



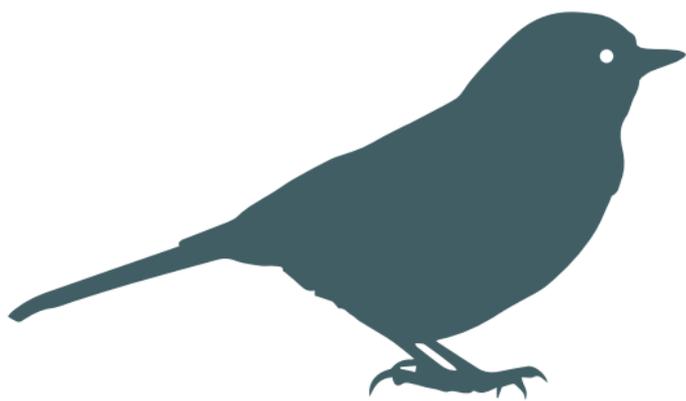
species and groups

## Species

blue tit	2
bumble bee	4
cabbage white butterfly	6
cat	8
cinnabar moth	10
common frog	12
dandelion	14
earthworm	16
fox	18
garden snail	20
harvestman spider	22
lime tree	24
nettle	26
parakeet	28
pipistrelle bat	30
rat	32
red squirrel	34
tawny owl	36
tomato	38

## Groups

arthropods	40
bacteria	42
birds & mammals	44
fungi	46
nematodes	48
organic matter	50
plants	52
protozoa	54



# blue tit

## What I eat

Insects, caterpillars, seeds and nuts

## Where I live

Woodland, farmland, urban and suburban

## Where and when you can see me

I am really common in woodland, hedgerows, parks and gardens. You can see me across the whole of the UK all year round but I am pretty busy in spring and summer nesting and feeding chicks.



# **bumble bee**

## **What I eat**

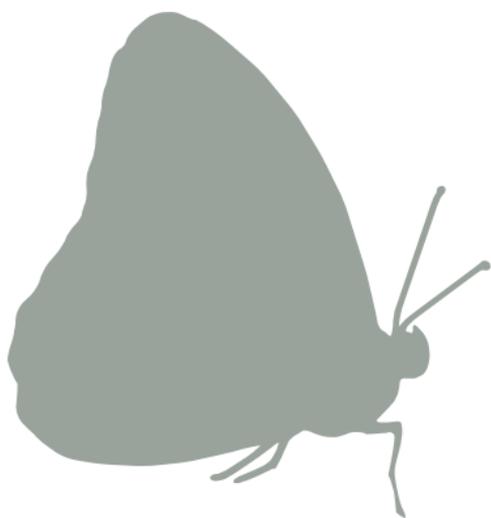
Nectar and pollen

## **How I live**

I'm a very social insect and live with a colony of up to 200 workers. Our queen hibernates underground during the winter and emerges in the spring to find a suitable nest like an old mouse hole.

## **Where and when you can see me**

You can see me throughout the garden, collecting pollen and nectar in lots of flowers and blossoms. I like heading to the local park and woods where there are orchards and meadows. Some of us come out as early as February although it can be a bit chilly. We usually come out when it warms up in spring and will hibernate again in early autumn.



# cabbage white butterfly

## What I eat

As a butterfly I drink nectar from flowers. When I am a caterpillar I eat brassicas such as cabbage, kale, and brussel sprouts, and nasturtiums.

## Where I live

Eaves, fence/wall, flower border, hanging basket, hedge, herb garden, meadow area, patio, shrub, window box, woodland area

## Where and when you can see me

You can see me throughout the garden. When I am a caterpillar I enjoy my time in vegetable pots from June to September. When I am a butterfly you can see me April to October laying my eggs on the vegetables.



# cat

## **What I eat**

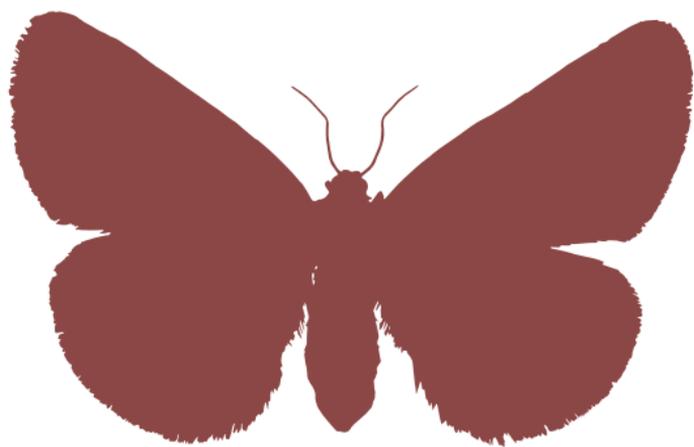
I eat all types of meat

## **Where I live**

I live with humans on all continents on Earth except Antarctica. I can also be feral, living in forests, grasslands, tundra, coastal areas, agricultural land, scrublands, urban areas, and wetlands.

## **Where and when you can see me**

You can often see me sleeping, as I like between 12 and 16 hours of sleep a day. I'm active during the night and day. I'll spend most of my time near my home, but can also range many hundreds of meters from home.



# cinnabar moth

## **What I eat**

As caterpillar I feed on the leaves and flowers of Common Ragwort (*Senecio jacobaea*).

## **Where I live**

My favourite place to live is rabbit-grazed grassland, mature sand-dunes and heathland, but I can also be found in waste ground, railway banks, gardens and woodland.

## **Where and when you can see me**

I'm instantly recognisable from the black and red of my hindwings and the markings on the forewings I love flying in the sunshine, but you can also see me flying after dark.



# common frog

## What I eat

I eat insects that I catch with my long, sticky tongue, and also snails, slugs and worms.

As tadpole, I eat algae, and then become carnivorous.

## Where I live

Meadow areas, ponds and lakes

## Where and when you can see me

Throughout the year by the pond, lakes, canals, meadows and woodland.



# dandelion

## **What I eat**

Water, soil, sun

## **Who likes me**

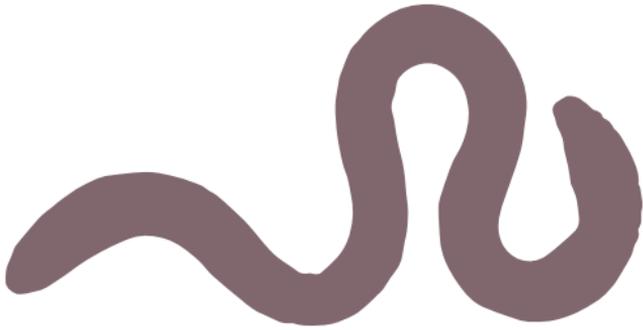
Pollinators!

## **Where I live**

Gardens, woodland, farmland

## **Where and when you can see me**

I flower in May to October and fruit in April to June. I can survive for over a decade if undisturbed. I spread my seeds over 500 metres to find new places for my offspring to live.



# earthworm

## **What I eat**

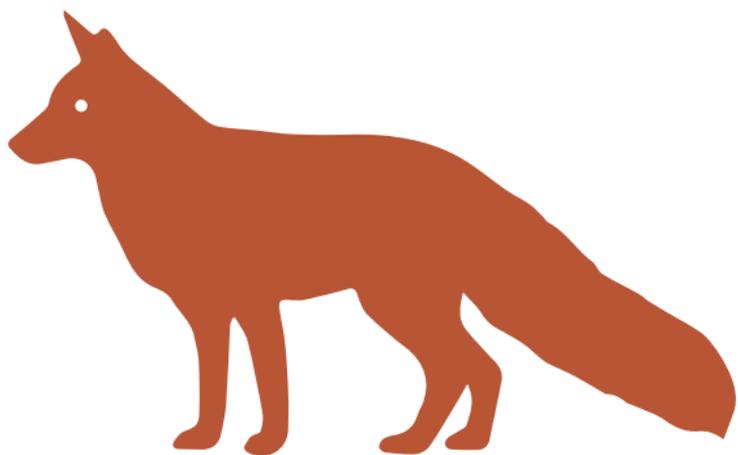
Decaying organic matter

## **Where I live**

Flower border, herb garden, lawn/grassy area

## **Where and when you can see me**

You can see me all year round. I'm usually deep in the soil digging. Sometimes I'm out at night in the damp weather on the surface of the lawn and in garden borders.



# fox

## **What I eat**

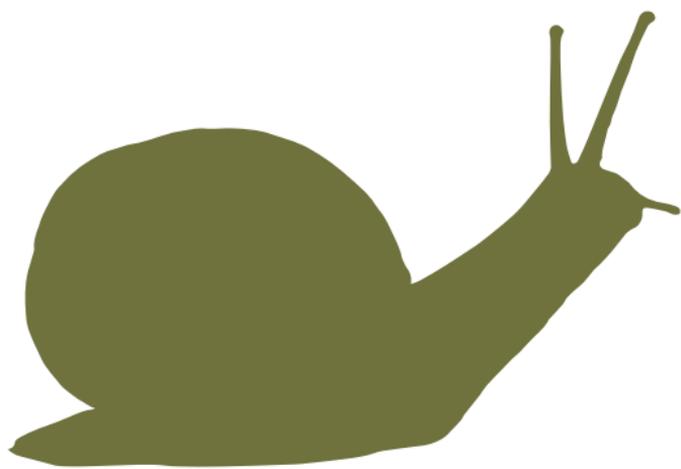
I like to scavenge food and will eat almost anything I find; insects, earthworms, fruit, berries, birds, small mammals, carrion and scraps left by humans.

## **Where I live**

Hedge, meadow area, shed, woodland area

## **Where and when you can see me**

You will often see me throughout the garden or streets looking for food at dusk and at night. Look out for my tracks, droppings, overturned bins and chewed remains of food. These are my calling cards. I also like to mark my territory with greyish droppings in prominent places so you can see what's mine.



# **garden snail**

## **What I eat**

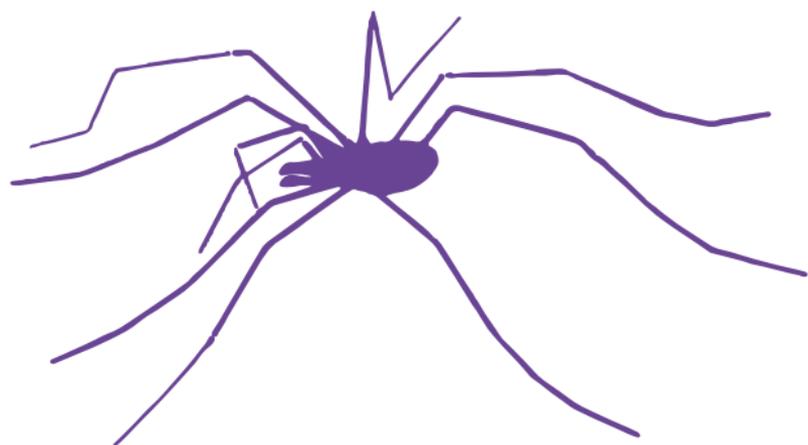
I love to eat leaves, algae, lichens, fungi and rotting plants.

## **Where I live**

You can see me in gardens, parks and woods but I mostly come out at night.

## **Where and when you can see me**

You can usually see me at night in spring, summer and autumn and I get pretty lively in warm, damp weather. If it's too dry I have to hide in my shell which I seal off to protect myself. If things are really dry or dangerous I will stay inside for several months. I don't like the cold weather and tend to hibernate in winter.



# harvestman spider

## What I eat

Small insects, snails and worms

## Where I live

In gardens and houses. My favourite places are logpiles, flower borders, sheds and hedges

## Where and when you can see me

You can see me throughout the autumn. You won't find me in webs, because I don't have silk glands and I don't spin webs to catch my prey.

Instead, I use hooks on the ends of my legs. I defend myself by secreting a foul-smelling fluid and if caught, I'll shed a leg to escape.



# lime tree

## What I eat

Water, rich soil, sun

## I'm eaten by

I am farmed by ants for my sap but they do not harm or damage me.

## Where I live

Forest, urban and suburban, woodland, garden

## Where and when you can see me

You see us all year around.

Some of us live for a long time, up to 2000 years.



# nettle

## **What I eat**

Water, soil, sun

## **Who likes me**

I am larval food for many butterflies and moths.

## **Where I live**

I am often found as an understory plant in wet places, but you can also find me in meadows.

I spread through my seeds and rhizomes and can survive and re-establish after a fire.

## **When to see me**

I'm around throughout the year and flower from May to September.



# parakeet

## What I eat

Fruit, berries, nuts and seeds

## Where I live

Woodland, urban and suburban areas

## Where and when you can see me

You can see me all year round in the trees. I like it in south-east England, Kent and Surrey, calling to my friends and family.



# **pipistrelle bat**

## **What I eat**

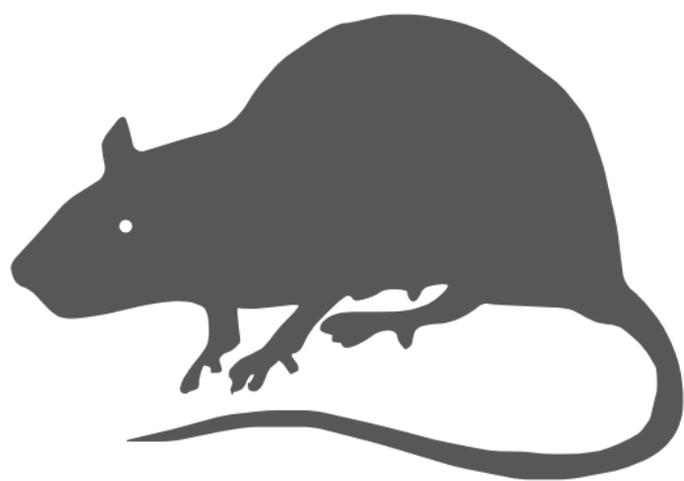
I mainly eat a wide range of small flies as well as aquatic midges and mosquitoes.

## **Where do I live**

I live in woodland, hedgerows, grassland, farmland, suburban and also urban areas.

## **Where and when you can see me**

From July to September you may see our male members defending our territories, and attracting females in 'songflights' around our roost. In winter you can see us alone or in small groups in crevices of buildings and trees, and also in bat boxes.



# rat

## **What I eat**

I prefer cereals like oats, but I'll eat anything that people eat or anything that you get rid of!

## **Where I live**

I like places where there is a lot of food and water and shelter for me and my growing family. Roof spaces, wall cavities, under floorboards, in gardens. Sewers are great for me.

## **Where and when you can see me**

I'm always around throughout the year. Wherever there are people and a good source of food, you will find me.



# red squirrel

## What I eat

I eat nuts, seeds, tree shoots and other plant matter

## Who eats me

Predators include pine marten, birds of prey, foxes and stoats

## Where I live

I live in coniferous, mixed and broadleaved woodland

## Where and when you can see me

You may spot me in autumn, when I'm busy searching for food to see me through the winter. You'll need to look up, as I spend most of my time in trees.



# tawny owl

## **What I eat**

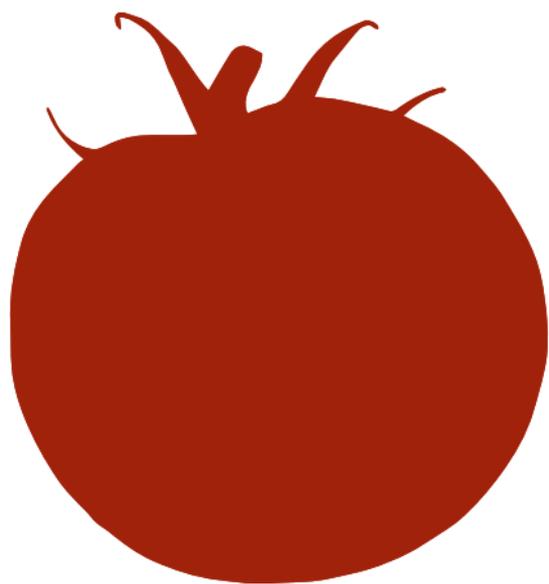
Small mammals and rodents, small birds, frogs, fish, insects and worms

## **Where I live**

In tree trunks or among ivy in woodland, farmland, and urban and suburban areas

## **Where and when you can see me**

I'm awake in the night, and while it's hard to see me, you may often hear me calling. You may see my pellets below roosting places.



# tomato

## **What I eat**

Water, minerals, sun

## **I'm eaten by**

All sorts of animals love ripe tomatoes almost as much as people, especially squirrels, rats, deer, birds and snails..

## **Where I live**

In garden, on balconies and greenhouses

## **When to see me**

Sow: Feb - April

Harvest: July - Sept



# arthropods

## **We eat/shred**

Smaller (micro) arthropods, organic matter, fungi, bacteria, plants, nematodes, algae

## **We are eaten by**

Larger (macro) arthropods, birds, mammals

## **We are eaten by**

Organic matter, tunnels which aerate soil, shredded organic matter for bacteria and fungi to eat



# **bacteria**

## **We eat/shred**

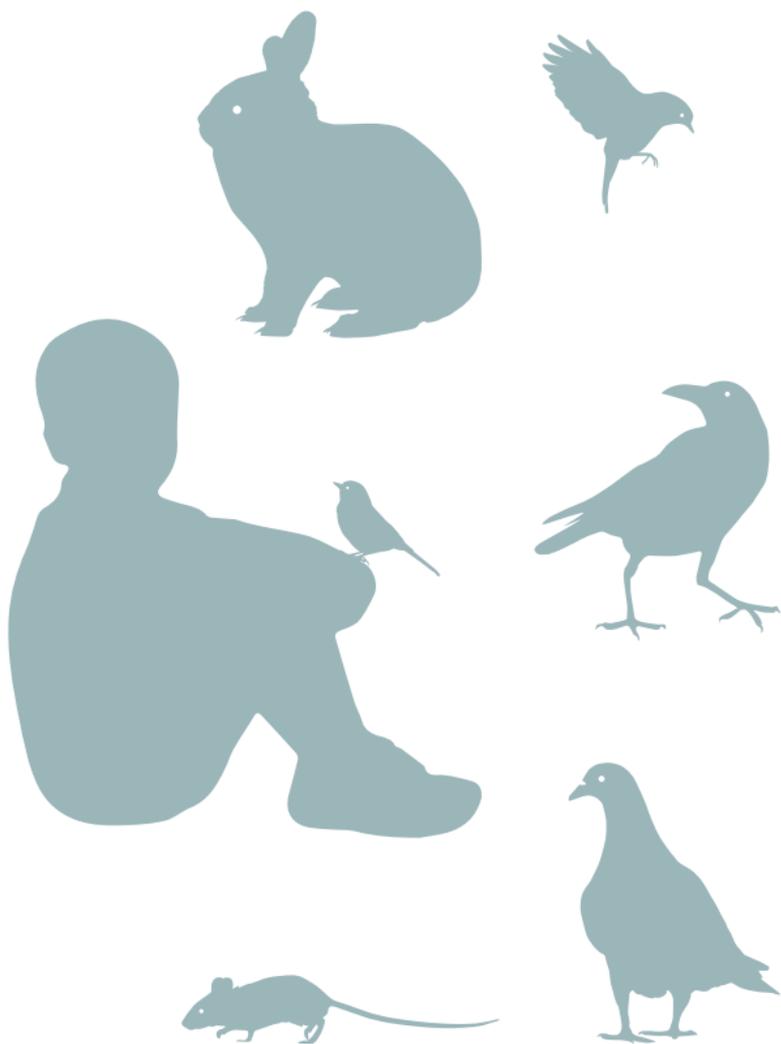
Matter, nitrogen & carbon compounds, simple sugars (exudates) made by plants

## **We are eaten by**

Earthworms, nematodes, protozoa, arthropods, mammals & birds

## **We make**

Alkalines, "earthy" soil smell antibiotics, plant available nutrients, glues, soil structure, enzymes & amino acids, CO<sub>2</sub>, Nitrate (NO<sub>3</sub>)



# birds & mammals

## **We eat/shred/mix**

Plants, arthropods, worms, bacteria, other birds  
& mammals, organic matter

## **We are eaten by**

Other birds & mammals, parasites (insects,  
bacteria, fungi, worms...)

## **We make/transport**

Manure → organic matter, transport for  
bacteria, protozoa etc. CO<sub>2</sub>,  
Dead bodies → organic matter



# fungi

## **We eat/shred**

Simple sugars from plants, decaying organic matter, nematodes, cellulose, rock

## **We are eaten by**

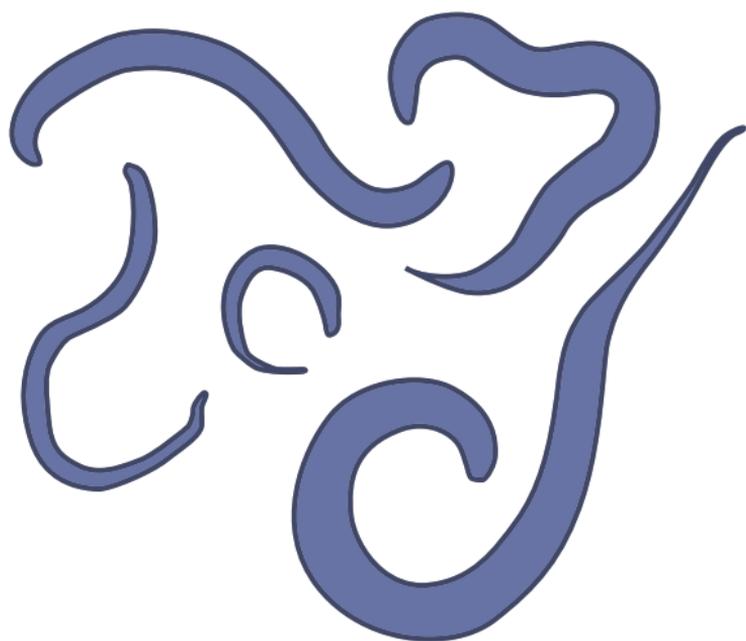
Nematodes, arthropods, mammals, protozoa

## **We make**

Minerals (from rock)

## **We transport**

Humic acid, humus, enzymes, plant available nutrients, water, ammonia ( $\text{NH}_4$ ), soil structure, mushrooms!



# nematodes

## **We eat**

Bacteria, fungi, plant roots, other nematodes, protozoa, algae, slugs, grubs, organic matter

## **We are eaten by**

Arthropods, other predatory nematodes, fungi, bacteria, insects

## **We make/transport**

Plant available "mineralised" nutrients, CO<sub>2</sub>, transport bacteria, Ammonium (NH<sub>4</sub>)



# organic matter

## **We are made from**

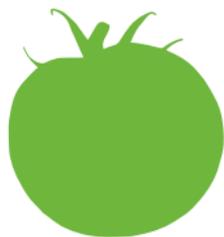
Waste, residue & metabolites from plants, animals, arthropods, worms, nematodes & bacteria, carbon, humus (humic & fulvic acid)

## **We are eaten by**

Fungi, bacteria, nematodes, arthropods, earthworms

## **We contain**

Microbiology, nutrients for plants, water, carbon



# plants

## **We eat**

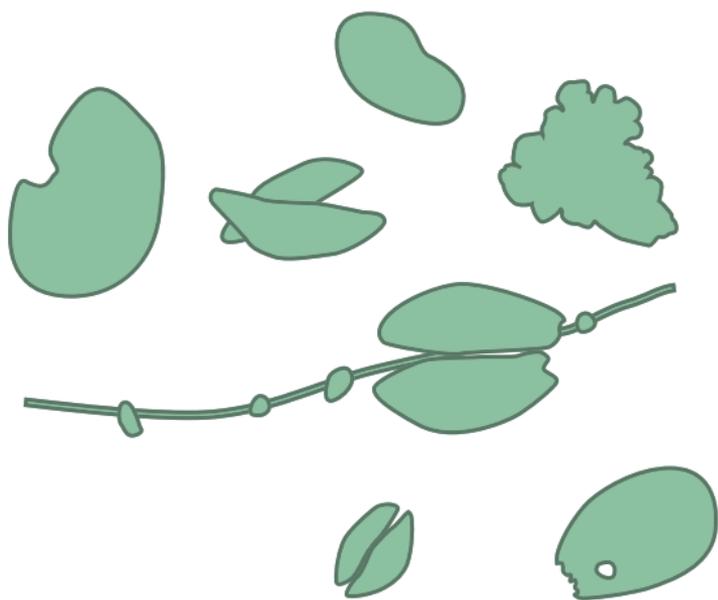
42 essential nutrients from soil  
CO<sub>2</sub> + H<sub>2</sub>O + light energy

## **We are eaten by**

Mammals, birds, nematodes, slugs, snails

## **We make**

Simple sugars (exodates), proteins, oxygen,  
organic matter



# protozoa

## **We eat**

Bacteria, fungi (occasionally), other protozoa

## **We are eaten by**

Nematodes, micro-arthropods, earthworms

## **We make**

Plant available "mineralised" nutrients, nitrogen compounds



