The NHLI is involved in the following UK Strategic Initiatives and Imperial College Networks & Centres of Excellence:

**Antimicrobial Research Collaborative at Imperial**

- Centre for Antimicrobial Resistance & Therapeutics
  - imperial.ac.uk/arc

**Centre for Blast Injury Studies**

- imperial.ac.uk/blast-injury

**Institute of Chemical Biology**

- imperial.ac.uk/chemical-biology

**Centre for Cardiac Engineering**

- imperial.ac.uk/cardiac-engineering-centre

**Centre for Drug Discovery Science**

- imperial.ac.uk/drug-discovery-science

**Centre for Integrative Systems Biology and Rheumatoid Arthritis**

- imperial.ac.uk/integrative-systems-biology

**EPSRC Centre for Mathematics of Precision Healthcare**

- imperial.ac.uk/mathematics-precision-healthcare

**NIHR Health Protection Research Unit in Respiratory Infections**

- imperial.ac.uk/medicine/nihr-hpru-respiratory-infections

**National Centre for Mesothelioma Research**

- imperial.ac.uk/national-centre-mesothelioma-research

**Strategic Research Centre for Cystic Fibrosis EpiNet (with Cystic Fibrosis Trust)**

- imperial.ac.uk/src-cf-epinet

**Strategic Research Centre for Pseudomonas Infection in Cystic Fibrosis (with Cystic Fibrosis Trust)**

- imperial.ac.uk/src-pseudomonas-infection

**Air Quality Network**

- imperial.ac.uk/air-quality

**Asthma UK Centre in Allergic Mechanisms of Asthma**

- asthma-allergy.ac.uk

**BHF Cardiovascular Regenerative Medicine Centre**

- imperial.ac.uk/bhf-regenerative-medicine

**BHF Centre of Research Excellence**

- imperial.ac.uk/bhf-research-excellence

**ElectroCardioMaths Programme**

- imperial.ac.uk/electrocardiomaths

**Network for Vaccine Research**

- imperial.ac.uk/vaccine-research-network

**Vascular Science Network**

- imperial.ac.uk/vascular-science-network

**Wound Healing and Regeneration Network**

- imperial.ac.uk/wound-regeneration

**Strategic Plan 2019-2024**

- National Heart and Lung Institute

- imperial.ac.uk/nhli

- Our work is supported by the National Heart and Lung Institute Foundation

---

**Imperial College London**

- Online: @ImperialNHLI
  - www.imperial.ac.uk/nhli
  - www.imperial.ac.uk/arc

Our work is supported by the National Heart and Lung Institute Foundation

---

**National Heart and Lung Institute**

- Strategic plan 2019-2024

---

**To harness our collective expertise to tackle the ‘grand challenges’ in heart, lung and vascular research**

**To attract the best and brightest minds and to deliver outstanding training for both clinical and non-clinical scientists**

**To be a national resource and to be outward facing**

**To leverage the very best from our outstanding NHS partners, and through the NIHR Imperial College Biomedical Research Centre, deliver improved health and well-being**

**To consolidate our research on the Imperial West Campus thus generating a single and critical mass of researchers supported by world-class research facilities and capabilities**

**Valuing education and continuing to improve the student experience at all levels**

**To increase our collaborations with international agencies, patient-led organisations, the pharmaceutical industry and other Faculties at Imperial College London**

**To become an exemplar of a ‘well-led, well-run’ Institute; one with a common and shared purpose, and where every member is valued and supported**

---

**Our strategic challenges for 2019-2024**

- Imperial College London
The National Heart and Lung Institute (NHLI) is part of the Faculty of Medicine at Imperial College London

### The NHLI:
- Is the UK’s largest heart and lung research institute, conducting world-leading basic and translational research.
- Is committed to developing new treatments and cures for heart, lung and vascular diseases, which together kill 1 in 2 people in the UK and worldwide.
- Is global in its outreach and influence with international collaborations and partnerships.
- Has over 500 staff, including 130 Principal Investigators, 3 Fellows of the Royal Society, 8 NIHR Senior Investigators and 20 Fellows of the Academy of Medical Sciences.
- Is a major teaching centre for medical undergraduates and cardiovascular and respiratory scientists; with over 200 PhD or MD students and 150 MSc students.
- Hosts a number of UK Centres of Excellence including the Asthma UK Centre, BHF Centre for Research Excellence, BHF Cardiovascular Regenerative Medicine Centre and National Centre for Mesothelioma Research.
- Is committed to enhancing diversity, in all its forms, and supporting, developing and valuing its staff.
- Is committed to developing new treatments and cures for heart, lung and vascular diseases, which together kill 1 in 2 people in the UK and worldwide.
- Is global in its outreach and influence with international collaborations and partnerships.
- Hosts a number of active grants.
- Works with a number of outstanding partner hospitals including the Royal Brompton and Harefield, St Mary’s, Hammersmith, Charing Cross and Royal Marsden; part of the UK’s largest NIHR Biomedical Research Centre at Imperial College London.

### Mission
The mission of the National Heart and Lung Institute is to investigate the causes of heart, lung and vascular diseases in order to prevent, monitor and treat these disorders.

### Aim
Our aim is to reduce death and suffering from heart, lung and vascular disease.

### The NHLI undertakes world-leading research in:

<table>
<thead>
<tr>
<th>Area</th>
<th>Research Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vascular, myocardial and lung cell biology</td>
<td>Population health: including environmental, occupational causes of heart, lung and vascular disease</td>
</tr>
<tr>
<td>Lung immunology, allergy and infection</td>
<td>Disease progression: early disease, repair, ageing &amp; tissues</td>
</tr>
<tr>
<td>Cardio: Electrophysiology</td>
<td>Genomics, imaging, big data and artificial intelligence</td>
</tr>
<tr>
<td>Advanced therapies: genes, drugs, stem cells and devices</td>
<td>Clinical trials: patient cohorts, volunteer studies, biosimilars, and trial design</td>
</tr>
</tbody>
</table>

### Our vision for 2024
- Remain a UK and global centre of excellence for heart, lung and vascular research.
- Retain our place as the UK’s premier academic environment for educating and training the next generation of basic, clinical and applied heart, lung and vascular scientists.
- Promote academic excellence and innovation.
- Offer world-class research facilities and patient cohorts.
- Work effectively with our NHS and industry partners.
- Adopt collaborative and inter-disciplinary approaches to research at all levels.
- Remain patient-focused.
- Be a fantastic place to work, valuing diversity, academic freedom and innovation.