

## **Basic Information :**

 Name :
 Hayam Lotfy

 Title :
 Professor of Analytical Chemistry



Professor Hayam Lotfy, professor of Analytical Chemistry - Department of pharmaceutical chemistry. she has a PH.D and MSC degree in Analytical Chemistry from Cairo university.

| Education:  |       |            |      |  |  |
|-------------|-------|------------|------|--|--|
| Certificate | Major | University | Year |  |  |
| PhD         |       |            | 1997 |  |  |
| Masters     |       |            | 1993 |  |  |
| Bachelor    |       |            | 1987 |  |  |

| Teaching Experience: |              |            |         |  |  |
|----------------------|--------------|------------|---------|--|--|
| Name Of Organization | Position     | From Date  | To Date |  |  |
| FUE                  | Section Head | 01/03/2015 | Current |  |  |

## **Researches / Publications :**

Sustainable spectrophotometric determination of antihypertensive medicines reducing COVID-19 risk via paired wavelength data processing technique - Assessment of purity, greenness and whiteness

Smart Spectrophotometric Methods for Concurrent Determination of Furosemide and Spironolactone Mixture in Their Pharmaceutical Dosage Forms

Coupling of Physical and Chromatographic Separation for Analyzing Cream Containing Miconazole, Mometasone Furoate and Gentamicin Sulphate

Eco-friendly spectrophotometric evaluation of triple-combination therapies in the treatment strategy of patients suffering from hypertension during coronavirus pandemic . A Spectral print recognition study

Simultaneous determination of hydrochlorothiazide, amlodipine, and telmisartan with spectrophotometric and HPLC green chemistry applications

Comparative Study of the Selectivity power of Colorimetric Method Over Chromatographic Methods For the Analysis of Valaciclovir Hydrochloride

Evaluation of In Silico and In Lab Sample Enrichment Techniques for the Assessment of Challengeable Quaternary Combination in Critical Ratio

Trade-off efficacy and data processing strategy in the power of spectral resolution of co-formulated antihypertensive pharmaceuticals

Ultraviolet spectrophotometric methods for the determination of the minor component presented in fixed-dose pharmaceutical combinations through the last two decades QCECE. GECED

Evaluation of assay and in-vitro dissolution profile of certain fixed-dose combination using green analytical method

Analytical tools for greenness assessment of chromatographic approaches: Application to pharmaceutical combinations of Indapamide, Perindopril and Amlodipine

Comprehensive comparative study of eco-friendly Univariate and multivariate methodological approaches on processing multicomponent formulation quality

Induced mathematical filtration as an innovative strategy for discrimination and estimation of glycemic control drugs in fixed dose combination

Impact Study of Mathematical Manipulation on the Resolution Efficiency of the Spectrophotometric Technique. An Application on Veterinary Binary Mixture with Overlapping Absorption Bands

Synchronous UPLC Resolution of Aceclofenac and Diacerin in Their Powdered Forms and Matrix Formulation: Stability Study

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A Green Potentiometric Application for Selective Monitoring of Doxylamine Succinate Dissolution Profile in Combined Dosage Form.

% Synchronous UPLC Resolution of Aceclofenac and Diacerin in Their Powdered Forms and Matrix Formulation: Stability Study+

The concept of Relative Absorptivity Distribution for enhancing disbanding power of spectrophotometric technique to resolve coformulated tablets: A tool for purity index and uniformity assessment.

Paired wavelength relevance as spectrophotometric strategy for evaluation the potency of medicine affecting human health. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy

Coupling of liquid-liquid extraction and mathematical filtration techniques for the separation and quantification of five components in semisolid dosage form with severely overlapped spectra.

Evaluation of the efficiency of smart stability-indicating spectrophotometric methods based on mathematical and statistical processing of the obtained results Via different manipulating pathways.

Novel feature extraction approach for achieving potential spectral resolution: Green analytical application on zofenopril calcium and hydrochlorothiazide in their spectrally overlapping binary mixture. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy.

Smart spectral processing of data for the estimation of commonly used over the counter (OTC) co-formulated; Pseudoephedrine hydrochloride and Ibuprofen

Coupling of GC-MS/MS to Principal Component Analysis for Assessment of Matrix Effect: Efficient Determination of Ultra-Low Levels of Pesticide Residues in Some Functional Foods.

Spectral analysis of overlapped absorption bands of binary mixtures an application on combination of pseudoephedrine sulphate and loratadine mixture.

ÂDifferent aspects in manipulating overlapped spectra used for the analysis of trimebutine maleate and structure elucidation of its degradation products.

Novel univariate spectrophotometric determination of the recently released solid dosage form comprising dapagliflozin and saxagliptin via factorized response spectra: Assessment of the average content and dosage form uniformity of tablets

Spectral analysis of overlapped absorption bands of binary mixture-an application on combination of Pseudoephedrine Sulfate and Loratadine mixture

Potentiometric sensing of Valaciclovir Hydrochloride in the presence of its acid induced degradation product with real time acquisition of the dissolution profile from its pharmaceutical formulations

Developing spectral numerical factor technique for the determination of amlodipine besylate and the latest generation of statins in their new pharmaceutical combination

Real time selective monitoring of the dissolution behavior of Pseudoephedrine Sulfate and Loratadine in their binary and ternary dosage form by utilization of In-line potentiometric sensor

Study of efficiency and spectral resolution for mathematical filtration technique using novel unlimited derivative ratio and classical univariate spectrophotometric methods for the multicomponent determination-stability analysis

Monitoring of Clotrimazole degradation pathway in presence of its co-formulated drug

Investigating advanced approaches based on iso-absorptivity coefficient in unresolved spectral signals of binary mixtures

Testing the purity of spectral profiles: Finger-print resolution of complex matrices and extraction of absorbance signals

Double-Dip Approach: Simultaneous Dissolution Profiling of Pseudoephedrine and Ibuprofen in a Combined Dosage Form by Ion Selective Electrodes

Spectrophotometric resolution of the severely overlapped spectra of clotrimazole with dexamethasone in cream dosage form by mathematical manipulation steps

Novel absorptivity centering method utilizing normalized and factorized spectra for analysis of mixtures with overlapping spectra in different matrices using built-in spectrophotometer software

Novel stability-indicating chemometric-assisted spectrophotometric methods for the determination of chlordiazepoxide and clidinium bromide in the presence of clidinium bromide's alkali-induced degradation product

Comparative study of the efficiency of computed univariate and multivariate methods for the estimation of the binary mixture of clotrimazole and dexamethasone using two different spectral regions

Novel stability-indicating chemometric-assisted spectrophotometric methods for the determination of chlordiazepoxide and clidinium bromide in the presence of clidinium bromide's alkali-induced degradation product

Evaluation of graphical and statistical representation of analytical signals of spectrophotometric methods.

Novel Pure Component Contribution Algorithm (PCCA) and UHPLC methods for separation and quantification of amlodipine, valsartan, and hydrochloro-thiazide in ternary mixture.

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Validated stability-indicating chromatographic methods for the determination of chlordiazepoxide and clidinium bromide in the presence of its alkali-induced degradation product.

Different applications of isosbestic points, normalized spectra and dual wavelength as powerful tools for resolution of multicomponent mixtures with severely overlapping spectra.

Spectrophotometric Determination For the Binary Mixture of Clotrimazole and Dexamethasone in Pharmaceutical Dosage Form

Investigation of the Profile and Kinetics of Degradation of Fenticonazole Nitrate using Stability-indicating HPLC Assay in Presence of Methyl and Propyl Parabens: Application to Preformulation Studies

Recent development in ultraviolet spectrophotometry through the last decade CEEI . CEFI D

Comparative study of the resolution efficiency of HPLC and HPTLCdensitometric methods for the analysis of mebeverine hydrochloride

Comparative study of the spectral resolution efficiency of the recently developed and conventional spectrophotometric methods in the analysis of severely overlapped zero-order absorption spectra with the same geometrical features

Evaluation of the efficiency of continuous wavelet transform as processing and preprocessing algorithm for resolution of overlapped signals in univariate and multivariate regression analyses; an application to ternary and quaternary mixtures

Comparative Study of the Resolution Efficiency of High-performance Liquid Chromatographic and Chemometrics-assisted UV Spectrophotometric Methods: Application on Pharmaceutical Mixtures

Validated spectrophotometric methods for simultaneous determination of Omeprazole, Tinidazole and Doxycycline in their ternary mixture

Development and validation of stability indicating spectrophotometric methods for determination of sulbutiamine in tablet dosage form

- Stability Indicating spectrophotometric methods for determination of nicardipine in the presence of its alkaline induced degradation products

Evaluation of the efficiency of continuous wavelet transform as processing and preprocessing algorithm for resolution of overlapped signals in univariate and multivariate regression analyses; an application to ternary and quaternary mixtures

Simultaneous determination of mebeverine hydrochloride and chlordiazepoxide in their binary mixture using novel univariate spectrophotometric methods via different manipulation pathways

Validated spectrophotometric methods for simultaneous determination of Omeprazole, Tinidazole and Doxycycline in their ternary mixture .

Development and validation of a modified QuEChERS protocol coupled to LC. MS/MS for simultaneous determination of multi-class antibiotic residues in honey

Simultaneous Determination of 200 Pesticide Residues in Honey using Gas Chromatography-Tandem Mass Spectrometry in Conjunction with Streamlined Quantification Approach

Simultaneous determination of 200 pesticide residues in honey usinggas chromatography. tandem mass spectrometry in conjunction withstreamlined quantification approach

A comparative study of progressive versus successive spectrophotometric resolution techniques applied for pharmaceutical ternary mixtures

Design, Optimization, and Validation of Thin-Layer Chromatography. Densitometry and Chemometry-Assisted Spectrophotometry: A Comparative Study Applied on Quaternary Mixture

10-Development of Membrane Electrodes for the Specific Determination of Tetryzoline Hydrochloride in Presence of its Degradation Product in Pharmaceutical Formulations and Biological Fluids ,Hayam M. Lotfy, ., Vol. 7, No. 1, 2015, 75-90

Comparative study of novel versus conventional two-wavelength spectrophotometric methods for analysis of spectrally overlapping

Development and validation of LC. MSMS assay for the determination of the prodrug dabigatran etexilate and its active metabolites inhuman plasma

Comparative Study of Multivariate and Univariate Determination of Zolmitriptan in the Presence of itsDegradation products

Computation of geometric representation of novel spectrophotometric methods used for the analysis of minor components in pharmaceutical preparations

Spectrophotometric Methods for Quantitative Determination of Binary Mixture of Naproxen Sodium and Domperidone Maleate

A comparative study of the novel spectrophotometric methods versus conventional ones for the simultaneous determination of Esomeprazole magnesium trihydrate and Naproxen in their binary mixture

A comparative study of smart spectrophotometric methods for simultaneous determination of sitagliptin phosphate and metformin hydrochloride in their binary mixture

Development of membrane electrodes for the specific determination of tetryzoline hydrochloride in presence of its degradation product in pharmaceutical formulations and biological fluids

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Validation of Selective Electrochemical Method for Determination of Sumatriptan in Combined Dosage Form

Application of three novel spectrophotometric methods manipulating ratio spectra for resolving a pharmaceutical mixture of Chlorphenoxamine hydrochloride and Caffeine

Simultaneous Determination of Sumatriptan and Naproxen in Dosage Forms and Human Plasma Using LC/MS