**Table 1. Occupational sources of hypersensitivity pneumonitis and causative antigens and haptens**

| **Sources** | **Antigen/hapten** | **Disease** | **Reference** |
| --- | --- | --- | --- |
| **Peer reviewed** | **Non-peer reviewed /conference abstracts** |
| **1. Agricultural work** |
| Chicory leaves Mould | *Fusarium* sp. | Chicory worker's lung | Colin et al., 2007 |   |
| Citrus farm | *Aspergillus* species*Penicillium* species |   |   | Yasui et al., 2010 |
| Corn  | Corn protein |   | Martin-Garcia et al., 2003 |   |
| *Aspergillus* species*Aspergillus flavus* | Farmer’s lung | Patterson et al., 1974, Moreno-Ancillo et al., 2004 |   |
| Cotton work | ? |   |  | Khomenko and Ozerova, 1996 |
| Fruit mould | ? |   |   | Mder et al., 1988 |
| Grain dust | *Arthrobacter globiformis Alcaligenes faecalisBrevibacterium linensErwinia herbicolaPantoea agglomeransStaphylococcus epidermidis* |   | Dutkiewicz et al., 1985, Milanowski et al., 1998 |   |
| Grape mould | *Botrytis cinerea* | Winegrower’s lungSpäetlase lung | Richerson et al., 1989\* |   |
| Hay/straw dust | *Saccharopolyspora rectivirgulaThermoactinomyces vulgarisAbsidia corymbiferaAlternaria**Aspergillus* species*Aureobasidium pullulansCandida* species*Candida albicans**Cryptostroma corticaeEurotium amstelodamiMucor* species*Saccharomyces cerevisiaeWallemia sebi* | Farmer’s lung | Campbell, 1932, Debeljak and Sorli, 1975, Ebner et al., 1981, Frank, 1982, MacLeod and Brown, 1982, Chasse et al., 1986, Rask-Andersen, 1989, Marx Jr et al., 1990, Kokkarinen et al., 1992, Ando et al., 1994, Yoshida et al., 1995, Reboux et al., 2001, Ferri et al., 2003, Thomas et al., 2005, Hanak et al., 2007, Fenclova et al., 2009, Roussel et al., 2010, Koschel et al., 2011, Deschenes et al., 2012, Koschel et al., 2012, Ricco et al., 2019, Tjalvin et al., 2020 | Welle et al., 1978, Barzo et al., 1989, Catenacci et al., 1990, Moura and Pinelo, 2011, Satoh et al., 2011, Brooks et al., 2017 |
| Malt dust  | Malt protein |  | Miedinger et al., 2009 |   |
| *Aspergillus* species*Aspergillus clavatusAspergillius fumigatus* | Malt-worker’s lung  | Riddle et al., 1968, Channell et al., 1969, Grant et al., 1976, Ellis and Friend, 1981, Thomas, 1995, Fenclova et al., 2009 |   |
| Mushroom production/compost | Thermophilic actinomycetes*Thermoactinomyces vulgaris**Aspergillus glaucusPenicillium citrinumTrichosporon cutaneum* | Mushroom-worker’s lungMushroom grower's disease | Yoshida et al., 1990, Sanderson et al., 1992, Hoy et al., 2007, Yoshikawa et al., 2007 | Brun et al., 1979, Marland et al., 1982, Kishimoto et al., 1993,  |
| Mushroom spores    | Common mushroom (*Agaricus bisporus*)Eryngi (*Pleurotus Eryngii*)Maitake (*Grifola frondosa*) Nameko (*Pholiota nameko*)Oyster mushroom (*Pleurotus osteatus*)Shiitake (*Lentinus edodes*)Bunashimeji (*Hypsizigus marmoreus*)Shimeji (*Tricholoma conglobatum*)*Lyophyllum karst* | Mushroom-worker’s lung | Nakazawa and Tochigi, 1989, Kamm et al., 1991, Ishii et al., 1994, Yoshida et al., 1995, Inage et al., 1996, Murakami et al., 1997, Mori et al., 1998, Akizuki et al., 1999, Tanaka et al., 2000, Suzuki et al., 2001, Tanaka et al., 2001, Saikai et al., 2002, Tanaka et al., 2004, Taniguchi et al., 2004, Tsushima et al., 2005, Tsushima et al., 2006, Hoy et al., 2007, Ampere et al., 2012, Loverdos et al., 2015, Walters et al., 2019 |  Konishi et al., 1994, Fujiwara et al., 2000, Tsushima et al., 2000a, Tsushima et al., 2000b, , Miyazaki et al., 2003, Kai et al., 2008, Takaku et al., 2009, , Kalaycioglu and Bicakoglu, 2013, Taha Bekci et al., 2014,  |
| *Lyophyllum aggregatum**Strophariaceae* |   |   | Tsushima et al., 2000a, Tsushima et al., 2000b |
| Onions and potatoes | *Saccharopolyspora rectivirgula* Thermophilic actinomycetes*Fusarium solaniPenicillium* species | Potato riddler's lung | Greene and Bannan, 1985, Merget et al., 2008 |   |
| Plants in greenhouse: vegetables, tomatoes, flowers, roses  | *Aspergillus fumigatusAspergillus glaucus**Aspergillus nigerCladosporium herbarumPenicillium* species*Sphaerotheca fuliginea* |   | Yoshida et al., 1993, Yoshida et al., 1995, De Beukelaar et al., 2015, Abreu et al., 2020 | Amano et al., 2009, Hamaguchi et al., 2009 |
| Rockwool used for rose culture | *Aspergillus niger* |   |   | Miyazaki et al., 2004 |
| Silage mould | *Saccharomyces cerevisiae* |   |   | Yamamoto et al., 2002 |
| Smut fungus | *Ustilago esculenta* |   | Yoshida et al., 1996 |   |
| Tobacco mould  | ? |  Tobacco growers' disease | Khomenko et al., 1989, Nefedov et al., 1991 |  Khomenko and Ozerova, 1996 |
| Vineyard fungicide (Bordeaux mixture) | ? | Vineyard-sprayer’s lung | Pimentel and Marques, 1969 |   |
| **2. Processing of plant matter** |
| Broom grass manufacturing | *Calluna valgaris* |   | Aydemir et al., 2015 |   |
| Coir industry | ? |   |   | Shanmugapriya et al., 2013 |
| Esparto (*Stipa tenacissima*) dust | Esparto grass protein*Aspergillus* species*Aspergillus fumigatusMucor* sp.*Penicillium frequentans* | StipatosisEspartosis | Gamboa et al., 1990, Zamarron et al., 1992, Morell et al., 1995, Hinojosa et al., 1996, Moreno-Ancillo et al., 1997, Cruz et al., 2003, Moreno-Ancillo et al., 2003, Flandes et al., 2004 |   |
| Green tea | Green tea protein |   |  Tanaka et al., 2016 | Sano et al., 2004 |
| Non-sterile argan (*Argania spinosa*) powder | ? |   | Paris et al., 2015 |   |
| Peat moss processing | *Monocillium* sp.*Penicillium citreonigrum* |   | Cormier et al., 1998 |   |
| Seaweed | *Sphaerotheca fuliginea* |   | Henderson et al., 1984 |   |
| Soybean hulls | Soybean protein |   | Zubeldia et al., 1995 |   |
| Spinach powder | Spinach protein |   | Schreiber et al., 1998 |   |
| Straw mat | Moulds |   | Yoshida et al., 1995 |   |
| Sugar cane residue | Thermophilic actinomycetes*Thermoactinomyces vulgaris**Thermoactinomyces sacchari* | Bagassosis | Torres Jimenez et al., 1979, Yoshida et al., 1995, Walters et al., 2019 |   |
| Thyme dust | *Pantoea agglomerans* |   | Mackiewicz et al., 1999 |   |
| Tiger nut | Tiger nut protein |   | Barranco et al., 1999 |   |
| Tobacco mould | *Aspergillus* sp. | Tobacco-worker’s lung | Huuskonen et al., 1984, Lander et al., 1988 |   |
| **3. Wood and woodwork** |
| Bark mulch | *Cryptostroma corticalePhanerochaete chrysosporium* |   | Shepherd et al., 1989, Lanspa and Hatton, 2014 |   |
| Cork dust  | Suberin | Suberosis | Morell et al., 2003 |   |
| *Aspergillus fumigatusMucor* species*Penicillium frequentans (Penicillium glabrum)* | Suberosis | Moral et al., 1994, Morell et al., 2003, Winck et al., 2004, Villar et al., 2009 | Neddam et al., 1998 |
| Fuel chip dust | *Aspergillus fumigatusMucor* species*Paecilomyces* species |   | Muller-Wening et al., 1999 |   |
| Maple bark | *Cryptostroma corticale* | Maple bark–stripper’s lung | Richerson et al., 1989\* |   |
| Sequoia (Redwood) dust | *Aureobasidium pullulansGraphium* | Sequoiosis | Cohen et al., 1967 |   |
| Wood dust or wood pulps | *Thermoactinomyces vulgarisAlternariaAspergillus* species*PaecilomycesPenicillium* sp*.Penicillium chrysogenum**Rhizopus icrosporesTrichoderma koningii* | Woodworker’s lungWoodman’s diseaseWood trimmer’s diseaseWood-pulp workers’ disease | Schlueter et al., 1972, Terho et al., 1980, Dykewicz et al., 1988, Halpin et al., 1994, Rask-Andersen et al., 1994, Veillette et al., 2006, Faerden et al., 2014 | Haahtela et al., 1979 |
| Wood | Cabreuva (*Myrocarpus fastigiatus*) proteinPine proteinRamin (*Gonystylus bancanus*) protein |   | Howie et al., 1976, Baur et al., 2000 |   |
| **4. Animal-related work**s |
| Animal feed | Phytase |   | Van Heemst et al., 2009 |   |
| Animal fur | Animal fur protein: fox, karakul | Furrier’s lung | Pimentel, 1970 |   |
| *Trichothecium roseum* | Furrier’s lung |   | Helbecque et al., 1991 |
| Avian droppings, blood, or feathers | Avian protein: budgerigars, canary, chicken, cockatoos, hill mynahs, pigeon, pheasant, wood bird, owls | Bird-breeder’s lungBird-fancier’s lungPheasant rearer’s lungPigeon-breeder’s lungPoultry worker’s lung | Fink et al., 1968, Ávila, 1971, Warren and Tse, 1974, Bergmann Ch, 1979, Reheda, 1994, Choy et al., 1995, Yoshida et al., 1995, Inase et al., 2004, Partridge et al., 2004, Bocchia et al., 2005, Zacharisen and Schoenwetter, 2005, Mehta et al., 2008, Holden et al., 2017, Walters et al., 2019 | Khomenko and Ozerova, 1996, Suga and Sukoh, 2002, Ishiguro et al., 2010, Barrett and Hayes, 2012, Moldovan et al., 2019 |
| Bovine heads | Bovine’s pituitary glands protein |   |   | Gala Ortiz et al., 1999 |
| Carmine (red dye) | *Coccus cactus* scale protein |   | Dietemann-Molard et al., 1991 |   |
| Clam | ? |   | Gumundsson et al., 2002 |   |
| Feather duvet manufacturing | Pigeon protein |   |   | Fujie et al., 2004  |
| Fish meal dust | Fish protein | Fishmeal-worker’s lung | Ávila, 1971 |   |
| Gerbil | Gerbil protein | Gerbil-keeper’s lung | Riario Sforza and Marinou, 2017\* |   |
| Pig serum or skin | Pig protein | Pig breeder's lung |   | Schlegel et al., 1990 |
| Rat serum or urine | Rat protein | Rodent-handler’s lung | Carroll et al., 1975 |   |
| Salmon | Salmon protein |   | Tjalvin et al., 2018 | Kirkeleit et al., 2017 |
| Silkworm larvae | Silkworm larvae protein | Sericulturist’s lung | Nakazawa and Umegae, 1990, Yoshida et al., 1995 |   |
| Shell dust  | Shell dust protein |   | Yoshida et al., 1995, |   |
| Mollusc shell:pearl-oyster, sea-snail | Oyster shell lungMollusc shell HP | Weiss and Baur, 1987, Orriols et al., 1990, Jager et al., 1991, Mitani et al., 1995, Orriols et al., 1997 |   |
| **5. Foodstuff** |   |   |   |   |
| Baker’s yeast | *Saccharomyces cerevisiae* |   | Gernhold and Sennekamp, 2010 |   |
| Cheese | *Penicillium caseiPencillium roqueforti* | Cheese-washer’s lung | Schlueter, 1973, Campbell et al., 1983, Galland et al., 1991 | Brun et al., 1979, Catenacci et al., 1990 |
| Dry sausage dust | *Aspergillus fumigatus**Penicilluim* species*Penicillium camembertii**Penicillium frequentans* | Chacinero’s lungSalami worker's lung | Reynaud et al., 1992, Marchisio et al., 1999, Rivero et al., 1999, Guillot et al., 2008, Morell et al., 2011 |   |
| Flour  | Wheat weevil protein | Miller’s lung | Lunn and Hughes, 1967 |   |
| Flour mite (*Acarus siro*)*Aspergillus fumigatus* |   | Gerfaud-Valentin et al., 2014 |   |
| Buckwheat flour | ? |   | Yoshida et al., 1995 |   |
| Paprika | *Mucor stolonifer* | Paprika-splitter’s lung | Riario Sforza and Marinou, 2017\* |   |
| Spice dust | ? |   | Shivanthan and Wijesiriwardena, 2011 |   |
| **6. Food processing** |   |   |   |   |
| Imitation cheese manufacturing | ? | Cheese Whiz lung |  |  Bringgold and Halliday, 2020 |
| Koji brewery | *Aspergillus oryzae* |   | Ishiguro et al., 2018 |   |
| Konnyaku manufacturing | Konjak flour*Hijikia fusiforme* | Konnyaku manufacturer's lung | Tajima et al., 2003 |   |
| Soy sauce brewery | *Aspergillus oryzae* |   | Tsuchiya et al., 1993, Yoshida et al., 1995 |   |
| Coffee bean dust | Coffee protein | Coffee-worker’s lung | van Toorn, 1970, Boyadzieva et al., 2014 |   |
| **7. Metals and metal products** |
| Dust in a foundry’s ceiling light | *Thermoactinomyces vulgaris* |   | Valbuena et al., 1993 |   |
| Metal-working fluid | Acinetobacter*Mycobacterium* species*Mycobacterium aviumMycobacterium chelonaeMycobacterium immunogenumOchrobactrumPseudomonas oleovorans* | Machine operator's lungMachine-worker’s lungMetal worker's lung | Zacharisen et al., 1998, Fox et al., 1999, Shelton et al., 1999, Hodgson et al., 2001, Bracker et al., 2003, O'Brien, 2003, Beckett et al., 2005, Dawkins et al., 2006, Robertson et al., 2007, Gupta and Rosenman, 2006, Tillie-Leblond et al., 2011, James et al., 2018, Bellanger et al., 2019 | Centers for Disease Control and Prevention, 1996, Centers for Disease Control and Prevention, 2002, Omura et al., 2012, James et al., 2015 |
| Water-based metal-working fluid | *Bacillus pumilusPseudomonas fluorescensPseudomonas pseudoalcaligeneRhodococcus spStaphylococcus capitasAspergillus* species*Aspergillus niger* |   | Bernstein et al., 1995, Freeman et al., 1998, Moniodis et al., 2015Zacharisen and Schoenwetter, 2005 |   |
| Metal smelting | Zinc |   | Ameille et al., 1992 |   |
| Mould preparation | Diphenylmethane diisocyanate |   | Malo and Zeiss, 1982 |   |
| Steel plant | Diphenylmethane diisocyanate |   | Walker et al., 1989 |   |
| Welding | Zinc fumes |   |   | Miyazaki et al., 2006  |
| **8. Polymers, plastics, and fibres** |
| Adhesives | Diphenylmethane diisocyanateToluene diisocyanate |   | Baur, 1995 |   |
| Cold cure adhesive | Triphenylmethane Triisocyanate |   | Buick and Todd, 1997 |   |
| Bathtub refinishing process | Toluene diisocyanate | Bathtub refinisher’s lung | Fink and Schlueter, 1978 |   |
| Elastic brick production | Diphenylmethane diisocyanate |   |  Fenclova et al., 2009 |   |
| Foam production | Isocyanates:tris(4-isocyanatophenyl)-thiophosphateDiphenylmethane diisocyanate | Chemical-worker’s lungPlastic worker’s lungEpoxy-worker’s lung | Baur, 1995 |   |
| Glues | Isocyanates |   | Bartizalova, 2012 | Unsal et al., 2014 |
| Injection moulding | Diphenylmethane diisocyanate |   | Baur, 1995 |   |
| Paints/Spray paints | Hexamethylene diisocyanate Diphenylmethane diisocyanate Toluene diisocyanate | Paint-refinisher’s lungSpray painter's lung | Baur, 1995, Yoshizawa et al., 1989, Usui et al., 1992, Forst and Abraham, 1993, Oh et al., 2008, Schreiber et al., 2008 | Nozawa et al., 1989, Akimoto et al., 1992, Bando et al., 1993, Nakamura et al., 1995, Hashizume et al., 2001, Matsushima et al., 2003, Cloete, 2014 |
| Polyurethane paints | Hexamethylene diisocyanate Diphenylmethane diisocyanate Toluene diisocyanate |   | Yoshida et al., 1995, | Idezuka et al., 1991, Saak and Stresemann, 1994, Yoshimura et al., 1998 |
| Polyester powder paints | Phthalic anhydrideTriglycidyl isocyanurateTrimellitic anhydride |   | Piirila et al., 1997, Quirce et al., 2004 |   |
| Polyethylene terephthalate (PET) production | Dimethyl terephthalateTerephthalic acid |   | Sartorelli et al, 2020 |   |
| Polyurethane related industry | Diisocyanates:Diphenylmethane diisocyanateIsophane diisocyanateNaphthylene-1,5-diisocyanate |   | Zeiss et al., 1980, Bergh, 1982, Baur et al., 1984, Yoshida et al., 1995, Merget et al., 2002, Germanaud et al., 2003, Lhoumeau et al., 2012 | Hara et al., 2009 |
| Surface coating |  |  |  |  |
| Epoxy resin system chemical | ? |  Epoxy resin workers | Hines et al., 2015 |   |
| HDI-based hardener | Hexamethylene diisocyanate (HDI) |   | Bieler et al., 2011 |   |
| Synthetic fibres | ? |   | Pimentel et al., 1975 |   |
| **9. Other manufacturing** |   |   |   |   |
| Aerospace industry | Acid anhydrides |   | Quirce et al., 2016\* |   |
| Automotive industry | Naphthylene-1,5-diisocyanate |   | Baur et al., 2001 |   |
| Ceramic industry | Zirconium |   | Liippo et al., 1993 |   |
| Detergent industry | *Bacillus subtilis* enzymes (subtilisin) | Detergent-worker’s lung | Tripathi and Grammer, 2001, Schulte et al., 2008, Benzarti Mezni et al., 2010 |   |
| Nuclear technology plant | Zirconium (welding fumes) |   |   | Schneider et al., 1994, |
| Pharmaceutical industry | Penicillin |   | De Hoyos et al., 1993 |   |
| Shoe-making process | ? | Shoemaker’s EAA |   | Poliakova, 1992 |
| Yacht manufacturing | Dimethyl phthalateStyrene | Yacht-maker's lung | Volkman et al., 2006 |   |
| **10. Miscellaneous chemicals and synthetic substances** |
| Colophony flux-cored solder | Colophony fumes |   | Maria et al., 1992 |   |
| Coolants |  |  |  |  |
| Diode-laser coolants | 1,1,1,2-tetrafluoroethane (HFC134a) |   | Ishiguro et al., 2007 |   |
| Water-based coolants | *Aspergillus* species |   | Zacharisen and Schoenwetter, 2005 |   |
| Deterzyme  | Protolytic enzymes amylases of *Aspergillus oryzae* |   | Gueland et al., 1993 |   |
| **11. Work with aerosolized water**  |   |   |   |   |
| Air conditioners, cooling water | *Cytophaga endotoxinThermoactinomyces vulgarisAspergillus* species*Aspergillus fumigatusAureobasidium pullulansCladosporium cladosporiodesPenicilliumRhizopus* speciesSlime mould | Office worker’s lungAir conditioner’s lung | Friend et al., 1977, Arnow et al., 1978, Storms, 1978, Bernstein et al., 1983, Reed et al., 1983, Hodgson et al., 1987, Woodard et al., 1988, O'Connell et al., 1995, Yoshida et al., 1995, Nordness et al., 2003, Chiba et al., 2009, Magnavita, 2013, D'Souza and Donato, 2017, Walters et al., 2019 |   |
| Humidifiers | *Aspergillus fumigatusCandida* species*Cephalosporium acremoniumPenicillium* species*Sporothrix schenckii*Amoebas | Humidifier lung | Van Assendelft et al., 1979, Ganier et al., 1980, Solley and Hyatt, 1980, Gerber et al., 1981, Robertson et al., 1987, Yoshida et al., 1995, Pal et al., 1997, Walters et al., 2019 | Sakurai et al., 2001 |
| Spas and hot tubs | *Mycobacterium avium* complex | Hot tub lung | Moraga-McHaley et al., 2013, Rudrappa and Kokatnur, 2017 |   |
| Vaporzone | *Pseudomonas* sp. |   | Soumagne et al., 2016 |   |
| **12. Service work** |   |   |   |   |
| Archiving | Moulds |   | Walters et al., 2019 |   |
| Banknotes | ? | Hard cash HP | Kupeli et al., 2010 |   |
| Damp building (office, school) | *Aspergillus fumigatus* | Office-related HP | Thorn et al., 1996, Weltermann et al., 1998 |  |
| Degreasing agents (computer repairing work) | Trichloroethylene |   | Kim et al., 2014 |   |
| Dental work | Acrylate compoundsMethyl methacrylate |   | Scherpereel et al., 2004 |   |
| Dry cleaning process | Tetrachloroethylene |   | Tanios et al., 2004 |   |
| Fluorocarbon waterproofing aerosol spray (used in furniture retail) | Fluorocarbon |   | Walters et al., 2017 |   |
| Frankincense (sambrani) fumes | ? |   |   | Shanmugapriya et al., 2013 |
| Hair bleach | Persulphate salts |   |   | Svanes et al., 2014 |
| Hairdressing work | *Trichosporon cutaneum* |   | Kawane and Soejima, 1987 |   |
| Human nail dust | ? |   |   | Sharma et al., 2013 |
| Human skin and nails | *Aspergillus fumigatus**Candida albicansCandida glabrataPenicillium brevicompactum* | Chiropody alveolitis | Lingenfelser and Sennekamp, 2010 |   |
| Insecticides (from freight) | Zetacypermethrin | Insecticide lung |   | Nahata and Essen, 2013 |
| Laundry work | Moulds |   | Yoshida et al., 1995 |   |
| Medical office | Indoor mould |   | Mayer et al., 1990 |   |
| Pet groomer spray | Pyrethrin | Pet Groomer's Lung | Pu et al., 2017 |   |
| Sodium diazobenzenesulphate (Pauli's reagent) in medical laboratory | Sodium diazobenzenesulphate  | Pauli’s reagent lung | Evans and Seaton, 1979 |   |
| **13. Waste and sewage** |   |   |   |   |
| Compost | Thermophilic actinomycetes*Thermoactinomyces vulgarisStreptomyces albusAspergilllus* sp. | Composter’s lung | Kagen et al., 1981, Vincken and Roels, 1984, Bunger et al., 2007, Lal et al., 2018 |   |
| Household waste or recycling  | *Actinomycetes**Aspergillus fumigatus*  |   | Hagemeyer et al., 2013, Walters et al., 2019 |   |
| Organic waste | *Aspergillus fumigatusPenicillium chrysogenum* |   | Preisser and Harth, 2017 |   |
| **14. Wind instruments** |   |   |   |   |
| Bagpipes | ?Microorganisms found in bagpipe:*Exophiala dermatitidis**Fusarium oxysporum**Paecilomyces variotiiPenicillium* species*Rhodotorula mucilaginosaTrichosporon mucoides*Pink yeast |   | King et al., 2017 |   |
| Saxophone  | *Phoma* sp.*Ulocladium botrytis* | Sax lung | Metzger et al., 2010 |   |
| Trombone | ?Microorganisms found in trombone:*Escherichia coli**Mycobacterium chelonae-abscessusStenotrophomonas maltophilia**Fusarium* sp.  | Trombone player's lung | Metersky et al., 2010 |   |

\* review article

? Not identified or reported

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