

Alexandra Santos









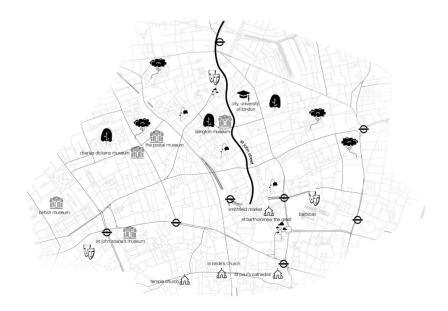
SITE LOCATION

The building is located north of the intersection between St John Street and Clerkenwell Road. It is located within the Clerkenwell Green Conservation Area (it is not listed) and is south of the London Borough of Islington, nearby the Farringdon Road underground station.

The front facade faces St. John Street, which connects Smithfield Market to Farringdon Road, The Angel, and Pentonvile Road from the north. The back facade faces Agdon Street, a secondary access road that has been increasingly redeveloped.

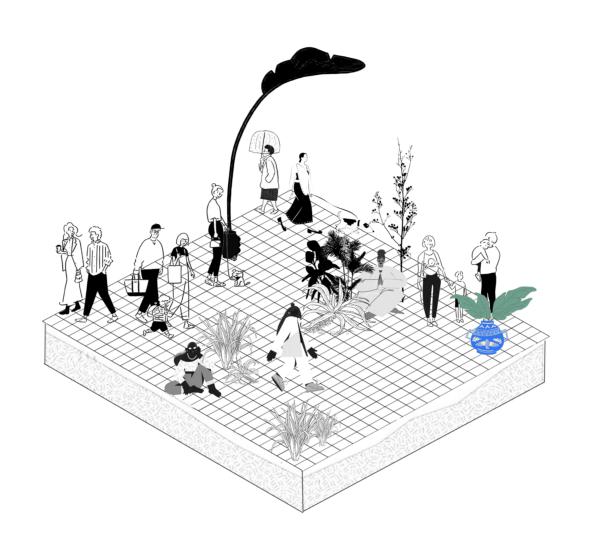
TRANSPORT

The site location offers convenient access to Liverpool Street, Highbury & Islington, and South London since it is close to both Angel and Farringdon stations. The Farringdon Station, Chancery Lane and King's Cross stations all have extensive transport connections to the National Rail, Circle, Hammersmith & City and Metropolitan lines, the Metropolitan, Northern, Victoria and Piccadilly lines.

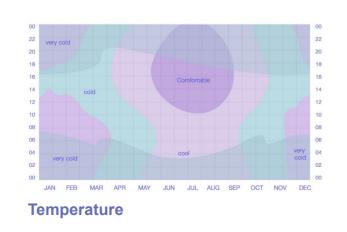


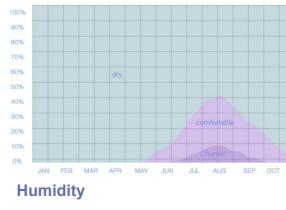
DEMOGRAPHICS

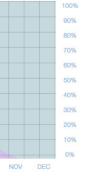
Population of Clerkenwell. These population numbers describe the population pattern by broad intervals of age and gender.



TOTAL POPULATION	AGES 0-15	Working age population	Aged 65+	White British
	1,549		1,019	5,660
13,386		10,818		
	11.6% (Islington		7.6% (Islington	49.3% (Islington
48.2% female	= 15.9%)	80.8% (Islington	= 8.9%)	=
51.8% male		= 75.3%)		47.7%)
Black	Non-White	Mixed	Asian	Other ethnic
		568	1,401	group
1,074	3,366	500	1,401	323
	,	4.9% (Islington =	12.2% (Islington	525
9.3% (Islington	29.3% (Islington	4.9% (Isington – 6.5%)	=	2.8% (Islington
=	= 31.8%)	0.070)	9.2%)	3.4%)
12.8%)	,		5.270)	5.470)







Sun

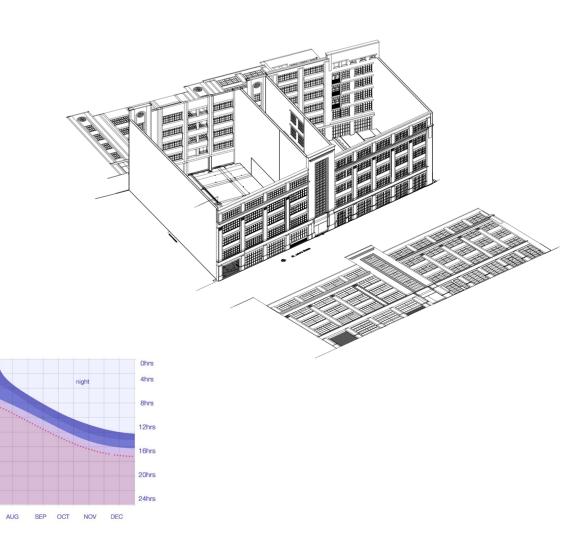


SITE HISTORY

The building was The Scholl Manufacturing Co. headquarters, a company that specialises in foot care and medical equipment. However, only one part was occupied by Scholl. The oldest structure is Nos. 190–194, built in 1910 for the United Yeast Co. The company also bought No.188 in 1919, refurbished it, and added a rooftop canteen in 1925–1926. In 1913, Nos 182–186 was constructed as Pioneer House by Peckham-based builders George Parker & Sons.

In 1930, Scholl relocated from Granville Square to the former United Yeast buildings, subsequently expanding into Pioneer House. Parkers refurbished Nos. 196–204 for Scholl in 1937–1939 based on plans created by H. Yolland Boreham of Boreham, Son & Wallace. For Nos. 190–204, Boreham created a virtually symmetrical facade with a central stair-tower with small adornments at Nos. 191-94.

In the 1990s, the building was transformed into lofts, with lift access to all floors.



CONCEPT

SKIN AND PLANTS LABORATORIES









GROW PLANTS BIODIVERSITY MICROALGAE

REGENERATE SKIN CELLS AIR

PRODUCE PRODUCTS | SYNTHETIC SKIN AIR PURIFICATION TECHNOLOGIES



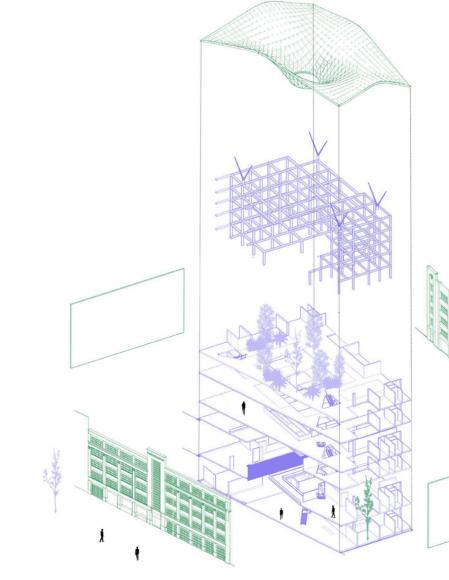
My design proposal is to convert the building into skincare laboratories focused on research for a deeper understanding of both the behaviour of skin and plants. By expanding our understanding of how the skin behaves while also gathering more scientific evidence on plant biology, enhances possibilities and more opportunities for innovation while fully embrace the potential of plants. When applied to the skin the plants components interact with skin cells and improve the health and overall appearance of the skin. Both physico-chemical investigations and botanical research have revealed a wide variety of plants with the potential to improve contemporary cosmetic products.

The project will provide functional spaces for the research, development and production of plant based products, as well as syntethic skin technologies.

Biomedical science has achieved a large progress in understanding how cells grow into functional tissues. Tissue engineering is the practical use of that knowledge to the construction and repair of organs, including skin. Artificial tissues typically consists of a scaffold, a support structure, and living cells. The scaffold can range from a collagen matrix, a structural protein, to synthetic biodegradable plastic loaded with chemicals that promote cell growth and multiplication. Tissue regeneration technology substantially improves skin repair, the success rates of skin healing from burn injury have significantly improved with the use of various skin substitutes.

By developing nearly full-thickness skin in the laboratory, the scientists anticipate they can make smooth, soft skin transplants that look natural. Currently, the skin is used to treat burns and minimise scar tissue, but scientists intend to expand further. In their laboratory-based work, researchers can make skin grafts that contain pigmentation, allowing them to produce a skin colour that matches all range of skin tones.

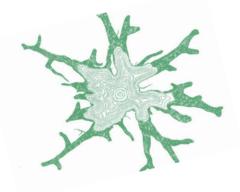
Plant stem cells, which are often employed in cosmetics, can be remarkable as they have no limits when contrasted with animal and human cells. They cannot be used as a cell component in the development of skin substitutes, but they can offer bioactive substances that can speed up the healing of injuries.

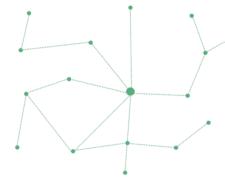


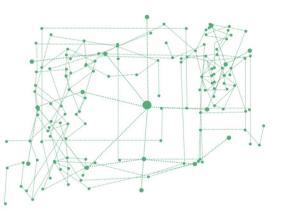


CIRCULATION

The circulation represent the roots that usually grow from the center and spread in multiple directions. Instead of organic shapes, the interior will be rigid and linear to emphasize the contrast between the building - unorganic and the grown - organic. This circulation diagram is based on the slime mold technique used for the tokyo rail system, where they use oat on the key places and slime mold on the centre. As it spreads organically it traces the faster connections between the key points (represented by the oat).



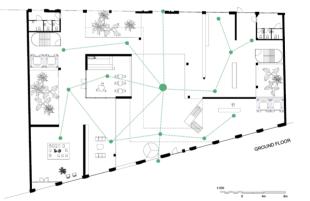




Organic reference shape

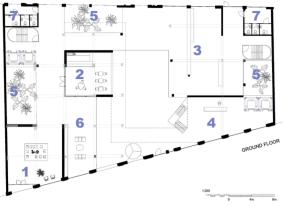
Grounf floor circulation

All floors combined





Library
Coffee
Store
Reception
Gardens
Sitting area
WC

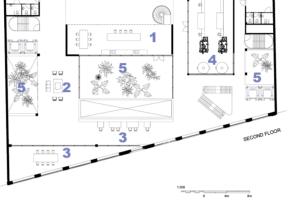


Marketing office
Meeting areas
Show room
Laboratory (skin)
Gardens
WC



2 4 Exhibition space
Laboratory (plants)
Gardens
WC Ç. 3 · Weith -× 1200 0 4m 8m

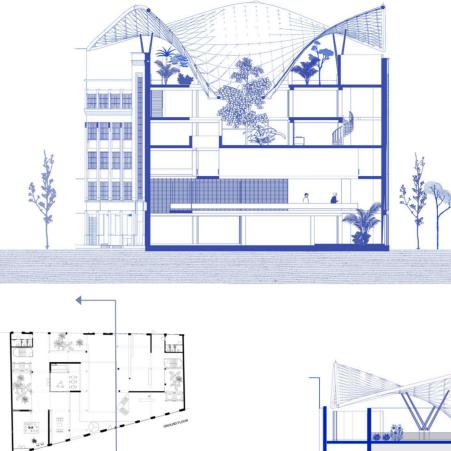


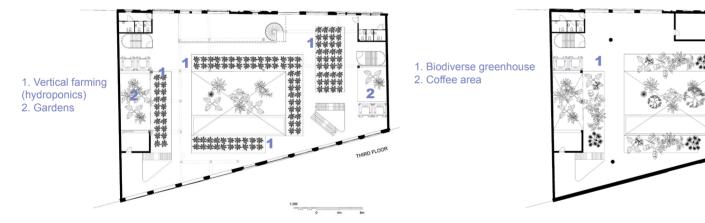


2

0 4m 8m

28-28-



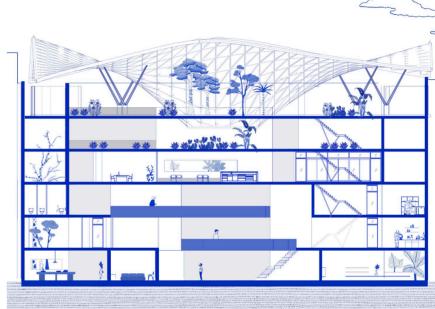


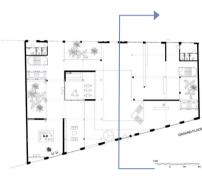


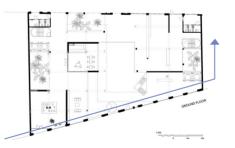


PROPOSED SECTIONS









DETAILS WIRE MESH FACADE

DETAILS MOVABLE WALLS (exhibition space)

