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The Structural Biology and Genomics Department is involved in a structural genomics program whose goal is solving crystal structure of protein families members, related to human health, alone or in complex with ligands and protein partners. With this aim, the Department has implemented a Platform (Structural Biology and Genomics Platform – SBGP) consisting of different interconnected modules (cloning/mini-expression, production and crystallization). We have developed automated methods, emphasising their flexibility, in order to adapt each step to project requirements. Here we present a global view of procedures we have established to tackle crystallization of protein samples.

**Preliminary tests : Optimum Solubility Screen (2) and Pre-Crystallization Test**

- **Vapour Diffusion (sitting drops)**
- **Screening**
  - 9 Commercial screens
  - 3 Home-made screens
  - Total of more than 1000 conditions
- **Optimization**
  - Screen refinement
    - From a collection of over 100 stock solutions (regularly checked)

**Micro-batch**
- **Micro-batch (IMPAX)**:
  - 2D interpolation (phase diagram determination)

**The Leica Visualization System** for image capture of crystallization trials using SBS plates

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