data  | Yoshida et al. (1994), Yoshida and Muramatsu (1994) |
| 137      | フウセンタケ属の一種        | Cortinarius semisanguineus                   | Germany        | 1987-1990         | Ratioed to B. badius: 0.97-2.64<br>5100-17,900 Bq<br>134,137Cs/kg; Mean: 12,000                                     | No data  | Kammerer et al. (1994)                              |
| 134, 137 | オオウスムラサキフウセンタケ    | Cortinarius traganus                         | Yugoslavia     | 1986              | Bq 134,137Cs/kg   | No data  | Byrne (1988)  |
| 137      | ワカフサタケ属の一種        | Hebeloma cylindrosporium                     | Spain          | 1987 and 1990     | 647 Bq/kg   | No data  | Baeza et al. (2004)                                 |
| 137      | ワカフサタケ属の一種        | Hebeloma sp.                                 | Japan          | 1983-1990         | 16,300 Bq/kg  | No data  | Yoshida et al. (1994), Yoshida and Muramatsu (1994) |
| 134      | ワカフサタケ属の一種        | Hebeloma sp.                                 | Japan          | 1983-1990         | 436 Bq/kg   | No data  | Yoshida et al. (1994), Yoshida and Muramatsu (1994) |
| 137      | シロカノシタ            | Hydnum (Dentinum) Hydnum (Dentinum) repandum | Austria        | 1987-1989         | 16,000-32,000 Bq/kg ww<br>Ratioed to B. badius: 1.87-6.38; 2420-1500 Bq/kg fw                                       | TF: >4.0   | Heinrich (1993)                                     |
| 137      | シロカノシタ            | Hydnum (Dentinum) repandum                   | Germany        | 1987-1990         | 6.38; 2420-1500 Bq/kg fw  | TF: 1.1-4.3; Mean: 2.3                                   | Kammerer et al. (1994)                              |
| 137      | サクラシメジ            | Hygrophorus russula                          | Japan          | Sept.-Dec. 1990   | 998 Bq/kg   | No data  | Yoshida et al. (1994), Yoshida and Muramatsu (1994) |
| 134      | サクラシメジ            | Hygrophorus russula                          | Japan          | Sept.-Dec. 1990   | <9 Bq/kg  | No data  | Yoshida et al. (1994), Yoshida and Muramatsu (1994) |
| 137      | アセタケ属の一種          | Inocybe sp.                                  | Japan          | Sept.-Dec. 1990   | <38-887 Bq/kg   | No data  | Yoshida et al. (1994), Yoshida and Muramatsu (1994) |
| 134      | アセタケ属の一種          | Inocybe sp.                                  | Japan          | Sept.-Dec. 1990   | <4e50 Bq/kg<br>Ratioed to B. badius: 0.3-1.96; 435-5115 Bq/kg fw<br>12,000-117,000 Bq<br>134,137Cs/kg; Mean: 52,000 | No data<br>TF: 0.36-3.0; Mean: 1.6                       | Yoshida et al. (1994), Yoshida and Muramatsu (1994) |
| 137      | ウラムラサキ            | Laccaria amethystina                         | Germany        | 1987-1990         | 1.96; 435-5115 Bq/kg fw<br>12,000-117,000 Bq<br>134,137Cs/kg; Mean: 52,000  | TF: 0.36-3.0; Mean: 1.6                                  | Kammerer et al. (1994)                              |
| 134, 137 | ウラムラサキ            | Laccaria amethystina                         | Yugoslavia     | 1986              | Bq 134,137Cs/kg   | No data  | Byrne (1988)  |
| 137      | チチタケ属の一種          | Lactarius blennius                           | United Kingdom | 1987, 1990        | 110-1479 Bq/kg  | No data  | Watling et al. (1993)                               |
| 137      | チリメンチチタケ          | Lactarius corrugis                           | Japan          | Sept.-Dec. 1990   | 2700 Bq/kg  | No data  | Yoshida et al. (1994), Yoshida and Muramatsu (1994) |
| 134      | チリメンチチタケ          | Lactarius corrugis                           | Japan          | Sept.-Dec. 1990   | 51.6 Bq/kg<br>Ratioed to B. badius: 0.1-0.18; 185-235 Bq/kg fw  | No data<br>TF: 0.13-0.26; Mean: 0.2                      | Yoshida et al. (1994), Yoshida and Muramatsu (1994) |
| 137      | アカハツタケ            | Lactarius deliciosus                         | Germany        | 1987-1990         | 0.18; 185-235 Bq/kg fw  | TF: 0.13-0.26; Mean: 0.2                                 | Kammerer et al. (1994)                              |
| 137      | アカハツタケ            | Lactarius deliciosus                         | Spain          | Not known         | 36 Bq/kg  | No data  | Baeza et al. (2004)                                 |
| 137      | アカハツタケ            | Lactarius deliciosus                         | Austria        | 1987-1989         | 251-500 Bq/kg ww  | TF: 0-0.25   | Heinrich (1993)                                     |

|                |  |                |                 |  |                           |  |
|----------------|--|----------------|-----------------|--|---------------------------|--|
| 137 アカハツタケ     | Lactarius deliciosus                             | United Kingdom | Autumn 1996     | 2 Bq/kg  | Tag: 0.000077             | Toal et al. (2002)   |
| 137 チチタケ属の一種   | Lactarius hepaticus                              | United Kingdom | Autumn 1996     | 1713-1761 Bq/kg                                      | Tag: 0.066-0.068          | Toal et al. (2002)   |
| 137 ウグイスチャチタケ  | Lactarius necator                                | Ukraine        | 1996-1998       | Mean: 52,700 Bq/kg                                   | TF: 4.9                   | Vinichuk and Johanson (2003)   |
| 137 ウグイスチャチタケ  | Lactarius necator                                | Austria        | 1987-1989       | 4001-8000 Bq/kg ww                                   | TF: 1.01-2                | Heinrich (1993)  |
| 137 ツチカブリ      | Lactarius piperatus                              | Japan          | Sept.-Dec. 1990 | 59-1500 Bq/kg  | No data                   | Yoshida et al. (1994), Yoshida and Muramatsu (1994)                          |
| 134 ツチカブリ      | Lactarius piperatus                              | Japan          | Sept.-Dec. 1990 | 21.3 Bq/kg   | No data                   | Yoshida et al. (1994), Yoshida and Muramatsu (1994)                          |
| 137 チチタケ属の一種   | Lactarius rufus                                  | United Kingdom | 1980s           | 3900 Bq/kg   | No data                   | Dighton and Horrill (1988), as cited in Simkiss et al. (1993)                |
| 137 チチタケ属の一種   | Lactarius rufus                                  | Germany        | 1987-1990       | Ratioed to B. badiusc: 1.09-2.04                     | No data                   | Kammerer et al. (1994)   |
| 137 チチタケ属の一種   | Lactarius rufus                                  | United Kingdom | Autumn 1996     | 566e1961 Bq/kg                                       | Tag: 0.022-0.076          | Toal et al. (2002)   |
| 137 チチタケ属の一種   | Lactarius rufus                                  | Austria        | 1987-1989       | 8001-16,000 Bq/kg ww                                 | TF: 1.01-2                | Heinrich (1993)  |
| 137 ケシロハツ      | Lactarius vellereus                              | United Kingdom | 1987, 1990      | 117-880 Bq/kg  | No data                   | Watling et al. (1993)  |
| 137 ケシロハツ      | Lactarius vellereus                              | Austria        | 1987-1989       | 1001-2000 Bq/kg ww                                   | TF: 0.25-0.5              | Heinrich (1993)  |
| 137 チチタケ属の一種   | Lactarius viestus                                | Ukraine        | 1996-1998       | Mean: 56,500 Bq/kg                                   | TF: 23.7                  | Vinichuk and Johanson (2003)   |
| 137 ヒダハタケ      | Paxillus involutus                               | Germany        | 1963-1966       | 216-1097 Bq/kg fw                                    | No data                   | Grueter (1971)   |
| 137 ヒダハタケ      | Paxillus involutus                               | Europe         | 1974            | Mean: w1481 Bq/kg                                    | No data                   | Haselwandter (1978)  |
| 137 ヒダハタケ      | Paxillus involutus                               | Germany        | 1987-1990       | Ratioed to B. badiusc: 1.24-2.43                     | No data                   | Kammerer et al. (1994)   |
| 137 ヒダハタケ      | Paxillus involutus                               | Ukraine        | 1996-1998       | Mean: 862,100 Bq/kg                                  | TF: 21.6                  | Vinichuk and Johanson (2003)   |
| 137 ヒダハタケ      | Paxillus involutus                               | United Kingdom | 1987, 1990      | At background to 60.5                                | No data                   | Watling et al. (1993)  |
| 137 ヒダハタケ      | Paxillus involutus                               | Austria        | 1987-1989       | 8001-16,000 Bq/kg ww                                 | TF: 2.01-4.0              | Heinrich (1993)  |
| 137 ウラベニホテイシメジ | Rhodophyllus crassipes                           | Japan          | Sept.-Dec. 1990 | 2050 Bq/kg   | No data                   | Yoshida et al. (1994), Yoshida and Muramatsu (1994)                          |
| 134 ウラベニホテイシメジ | Rhodophyllus crassipes                           | Japan          | Sept.-Dec. 1990 | <11 Bq/kg  | No data                   | Yoshida et al. (1994), Yoshida and Muramatsu (1994)                          |
| 137 クサウラベニタケ   | Rhodophyllus rhodopolius or Entoloma rhodopolium | Japan          | Sept.-Dec. 1990 | 149e2210 Bq/kg                                       | No data                   | Yoshida et al. (1994), Yoshida and Muramatsu (1994)                          |
| 134 クサウラベニタケ   | Rhodophyllus rhodopolius or Entoloma rhodopolium | Japan          | Sept.eDec.      | 25 Bq/kg   | No data                   | Yoshida et al. (1994), Yoshida and Muramatsu (1994)                          |
| 137 クサウラベニタケ   | Rhodophyllus rhodopolius or Entoloma rhodopolium | United Kingdom | Summer 1996     | 163-388 Bq/kg  | Tag: 0.0063-0.015         | Toal et al. (2002)   |
| 137 ベニタケ属の一種   | Russula aeruginea                                | United Kingdom | 1987, 1990      | 414.7-832.5 Bq/kg                                    | No data                   | Watling et al. (1993)  |
| 137 ベニタケ属の一種   | Russula mairei                                   | United Kingdom | 1987, 1990      | 251.6-1011.3 Bq/kg                                   | No data                   | Watling et al. (1993)  |
| 137 クロハツ       | Russula nigricans                                | United Kingdom | 1987, 1990      | 107.4-395 Bq/kg                                      | No data                   | Watling et al. (1993)  |
| 137 クロハツ       | Russula nigricans                                | Japan          | Sept.-Dec. 1990 | 107 Bq/kg  | No data                   | Yoshida et al. (1994), Yoshida and Muramatsu (1994)                          |
| 134 クロハツ       | Russula nigricans                                | Japan          | Sept.-Dec. 1990 | <8 Bq/kg   | No data                   | Yoshida et al. (1994), Yoshida and Muramatsu (1994)                          |
| 137 クロハツ       | Russula nigricans                                | Austria        | 1987-1989       | 2001-4000 Bq/kg ww                                   | TF: 0.5-1.0               | Heinrich (1993)  |
| 137 ヤマブキハツ     | Russula ochroleuca                               | Germany        | 1987-1990       | Ratioed to B. badiusc: 0.21-2.70; 1480-3870 Bq/kg fw | TF: 0.53-1.8; Mean: 1.1   | Kammerer et al. (1994)   |
| 137 ヤマブキハツ     | Russula ochroleuca                               | United Kingdom | Summer 1996     | 112-1558 Bq/kg; Mean: 633 Bq/kg                      | Tag: 0.014-0.06           | Toal et al. (2002)   |
| 137 ヤマブキハツ     | Russula ochroleuca                               | United Kingdom | 1987, 1990      | 195.2 Bq/kg  | No data                   | Watling et al. (1993)  |
| 137 ヤマブキハツ     | Russula ochroleuca                               | Austria        | 1987-1989       | 2001-4000 Bq/kg ww                                   | TF: 0.25-0.5              | Heinrich (1993)  |
| 137 ニオイベニハツ    | Russula xerampelina                              | Germany        | 1987-1990       | Ratioed to B. badiusc: 0.29-1.16; 620-5175 Bq/kg fw  | TF: 0.83-5.4; Mean: 2.0   | Kammerer et al. (1994)   |
| 137 ベニタケ属菌の一種  | Russula sardonica                                | United Kingdom | Summer 1996     | 1558 Bq/kg   | Tag: 0.06                 | Toal et al. (2002)   |
| 137 コウタケ       | Sarcodon aspratus                                | Japan          | Sept.-Dec. 1990 | 2080 Bq/kg   | No data                   | Yoshida et al. (1994), Yoshida and Muramatsu (1994)                          |
| 134 コウタケ       | Sarcodon aspratus                                | Japan          | Sept.-Dec. 1990 | 16.1 Bq/kg   | No data                   | Yoshida et al. (1994), Yoshida and Muramatsu (1994)                          |
| 137 シシタケ       | Sarcodon imbricatus                              | Ukraine        | 1996-1998       | Mean: 97,900 Bq/kg                                   | TF: 22.2                  | Vinichuk and Johanson (2003)   |
| 137 シシタケ       | Sarcodon imbricatus                              | Germany        | 1987-1990       | Ratioed to B. badiusc: 0.29-1.16; 410-1170 Bq/kg fw  | TF: 0.1-1.2; Mean: 0.59   | Kammerer et al. (1994)   |
| 137 シシタケ       | Sarcodon imbricatus                              | Austria        | 1987-1989       | 501-1000 Bq/kg ww                                    | TF: 0.25-2.0              | Heinrich (1993)  |
| 137 ニセシヨウロ     | Scleroderma citrinum                             | United Kingdom | 1987, 1990      | 497.6 Bq/kg  | No data                   | Watling et al. (1993)  |
| 137 アミタケ       | Suillus bovinus                                  | Japan          | Sept.-Dec. 1990 | 77-1330 Bq/kg  | No data                   | Yoshida et al. (1994), Yoshida and Muramatsu (1994)                          |
| 134 アミタケ       | Suillus bovinus                                  | Japan          | Sept.-Dec. 1990 | <17 Bq/kg  | No data                   | Yoshida et al. (1994), Yoshida and Muramatsu (1994)                          |
| 137 アミタケ       | Suillus bovinus                                  | Germany        | 1987-1990       | Ratioed to B. badiusc: 0.27-0.4; 660-760 Bq/kg fw    | TF: 0.35-0.98; Mean: 1.0  | Kammerer et al. (1994)   |
| 137 アミハナイグチ?   | Suillus (or Boletus) cavipes                     | Italy          | 1986            | 1460-5146 Bq/kg                                      | Tag: 0.146-0.643          | Battiston et al. (1989)  |
| 137 アミハナイグチ?   | Suillus (or Boletus) cavipes                     | Italy          | 1986            | 389-1843 Bq/kg                                       | No data                   | Battiston et al. (1989)  |
| 134 アミハナイグチ?   | Suillus (or Boletus) cavipes                     | Italy          | 1986            | 557-1738 Bq/kg                                       | Tag: 0.139-0.435          | Battiston et al. (1989)  |
| 137 チチアワタケ     | Suillus granulatus                               | Ukraine        | 1996-1998       | Mean: 44,200 Bq/kg                                   | TF: 12.2                  | Vinichuk and Johanson -2003  |
| 137 チチアワタケ     | Suillus granulatus                               | Japan          | Sept.-Dec. 1990 | 136-1150 Bq/kg                                       | TF: 16 (0-5cm of soil)    | Yoshida et al. (1994), Muramatsu et al. (1991), Yoshida and Muramatsu (1994) |
| 134 チチアワタケ     | Suillus granulatus                               | Japan          | Sept.-Dec. 1990 | <13 Bq/kg  | No data                   | Yoshida et al. (1994), Muramatsu et al. (1991), Yoshida and Muramatsu (1994) |
| 137 チチアワタケ     | Suillus granulatus                               | Germany        | 1987-1990       | Ratioed to B. badiusc: 0.070.26; 595-1080 Bq/kg fw   | TF: 0.05-0.53; Mean: 0.29 | Kammerer et al. (1994)   |
| 137 キシメジ属の一種   | Tricholoma album                                 | United Kingdom | 1987, 1990      | Below detection                                      | No data                   | Watling et al. (1993)  |
| 137 キシメジ属の一種   | Tricholoma atrosquamosum                         | United Kingdom | 1987, 1990      | 732 Bq/kg  | No data                   | Watling et al. (1993)  |
| 137 ツバササクレキシメジ | Tricholoma cingulatum                            | United Kingdom | 1987, 1990      | 247.2-3500 Bq/kg                                     | No data                   | Watling et al. (1993)  |
| 137 キシメジ属の一種   | Tricholoma flavovirens                           | Japan          | Sept.-Dec. 1990 | 3110 Bq/kg   | No data                   | Yoshida et al. (1994), Yoshida and Muramatsu (1994)                          |
| 134 キシメジ属の一種   | Tricholoma flavovirens                           | Japan          | Sept.-Dec. 1990 | <65 Bq/kg  | No data                   | Yoshida et al. (1994), Yoshida and Muramatsu (1994)                          |
| 137 キシメジ属の一種   | Tricholoma pessandatum                           | Spain          | Not known       | 122 Bq/kg  | No data                   | Baeza et al. (2004)  |
| 137 キシメジ属の一種   | Tricholoma pessandatum                           | Japan          | Sept.-Dec. 1990 | 424 Bq/kg  | No data                   | Yoshida et al. (1994), Yoshida and Muramatsu (1994)                          |
| 134 キシメジ属の一種   | Tricholoma pessandatum                           | Japan          | Sept.-Dec. 1990 | <11 Bq/kg  | No data                   | Yoshida et al. (1994), Yoshida and Muramatsu (1994)                          |
| 137 クマシメジ      | Tricholoma terreum                               | Spain          | Not known       | 49 Bq/kg   | No data                   | Baeza et al. (2004)  |
| 137 クマシメジ      | Tricholoma terreum                               | Japan          | Sept.-Dec. 1990 | 602 Bq/kg  | No data                   | Yoshida et al. (1994), Yoshida and Muramatsu (1994)                          |
| 134 クマシメジ      | Tricholoma terreum                               | Japan          | Sept.-Dec. 1990 | <21 Bq/kg  | No data                   | Yoshida et al. (1994), Yoshida and Muramatsu (1994)                          |
| 137 ニガイグチ      | Tylopilus felleus                                | Germany        | 1987-1990       | Ratioed to B. badiusc: 0.35-1.57                     | No data                   | Kammerer et al. (1994)   |
| 137 ニガイグチ      | Tylopilus felleus                                | Austria        | 1987-1989       | 4001-8000 Bq/kg ww                                   | TF: 2.01-4.0              | Heinrich (1993)  |

腐生性キノコ類中における放射性セシウム

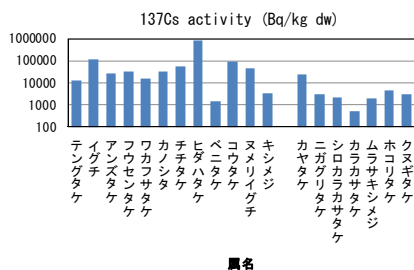
| セシウム同位体      | 学名                      | 国              | 調査日        | セシウムレベルもしくは比率 | 移行係数が凝集移行係数 (Tag) | 引用文献  |
|--------------|-------------------------|----------------|------------|---------------|-------------------|---|
| 137 ツチナメコ    | Agrocybe erebia         | Japan          | 1987, 1990 | 1520 Bq/kg    | No data           | Muramatsu et al. (1991), Yoshida and Muramatsu (1994) |
| 134 ツチナメコ    | Agrocybe erebia         | Japan          | 1987, 1990 | 97 Bq/kg      | No data           | Muramatsu et al. (1991), Yoshida and Muramatsu (1994) |
| 137 ゴムタケ     | Bulgaria inquinans      | United Kingdom | 1987, 1990 | 390 Bq/kg     | No data           | Watling et al. (1993)                                 |
| 137 ノウタケ属の一種 | Calvatia excipuliformis | United Kingdom | 1987, 1990 | 271.6 Bq/kg   | No data           | Watling et al. (1993)                                 |

|                |   |                |                  |   |  |   |                       |
|----------------|---|----------------|------------------|---|--|---|-----------------------|
| 137 ジョウゴタケ     | Clitocybe infundibuliformis or C. gibba | Italy          | Aug. 1986        | 12,030-24,532 Bq/kg                               | Tag: 0.300-0.613                                   | Battiston et al. (1989)                             |                       |
| 137 ジョウゴタケ     | Clitocybe infundibuliformis or C. gibba | Italy          | Aug. 1986        | 1427-3303 Bq/kg                                   | No data  | Battiston et al. (1989)                             |                       |
| 134 ジョウゴタケ     | Clitocybe infundibuliformis or C. gibba | Italy          | Aug. 1986        | 5581-11,331 Bq/kg                                 | Tag: 0.465-0.567                                   | Battiston et al. (1989)                             |                       |
| 137 ケコガサタケ属の一種 | Galerina mutabilis                      | United Kingdom | 1987, 1990       | 31.9-261.6 Bq/kg                                  | No data  | Watling et al. (1993)                               |                       |
| 137 ニガクリタケ     | Hypoholoma fasciculare                  | United Kingdom | Summer 1996      | 2317-2622 Bq/kg                                   | Tag: 0.09-0.1                                      | Toal et al. (2002)                                  |                       |
| 137 ニガクリタケ     | Hypoholoma fasciculare                  | United Kingdom | Autumn 1996      | 140-3064 Bq/kg                                    | Tag: 0.0054-0.12                                   | Toal et al. (2002)                                  |                       |
| 137 アシボソクリタケ   | Hypoholoma marginatum                   | United Kingdom | Autumn 1996      | 781-1046 Bq/kg                                    | Tag: 0.02-0.04                                     | Toal et al. (2002)                                  |                       |
| 137 シロカラカサタケ   | Lepiota (or Leucoagaricus) naucina      | Italy          | 1986             | 2279 Bq/kg  | Tag: 0.114   | Battiston et al. (1989)                             |                       |
| 137 シロカラカサタケ   | Lepiota (or Leucoagaricus) naucina      | Italy          | 1986             | 368 Bq/kg   | No data  | Battiston et al. (1989)                             |                       |
| 134 シロカラカサタケ   | Lepiota (or Leucoagaricus) naucina      | Italy          | 1986             | 1008 Bq/kg  | Tag: 0.101   | Battiston et al. (1989)                             |                       |
| 137 カラカサタケ     | (Macro) Lepiota procera                 | Italy          | 1986             | 221-547 Bq/kg                                     | Tag: 0.022-0.055                                   | Battiston et al. (1989)                             |                       |
| 137 カラカサタケ     | (Macro) Lepiota procera                 | Italy          | 1986             | 53 Bq/kg  | No data  | Battiston et al. (1989)                             |                       |
| 134 カラカサタケ     | (Macro) Lepiota procera                 | Italy          | 1986             | 116-263 Bq/kg                                     | Tag: 0.019-0.053                                   | Battiston et al. (1989)                             |                       |
| 137 カラカサタケ     | (Macro) Lepiota procera                 | United Kingdom | Autumn 1996      | 14 Bq/kg  | Tag: 0.00056                                       | Toal et al. (2002)                                  |                       |
| 137 カラカサタケ     | (Macro) Lepiota procera                 | United Kingdom | 1994-1996        | 0.6-31.1 Bq 137Cs/kg; Mean: 6.4 Bq 137Cs/kg       | Ratioed to B. badiusc. 0.01-0.11; 13-2110 Bq/kg fw | TF: 1.26; Tag: 4.83                                 | Barnett et al. (1999) |
| 137 ハタシメジ      | Lepista (or Clitocybe) irina            | Germany        | 1987-1990        | Ratioed to B. badiusc. 0.02-0.07; 32-285 Bq/kg fw | TF: 0.003-2.2; Mean: 0.84                          | Kammerer et al. (1994)                              |                       |
| 137 ハタシメジ      | Lepista (or Clitocybe) irina            | Germany        | 1987-1990        |   | TF: 0.2-0.33; Mean: 0.14                           | Kammerer et al. (1994)                              |                       |
| 137 ムラサキシメジ    | Lepista nuda                            | Japan          | Sept.-Dec. 1990  | Up to 1990 Bq/kg                                  | No data  | Yoshida et al. (1994), Yoshida and Muramatsu (1994) |                       |
| 134 ムラサキシメジ    | Lepista nuda                            | Japan          | Sept.-Dec. 1990  | 13.1 Bq/kg  | No data  | Yoshida et al. (1994), Yoshida and Muramatsu (1994) |                       |
| 137 ムラサキシメジ    | Lepista nuda                            | United Kingdom | 1994-1996        | 2.6-20.4 Bq 137Cs/kg; Mean: 6.2 Bq 137Cs/kg       | TF: 1.4; Tag: 8.13                                 | Barnett et al. (1999)                               |                       |
| 137 ホコリタケ      | Lycoperdon perlatum                     | Yugoslavia     | 1986             | 300-310 Bq/kg                                     | No data  | Byrne (1988)  |                       |
| 134 ホコリタケ      | Lycoperdon perlatum                     | Yugoslavia     | 1986             | 130-140 Bq/kg                                     | No data  | Byrne (1988)  |                       |
| 137 ホコリタケ      | Lycoperdon perlatum                     | United Kingdom | 1994-1996        | 3.2-19.6 Bq 137Cs/kg; Mean: 8.2 Bq 137Cs/kg       | No provided  | Barnett et al. (1999)                               |                       |
| 137 タヌキノチャブクロ  | Lycoperdon pyriforme                    | United Kingdom | Autumn 1996      | 2481-4655 Bq/kg                                   | Tag: 0.12  | Toal et al. (2002)                                  |                       |
| 137 クヌギタケ      | Mycena galericulata                     | United Kingdom | Autumn 1996      | 1320 Bq/kg  | Tag: 0.12  | Toal et al. (2002)                                  |                       |
| 137 クヌギタケ      | Mycena galericulata                     | United Kingdom | Autumn 1996      | Mean: 3213 Bq/kg                                  | Tag: 0.096-0.18                                    | Toal et al. (2002)                                  |                       |
| 137 クヌギタケ      | Mycena galericulata                     | United Kingdom | Winter 1996-1997 | 2984 Bq/kg  | Tag: 0.21  | Toal et al. (2002)                                  |                       |
| 137 クリタケ       | Naematoloma sublateritium               | Japan          | Sept.-Dec. 1990  | Up to 151 Bq/kg                                   | No data  | Yoshida et al. (1994), Yoshida and Muramatsu (1994) |                       |
| 134 クリタケ       | Naematoloma sublateritium               | Japan          | Sept.-Dec. 1990  | <6 Bq/kg  | No data  | Yoshida et al. (1994), Yoshida and Muramatsu (1994) |                       |
| 137 ムキタケ       | Panellus serotinus                      | Japan          | Sept.-Dec. 1990  | Up to 462 Bq/kg                                   | No data  | Yoshida et al. (1994), Yoshida and Muramatsu (1994) |                       |
| 134 ムキタケ       | Panellus serotinus                      | Japan          | Sept.-Dec. 1990  | <7 Bq/kg  | No data  | Yoshida et al. (1994), Yoshida and Muramatsu (1994) |                       |
| 137 ナメコ        | Pholiota nameko                         | Japan          | Sept.-Dec. 1990  | 50-288 Bq/kg                                      | No data  | Yoshida et al. (1994), Yoshida and Muramatsu (1994) |                       |
| 134 ナメコ        | Pholiota nameko                         | Japan          | Sept.-Dec. 1990  | <6 Bq/kg  | No data  | Yoshida et al. (1994), Yoshida and Muramatsu (1994) |                       |

概要

| セシウム同位体 | 学名                  | 国           | 調査日         | 調査細目と他の観察 | セシウムレベルもしくは比率                     | 引用文献                                |
|---------|---------------------|-------------|-------------|-----------|-----------------------------------|-------------------------------------|
| 133     | イグチ, キツネタケ, アンズタケ   | Czech       | Late 1990s, | キノコ       | No data provided                  | As cited in Randa and Kucera (2004) |
|         | ショウゲンジ, チチタケ, ニガイグチ | Republic    | Early 2000  |           |                                   |                                     |
| 137     | 担子菌類全般              | Japan       | 1990        | 全部位       | 2-1630 Bq/kg; Mean: 483 Bq/kg     | Yoshida et al. (1994)               |
| 137     | 担子菌類全般              | Japan       | 1989        | 全部位       | 3-152 Bq/kg; Mean: 120 Bq/kg      | Yoshida et al. (1994)               |
| 137     | 食用キノコ全般             | Former USSR | 1990        | 可食部分      | 609 Bq/kg fw to 20,800 Bq/kg ww   | Cooper et al. (1992)                |
| 137     | 食用キノコ全般             | Former USSR | 1990        | 可食部分      | 1320 Bq/kg fw                     | Cooper et al. (1992)                |
| 137     | 食用キノコ全般             | Former USSR | 1990        | 可食部分      | 5260 Bq/kg fw to 131,000 Bq/kg dw | Cooper et al. (1992)                |

Duff & Ramsey (2008) Journal of Environmental Radioactivity 99: 912-932より  
a: セシウム(Cs)レベルは時に記載がなければ乾燥重量 (DW), fw (新鮮重), ww (湿重)を示す  
133Csは安定同位体であり, 137Csと134Csが放射性である  
TF (移行係 生育基質(土壌表層や培養土など)に対するきのこの137Cs濃度の割合)  
Tagg (土壌面積(m<sup>2</sup>)あたりの放射総量に対する子実体中の放射性濃度を示す移行係数)



属名

図. 異なる属群における放射性セシウムの蓄積