



Κέντρο Νέων Βιοτεχνολογιών και Ιατρικής Ακριβείας ΚεΝεΒΙΑ
Ερευνητική Υποδομή pMedGR



pMedGR

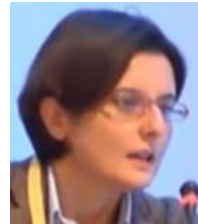
www.precisionmedicine.gr

Μονάδα Δειγματοληψίας και Επεξεργασίας Κλινικών Δειγμάτων



Μαρία Τσουμακίδου, MD, PhD

Επιστημονική Υπεύθυνος



Κλειώ Μαυραγάνη, MD, PhD

Επιστημονική Υπεύθυνος



Μενέλαος Μανωλούκος, MSc

Υπεύθυνος Μονάδας

Συλλογή δειγμάτων



Τυποποιημένες Διαδικασίες ως προς τη συλλογή και μεταφορά των δειγμάτων

precisionmedicine.gr/samples-reception-processing

pMedGR

HOME ABOUT UNITS UNIT MEMBERS NEWS & EVENTS CONTACT

1st Open Access Call for Research Services [Submit Proposals](#)

CLINICAL SAMPLES RECEPTION & PROCESSING UNIT

To request a service from pMedGR, please fill out the Service Request Form, by clicking the button below:

[Service & Info Request Form](#)

[Sample Collection Technical Info - Genomics](#)
[Sample Collection Technical Info - Single Cell Analysis](#)
[Sample Collection Technical Info - Proteomics](#)
[Sample Collection Technical Info - CyTOF](#)
[Unit Members & Contact Information](#)

Purpose & Overview

The "Clinical Samples Reception and Processing Unit" is part of the pMedGR infrastructure. The unit provides investigators with specialized pre-analytical processing for a variety of biospecimen types, to accommodate analysis of their products in the advanced technology platforms of pMedGR.

The unit collects high quality samples of normal and diseased human material (e.g., whole blood, cellular blood or tissue components, bone marrow, plasma, serum and tumor tissue, cell cultures) and processes them to products which qualify through quality indicators (justification) for next generation sequencing, gene expression analysis, mass cytometry, single cell genetic analysis, proteomics and metabolomics.

- Τυποποιημένες και ελεγχόμενες διαδικασίες
- Υποδοχή, Καταγραφή των κλινικών δειγμάτων
- Αρχική αξιολόγηση δειγμάτων και προώθηση στις μονάδες ανάλυσης

Υποδοχή δειγμάτων για τη 2^η Ανοικτή Πρόσκληση

Ιατρική Σχολή Αθηνών



Μονάδα Κυτταρομετρίας Μάζας



Μονάδα Εξατομικευμένης Γονιδιωματικής & Μεταγραφομικής

ΕΚΕΒΕ “Αλέξανδρος Φλέμιγκ”

Μονάδα Πρωτεωμικής



Δείγματα για Κυτταρομετρία Μάζας

Ολικό αίμα



Με Αντιπηκτικό:
EDTA ή Heparin

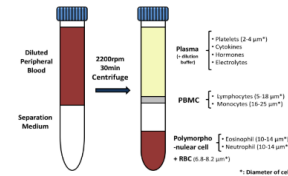
Ποσότητα

1 γενική αίματος 2 - 3 mL

Συνθήκες Μεταφοράς

Θερμοκρασία Περιβάλλοντος
Αυθημερόν σε <16-18 ώρες
Όχι πάγο / Όχι 2-8 βαθμούς

Απομονωμένα Περιφερικά Κύτταρα Αίματος



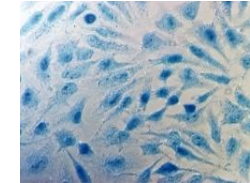
Ποσότητα

Περισσότερα από: $3-10 \times 10^6$

Συνθήκες Μεταφοράς

Παγωμένα σε 10% DMSO σε FCS
Ξηρό Πάγο

Απομονωμένα Κύτταρα από ιστό ή καλλιέργειες



Ποσότητα

Περισσότερα από: 3×10^6

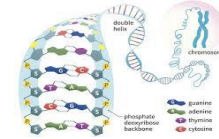
Συνθήκες Μεταφοράς

Παγωμένα σε 10% DMSO σε FCS
Ξηρό Πάγο

>90% βιωσιμότητα των κυττάρων

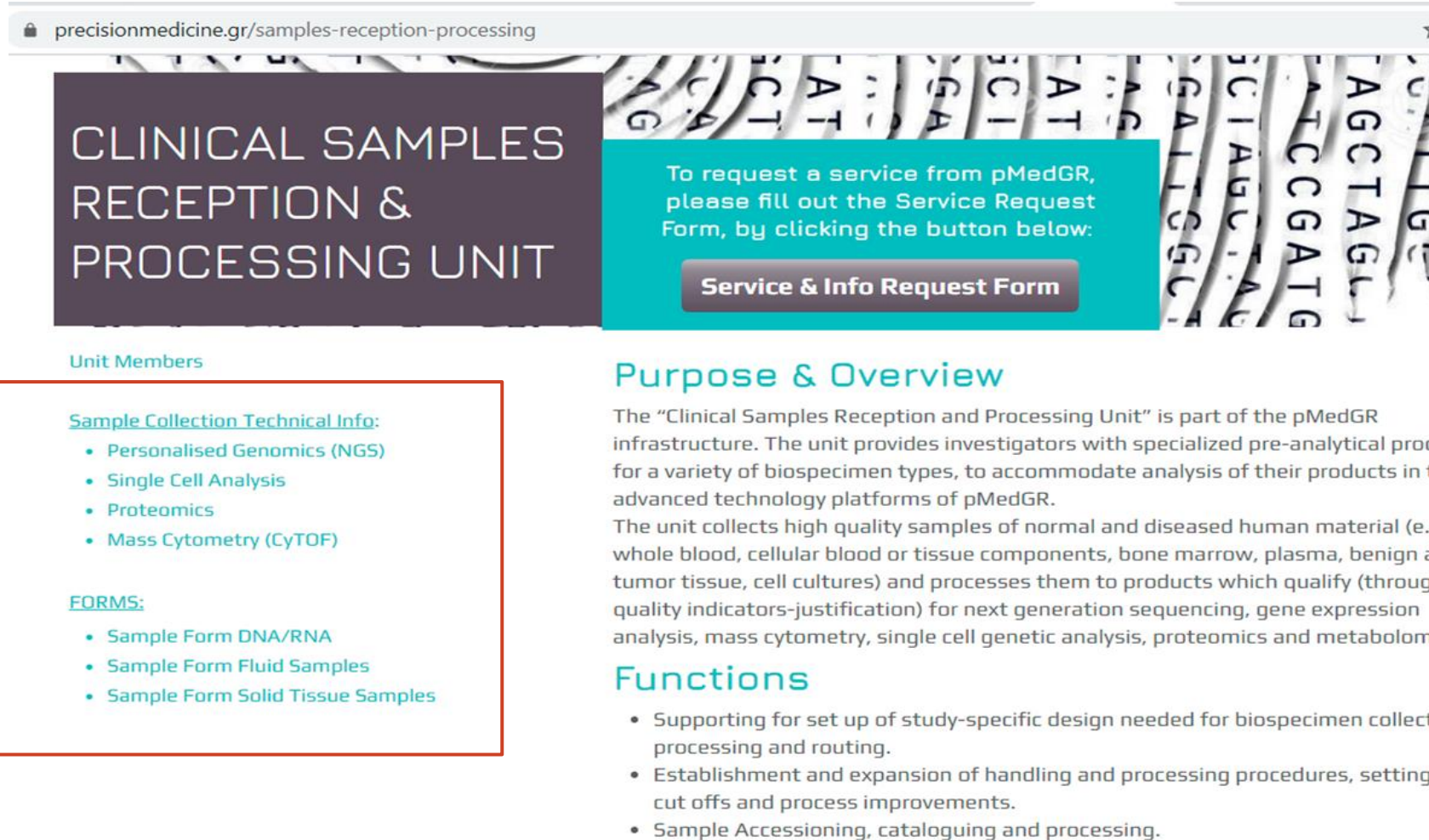
Δείγματα για Αλληλούχιση Νέας Γενιάς

Νουκλεϊκά Οξέα (DNA/RNA)



			<u>Ελάχιστη ποσότητα</u>	<u>Συγκέντρωση</u>	<u>Ποιοτικά Χαρακτηριστικά</u>
Γονιδιωματική	Exome Seq	→	DNA >500 ng	>50ng/μL	260/280 ratio: 1,8-2.,,2 RIN: >7
Μεταγραφομική	3'-mRNA-Seq	→	RNA >500 ng	>50ng/μL	260/280 ratio: 1,8-2.,,2 RIN: >7
	mRNA-Seq	→	RNA >1000 ng	>50ng/μL	260/280 ratio: 1,8-2.,,2 RIN: >7
Συνθήκες Αποστολής Δείγματος		→	Υδατικό διάλυμα, Παγωμένο, Μεταφορά σε ξηρό πάγο		

Κριτήρια καταλληλότητας και οδηγίες



precisionmedicine.gr/samples-reception-processing

CLINICAL SAMPLES RECEPTION & PROCESSING UNIT

To request a service from pMedGR, please fill out the Service Request Form, by clicking the button below:

[Service & Info Request Form](#)

Unit Members

Sample Collection Technical Info:

- Personalised Genomics (NGS)
- Single Cell Analysis
- Proteomics
- Mass Cytometry (CyTOF)

FORMS:

- Sample Form DNA/RNA
- Sample Form Fluid Samples
- Sample Form Solid Tissue Samples

Purpose & Overview

The “Clinical Samples Reception and Processing Unit” is part of the pMedGR infrastructure. The unit provides investigators with specialized pre-analytical procedures for a variety of biospecimen types, to accommodate analysis of their products in the advanced technology platforms of pMedGR.

The unit collects high quality samples of normal and diseased human material (e.g. whole blood, cellular blood or tissue components, bone marrow, plasma, benign and tumor tissue, cell cultures) and processes them to products which qualify (through quality indicators-justification) for next generation sequencing, gene expression analysis, mass cytometry, single cell genetic analysis, proteomics and metabolomics.

Functions

- Supporting for set up of study-specific design needed for biospecimen collection, processing and routing.
- Establishment and expansion of handling and processing procedures, setting up cut offs and process improvements.
- Sample Accessioning, cataloguing and processing.

Address: <https://www.precisionmedicine.gr/samples-reception-processing>

www.precisionmedicine.gr

Φόρμες Καταγραφής εισερχόμενων δειγμάτων (DNA/RNA) (Blood/Cells)



pMedGR

DNA/RNA Sample Form

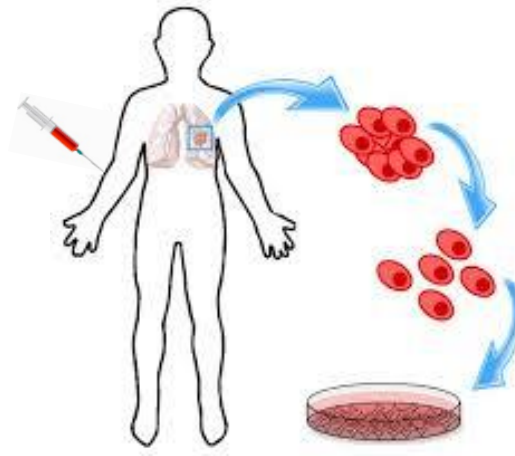
Sample Form					
Choose an item.					
Organism*	Biological Material*	Tissue of DNA/RNA Origin	Concentration (ng/ μ L)	Volume (μ L)	Long term Storage
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.
...	Choose an item.	...	...	...	Choose an item.

Fluid Samples Form

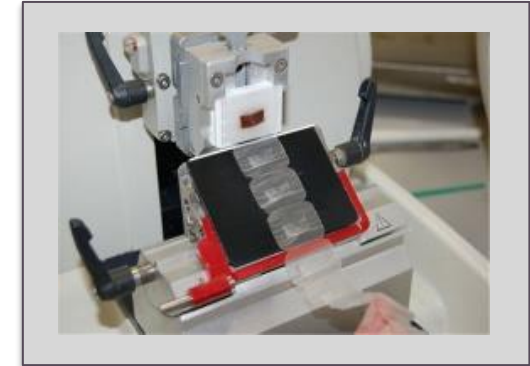
Sample Form							
Species: Choose an item.							
Sample Name*	Type of Sample*	Primary Container (anticoagulant type)*	Pre-Centrifugation Delay	First Centrifugation	Second Centrifugation	Post Centrifugation Delay	Long term Storage
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.
...	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.	Choose an item.

Είδη Κλινικών Δειγμάτων

Περιφερικό Αίμα



FFPE



Φρέσκος Ιστός



Κατεψυγμένος Ιστός



Κυτταροκαλλιέργειες

