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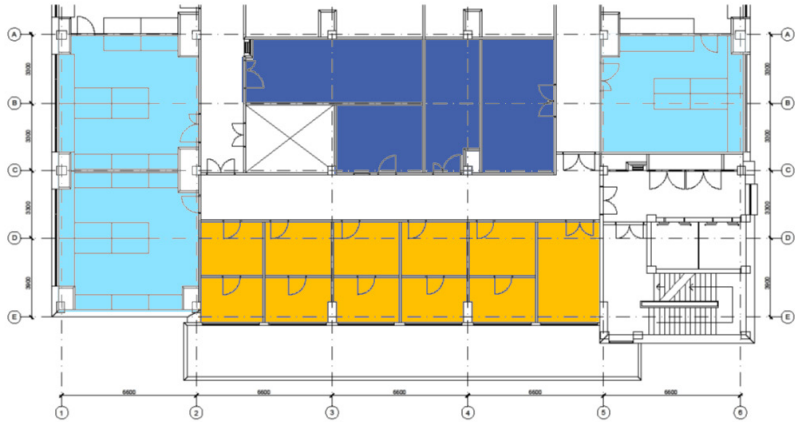
Brief Development

2.4

Precedent Analysis - Existing Facilities

2.4.4

Working Group Clusters

	Write-up, meeting, quiet hub, office	Primary laboratory	secondary laboratory
CRB		ICTEM	MRC LMB (New Laboratory of Molecular Biology)
PROS	<ul style="list-style-type: none">Primary labs located to perimeter of the building with daylightLab flexibility; divide to accommodate 2 bays each, or open up to allow 4 bays eachLab intimacy; provide work spaces for 10 - 20 people (excl. equipment)Local shared equipment rooms located deep in planPI offices to south and north elevations with daylight'Race-track' corridor around central secondary spaces ensures accessibility to all; promotes increased interaction between scientists travelling between lab and write-up	<ul style="list-style-type: none">Smaller individual single bay labs for specialist groups located centrally and to building perimeter with daylightCentral secondary spaces accessible from both sides by allPI offices and large open lab are connected visually through large windowsOpen-plan office and labs provide ample possibility for increased interactionLabs present more working space than the CRB with 3.4m wide bays instead of the standard 3.3m working bay.Range of large, medium and small individual spaces for a variety of usesHigher flexibility for research group numbers to change	<ul style="list-style-type: none">Each primary lab has 40 bench-workers with adjacent write-up spaces, PI offices and local equipment roomsBenches are double length (4.01m notionally for two people), in 3.3m wide baysEach 'wing' module splits into a series of clusters consisting of a double bay of primary laboratory for 8 researchers plus a single instrument or primary laboratory bayThe plan is semi-open, with walls separating pairs of bays from adjacent single-bay equipment areasWrite-up desks are separated from benches by a clean corridor, and are intermingled with PI officesEquipment rooms are separated from the laboratories by a main corridor, ensuring accessibility to all and promoting interactions between scientists however this is due to the fact that all equipment in LMB is shared
CONS	<ul style="list-style-type: none">No large interactive write-up spaceSmall 2/3 person write-up rooms located adjacent PIsInsular plan with groups assigned to their own lab and write-upLittle scope for interaction across groupsLittle natural light for the researchersLack of large shared storage space presents issuesLess feasibility if research group sizes change over time	<ul style="list-style-type: none">Primary shared labs split into large 8+ bay central to building and adjacent the atriumLabs separated from write-up and PI offices by a large linear atrium as well as feeling further removed due to the requirement of access controlAtrium and internal rooms lack natural lightLab presents concerns over separation of group spaces and facilities	<ul style="list-style-type: none">PI offices break up linear write-up space reducing interaction across groupsInsular plan with groups assigned to their own lab and write-upScientists at end of wing have to travel longer distances to central technology hubsHigher amount of circulation space

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2.5

Brief Development

Space Classifications

The table below outlines the space classifications which have been used to set out specific space requirements for the different activities and functions of the brief.

<div></div> <div>Primary Laboratories Primary research laboratory spaces, including communal equipment and bench space within</div>	<div></div> <div>Cellular Offices Single person offices, used primarily by:<ul style="list-style-type: none">– Heads of Departments– Primary Investigators (PI)– Managers</div>	<div></div> <div>Specialist Teaching A space which can only be used to teach a specific subject, examples include:<ul style="list-style-type: none">– Immersive digital environments– Simulation rooms (medical training)– Teaching Laboratories (including support spaces)</div>	<div></div> <div>Circulation Lifts, lobbies stairs and corridors. As a rule of thumb if a room could not function without the circulation space adjacent - then the circulation should be included in the space type category - not circulation</div>	<div></div> <div>Plant<ul style="list-style-type: none">– Plant areas (including roof top plant - to allow comparison across projects) separate line outside of GIA– Server rooms– Comms. rooms– Risers</div>
<div></div> <div>Shared Secondary Labs Laboratory support spaces which are shared by multiple user groups within the building. Examples:<ul style="list-style-type: none">– Tissue culture– Constant temperature / freezer rooms– Prep. rooms– Glassware / autoclave– Microscopy suites</div>	<div></div> <div>Shared Offices Offices occupied by 2 or more people, including:<ul style="list-style-type: none">– Write up spaces– Computational Research– Administration and Technical Staff</div>	<div></div> <div>General Teaching Space which can be used to teach a range of subjects:<ul style="list-style-type: none">– Lecture theatre– Seminar room</div>	<div></div> <div>Balance Spaces used to support the function of the building:<ul style="list-style-type: none">– WCs– General stores– Delivery areas– Reception– Post room</div>	<div></div> <div>Engineering Spaces used to support the function of the building:<ul style="list-style-type: none">– Internal walls– Internal structure– Interstitial zones (please make a note of these in the template but exclude them from GIA and total plant area)</div>
<div></div> <div>Direct Secondary Labs Support spaces which are used only by a specific user group, either because of ownership or because they contain highly specialised kit. These spaces usually require adjacency to the relevant primary lab.</div>	<div></div> <div>Meeting Spaces Fully enclosed meeting spaces, including:<ul style="list-style-type: none">– Meeting rooms– Board Rooms– Enclosed break out</div>	<div></div> <div>Specialist / Other Non of the above - please avoid putting things in this category where possible. Examples:<ul style="list-style-type: none">– Greenhouses– Shell and core areas</div>		
<div></div> <div>Tertiary Spaces Tertiary spaces support the laboratory research but are not necessarily part of the laboratory curtilage.<ul style="list-style-type: none">– Archives– Laboratory storage– Workshops</div>	<div></div> <div>Collaboration Areas Open areas used for collaborative functions:<ul style="list-style-type: none">– Open break out areas– Group work– Collaboration spaces</div>			
	<div></div> <div>Social Areas Where people might socialise:<ul style="list-style-type: none">– Cafe's (including kitchens)– Tea points– Staff rooms</div>			