

The Making of the Digital Salzinnes

Jennifer Bain
Julie Cumming
Ichiro Fujinaga
Andrew Hankinson
Kate Helsen
Debra Lacoste
Barbara Swanson

Colophon (Detail)

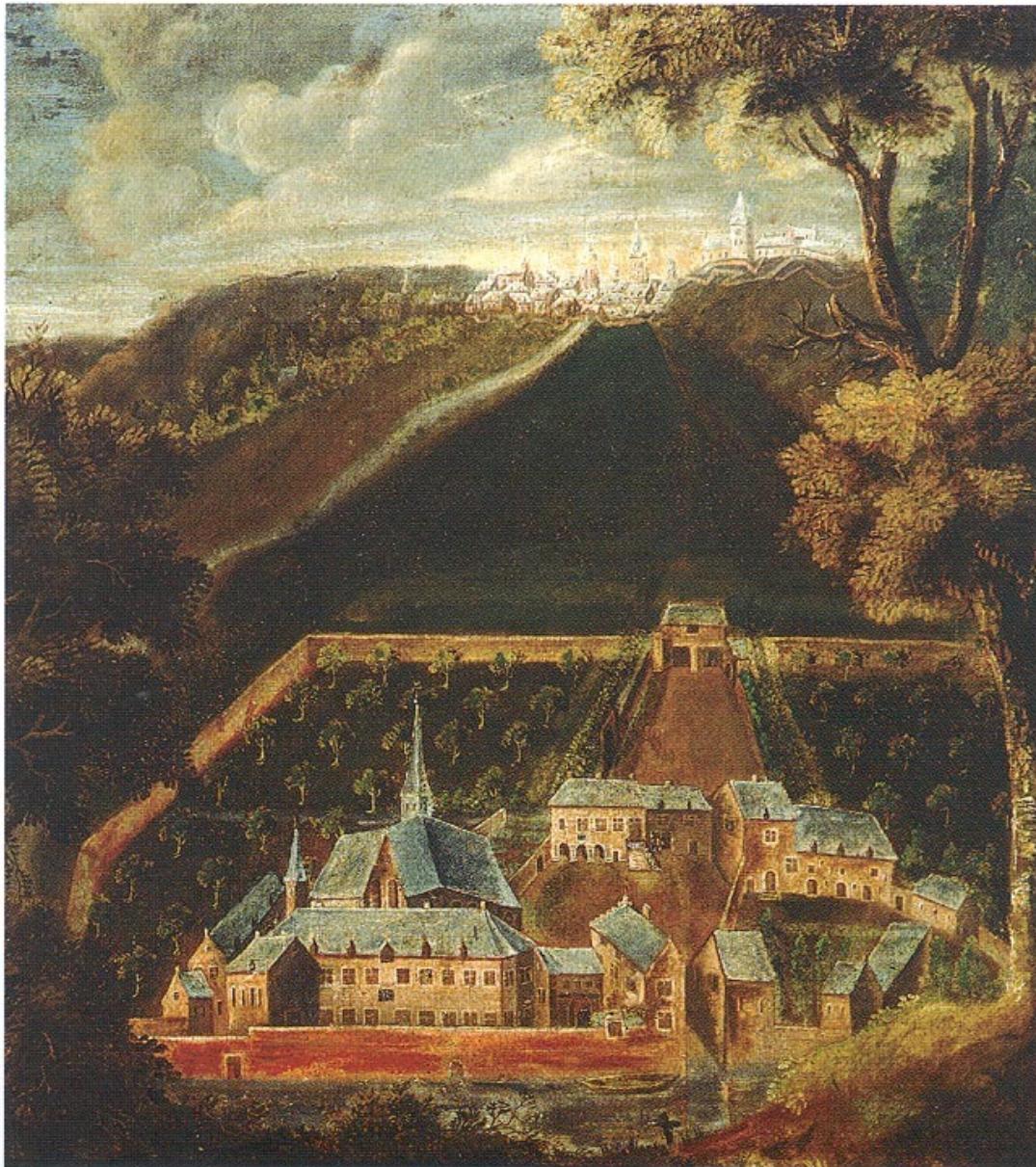
obiuam christo domino. Euouac. Amo. H. S. S. S.

Che libure frist faire Dame Julienne
de glumes prieuse de salsines Iadit
grande chantre de ce lieu. Prijes
dieu pour elle.

Colophon, 1555

- Che libure feist faire Dame Julienne de glymes prieuse de Salsines Jadit grande chantre de ce lieu. Pryes dieu pour elle.
- [Lady Julienne de Glymes, Prioress of Salsines, formerly the cantrix of this place had this book made. Pray to God for her.]

The Abbey of Salzinnes



L'abbaye de Salzinnes au début du XVIII^e siècle
Anonyme. Huile sur toile. 109,5 x 99,5 cm.
Séminaire de Namur.

The Salzinnes Antiphonal

The Patrick Power Library, Saint Mary's University, Halifax



Archbishop William Walsh



Cantus Ultimus

- Ichiro Fujinaga, McGill
- Jennifer Bain, Dalhousie
- Julie Cumming, McGill
- Elsa De Luca, University of Bristol
- Debra Lacoste, University of Waterloo
- Andrew Hankinson, McGill
- Alessandra Ignesti, McGill
- Kate Helsen, University of Western Ontario
- Jan Koláček, Charles University
- Barbara Swanson, Dalhousie

CANTUS.SIMSSA.CA

The screenshot shows a web browser window with the URL `cantus.simssa.ca` in the address bar. The page content is as follows:

Cantus Ultimus About Activities Team Manuscripts Search

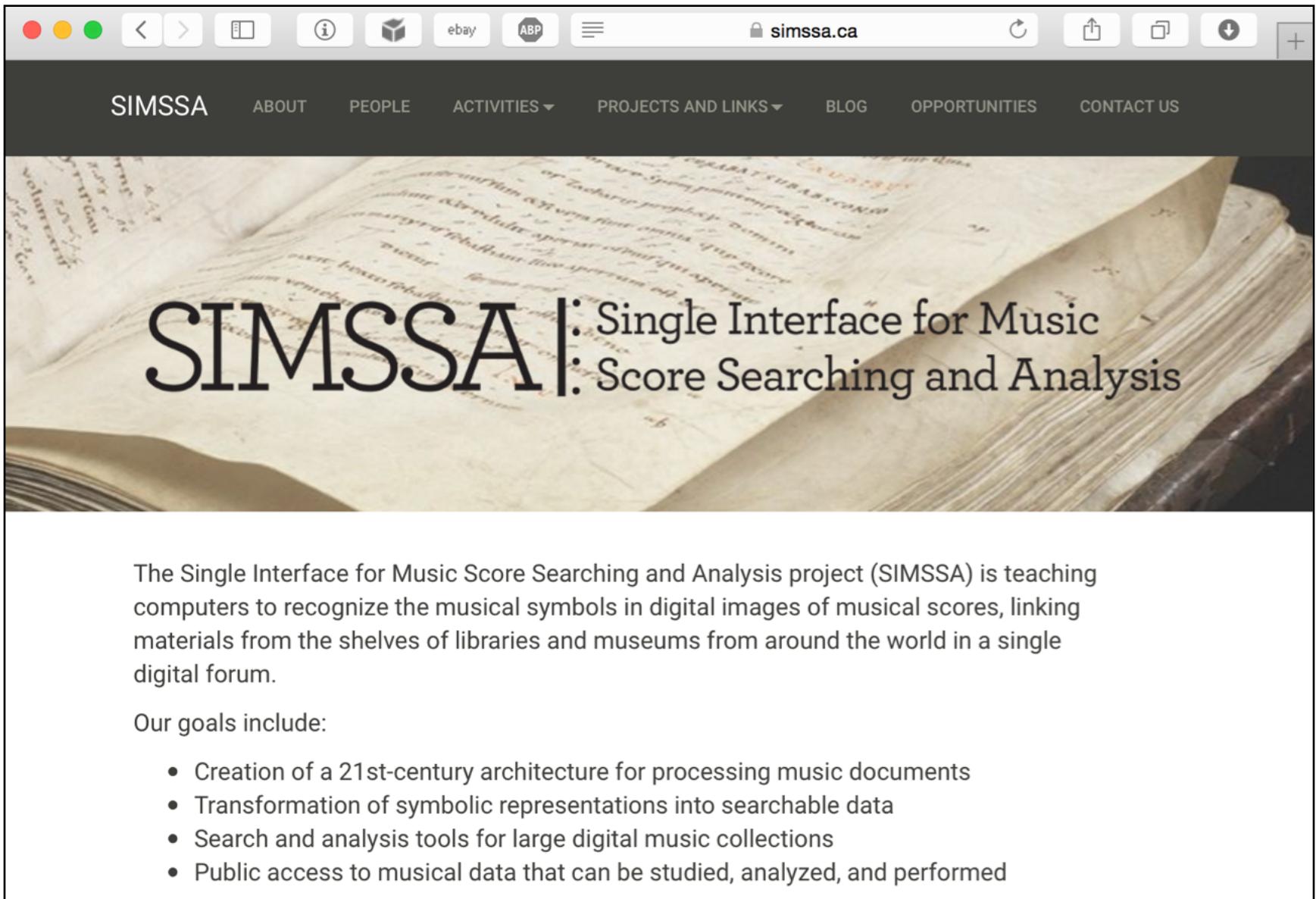
Welcome to Cantus Ultimus

The main objective of this research is to incorporate the latest optical music recognition (OMR) technologies with plainchant manuscripts in order to transform the existing **CANTUS database** into a state-of-the-art research environment in which both music and text are fully searchable.

For more information, please contact **Ichiro Fujinaga**

Logos at the bottom include:

- Social Sciences and Humanities Research Council of Canada
- Conseil de recherches en sciences humaines du Canada
- Canada
- McGill
- Schulich School of Music
- DDMAL
- DISTRIBUTED DIGITAL MUSIC ARCHIVES & LIBRARIES LAB
- CIR MMT Centre for Interdisciplinary Research in Music Media and Technology
- Fonds de recherche Société et culture Québec

The screenshot shows a web browser window with the URL "simssa.ca" in the address bar. The page has a dark header with navigation links: "SIMSSA", "ABOUT", "PEOPLE", "ACTIVITIES ▾", "PROJECTS AND LINKS ▾", "BLOG", "OPPORTUNITIES", and "CONTACT US". Below the header is a large image of an open medieval manuscript with dense Latin text on both pages. Overlaid on the left side of the image is the text "SIMSSA | Single Interface for Music Score Searching and Analysis".

The Single Interface for Music Score Searching and Analysis project (SIMSSA) is teaching computers to recognize the musical symbols in digital images of musical scores, linking materials from the shelves of libraries and museums from around the world in a single digital forum.

Our goals include:

- Creation of a 21st-century architecture for processing music documents
- Transformation of symbolic representations into searchable data
- Search and analysis tools for large digital music collections
- Public access to musical data that can be studied, analyzed, and performed

CANTUS Database

cantus.uwaterloo.ca

CANTUS: A Database for Latin Ecclesiastical Chant

HOME Home page **ABOUT** Information **SOURCES** List of indices **CHANTS** Search by melody **GENRES** List of genres **FEASTS** List of feasts

Welcome to the CANTUS Database!

CANTUS is a database of the Latin chants found in over 130 manuscripts and early printed books. This searchable digital archive holds indexes of primarily **antiphoners** and **breviaries** from medieval Europe; these are the main sources for the music sung in the liturgical Office.

New phases of the project include adding chant melodies to existing records and indexing manuscripts for the **Mass**, including those containing **sequences**.

Most viewed sources

| | | | | |
|---|--|--|--|---|
| A-KN 1012 Klosterneuburg, Augu... Klosterneuburg 1100s • Debra Lacoste | F-Pn lat. 12044 Paris, Bibliothèque... St-Maur-F 1100s • Denise Gallo • Keith Glaeske | F-Pn lat. 15181 Paris, Bibliothèque... Paris 1300 c. • Susan Kidwell | CDN-Hsmu M2149.... Halifax (Canada), St... Salzinnes 1554-5 • Jennifer Bain • Judy Dietz • Meredith Evans | CH-E 611 Einsiedeln, Kloster... Einsiedeln 1300s • Mette Kjaergaard |
|---|--|--|--|---|

1 OF 27 NEXT ›

Use this new website (in beta testing) if you are:

- looking for the complete contents of an indexed source
- investigating a particular manuscript or liturgical centre (monastery or cathedral)
- seeking quick access to the online archives that hold digital images for many of the sources indexed by CANTUS
- searching for a chant by text

What's new

Fri, 05/01/2015 - 03:56
CANTUS Melody Comparison Tool

Displaying 8 coincidences from the following databases:
Canticum Canticorum 233 • chant

| Chant | melody |
|---------|----------|
| CDH 811 | 1401 A 4 |

F-Pn 15181
Paris 1300 c.
• Com spagnoletum hanc missa salve regina credidit fidei super 1

| Chant | melody |
|---------|----------|
| CDH 811 | 1401 A 4 |

Mon, 02/16/2015 - 18:45
CANTUS Melody Search Tool



Search all the melodies in the CANTUS Database with the new CANTUS Melody Search tool. Mouse clicks on the staff make it easier than ever before!

liber.simssa.ca: neume search

Jennifer Bain - Outlook We Search the Liber Usualis

liber.simssa.ca/#type=neumes&query=podatus clivis clivis&result=1&p=124

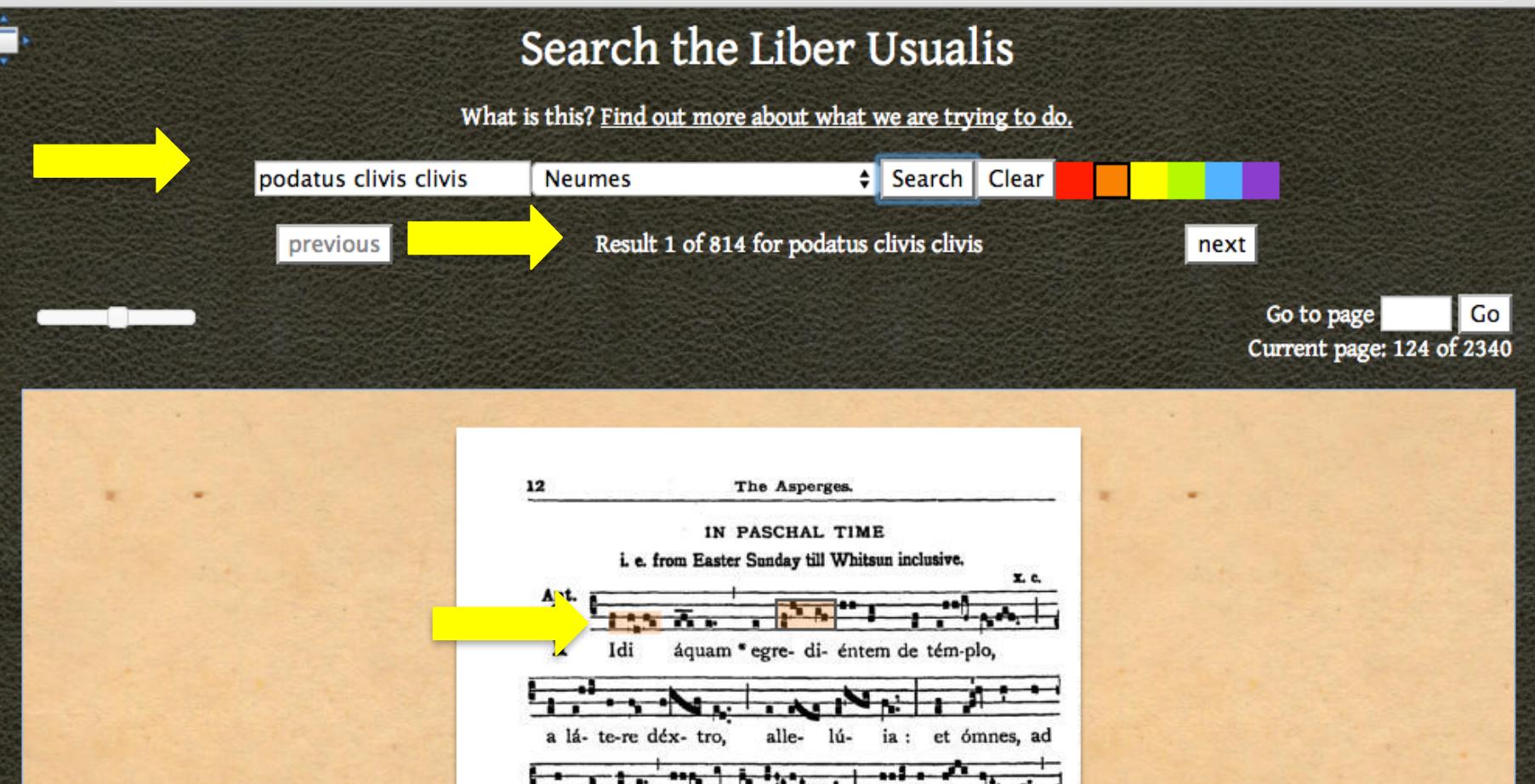
Search the Liber Usualis

What is this? [Find out more about what we are trying to do.](#)

podatus clivis clivis Neumes red orange yellow blue purple

Go to page Go
Current page: 124 of 2340

12 The Asperges.
IN PASCHAL TIME
i. e. from Easter Sunday till Whitsun inclusive.
x. c.
Ant. Idi áquam * egre- di- éntem de tém-plo,
a lá- te-re déx- tro, alle- lú- ia : et ómnes, ad



CANTUS Database index of Salzinnes Antiphonal

| CANTUS Manuscript Index: Halifax (Canada), St. Mary's University - Patrick Power Library, M2149.L4 1554 | | | | | | | | | | | | |
|---|------|-------|-----------------|-------|--------|---|-----|--|-----------|------|--------------|--------------|
| Siglum | Marg | Folio | Seq | Feast | Office | Genre | Pos | Incipit | Cantus ID | Mode | Diff | Concordances |
| CDN-Hsmu M2149.L4 | 001r | 1 | Dom. 1 Adventus | V | A | Custodit dominus* | | | 002085 | • | E H S | |
| CDN-Hsmu M2149.L4 | 001r | 2 | Dom. 1 Adventus | V | R | Missus est Gabriel* | | | 007170 | • | GBEMVHRDFSL | |
| CDN-Hsmu M2149.L4 | 001r | 3 | Dom. 1 Adventus | V | W | Rorate caeli desuper et nubes | | | 008188 | • | CGBEMVHR FSL | |
| CDN-Hsmu M2149.L4 | 001r | 4 | Dom. 1 Adventus | V | A | M | | Ecce nomen domini venit de | 002527 | 1 | G1 | CGBEMVHR FS |
| CDN-Hsmu M2149.L4 | 001r | 5 | Dom. 1 Adventus | C | H | 01 | | Quem terra pontus aethera colunt | 008375 | | B SL | |
| CDN-Hsmu M2149.L4 | 001r | 6 | Dom. 1 Adventus | C | H | 02 | | Cui luna sol et sidera | 008375a | | B SL | |
| CDN-Hsmu M2149.L4 | 001r | 7 | Dom. 1 Adventus | C | H | 03 | | Beata mater munere cuius supermus | 008375c | | B SL | |
| CDN-Hsmu M2149.L4 | 001v | 1 | Dom. 1 Adventus | C | H | 04 | | Beata caeli nuntio fecunda sancto | 008375d | | B SL | |
| CDN-Hsmu M2149.L4 | 001v | 2 | Dom. 1 Adventus | C | H | 05 | | Laus honor virtus gloria deo | 008375i | | B SL | |
| CDN-Hsmu M2149.L4 | 001v | 3 | Dom. 1 Adventus | M | I | | | Ecce venit rex occurramus obviam | 001074 | 4T | NE | CGBEMVHRDFS |
| CDN-Hsmu M2149.L4 | 001v | 4 | Dom. 1 Adventus | M | A | 1.1 | | Domine in virtute tua laetabitur | 002349 | 8 | G1 | E H L |
| CDN-Hsmu M2149.L4 | 001v | 5 | Dom. 1 Adventus | M | W | 1. | | Ex Sion species decoris eius | 008060 | • | | C BE VHRDFS |
| CDN-Hsmu M2149.L4 | 002r | 1 | Dom. 1 Adventus | M | R | 1.1 | | Aspiciens a longe ecce video | 006129 | 7 | | GBEMVHRDFS |
| CDN-Hsmu M2149.L4 | 002v | 1 | Dom. 1 Adventus | M | V | 01 | | Quique terrenae et filii hominum | 006129a | 7 | | GBEMVHRDFS |
| CDN-Hsmu M2149.L4 | 002v | 2 | Dom. 1 Adventus | M | V | 02 | | Qui regis Israel intende qui | 006129b | 7 | | GBEMVHRDF |
| CDN-Hsmu M2149.L4 | 002v | 3 | Dom. 1 Adventus | M | V | 03 | | Excita domine potentiam tuam et | 006129d | 7 | | G DFS |
| CDN-Hsmu M2149.L4 | 002v | 4 | Hebd. Adventus | M | R | 1.1 | | Aspiciens* | 006129 | • | | GBEMVHRDFS |
| CDN-Hsmu M2149.L4 | 002v | 5 | Dom. 1 Adventus | M | R | 1.2 | | Aspiciebam in visu noctis et | 006128 | 6 | | GBEMVHRDFS |
| CDN-Hsmu M2149.L4 | 003r | 1 | Dom. 1 Adventus | M | V | 01 | | Potestas eius potestas aeterna quae | 006128b | 6 | | G V DFS |
| CDN-Hsmu M2149.L4 | 003r | 2 | Dom. 1 Adventus | M | R | 1.3 | | Missus est Gabriel angelus ad | 007170 | 7 | | GBEMVHRDFSL |
| CDN-Hsmu M2149.L4 | 003r | 3 | Dom. 1 Adventus | M | V | 01 | | Ave Maria gratia plena dominus | 007170a | 7 | | BEMVHRD |
| CDN-Hsmu M2149.L4 | 003v | 1 | Dom. 1 Adventus | M | R | 1.4 | | Ave Maria gratia plena dominus | 006157 | 7 | | GBEMVHRDFSL |
| CDN-Hsmu M2149.L4 | 003v | 2 | Dom. 1 Adventus | M | V | 01 | | Quomodo fiet istud quoniam virum | 006157a | 7 | | G E V DFS |
| CDN-Hsmu M2149.L4 | 003v | 3 | Dom. 1 Adventus | M | A | 2. | | Dominus defensor* | 002404 | • | | E VH SL |
| CDN-Hsmu M2149.L4 | 003v | 4 | Dom. 1 Adventus | M | W | 2. | | Egredietur dominus de loco sancto | 008043 | • | | C BE VHRDFS |
| CDN-Hsmu M2149.L4 | 003v | 5 | Dom. 1 Adventus | M | R | 2.1 | | Salvatorem expectamus dominum Iesum Christum | 007562 | 3 | | GBEMVHRDFS |
| CDN-Hsmu M2149.L4 | 004r | 1 | Dom. 1 Adventus | M | V | 01 | | Sobrie et juste et pie | 007562b | 3 | | G V DFS |
| CDN-Hsmu M2149.L4 | 004r | 2 | Dom. 1 Adventus | M | R | 2.2 | | Audite verbum dominii gentes et | 006149 | 3 | | GBEMVHRDFS |
| CDN-Hsmu M2149.L4 | 004r | 3 | Dom. 1 Adventus | M | V | 01 | | Annuntiate et auditum facite loquimini | 006149b | 3 | | G V DFS |
| CDN-Hsmu M2149.L4 | 004r | 4 | Dom. 1 Adventus | M | R | 2.3 | | Ecce virgo concipiet et pariet | 006620 | 3 | | GBEMVHRDFSL |
| CDN-Hsmu M2149.L4 | 004v | 1 | Dom. 1 Adventus | M | V | 01 | | Super solium David et super | 006620b | 3 | | G V DFS |
| CDN-Hsmu M2149.L4 | 004v | 2 | Dom. 1 Adventus | M | R | 2.4 | | Obsecro domine mitte quem missurus | 007305 | 5 | | GBEMVHRDFS |
| CDN-Hsmu M2149.L4 | 004v | 3 | Dom. 1 Adventus | M | V | 01 | | Memento nostri domine in beneplacito | 007305zc | 5 | | |
| CDN-Hsmu M2149.L4 | 004v | 4 | Dom. 1 Adventus | M | A | 3. | | Alleluia* | | 8 | G1 | |
| CDN-Hsmu M2149.L4 | 004v | 5 | Dom. 1 Adventus | M | W | 3. | | Egredietur virga de radice Jesse | 008044 | • | | C E VHRDFS |
| CDN-Hsmu M2149.L4 | 005r | 1 | Dom. 1 Adventus | M | R | 3.1 | | Laetentur caeli et exsultet terra | 007068 | 2 | | GBEMVHRDFS |
| CDN-Hsmu M2149.L4 | 005r | 2 | Dom. 1 Adventus | M | V | 01 | | Ecce dominator dominus cum virtute | 007068a | 2 | | GBEMVHRD |
| CDN-Hsmu M2149.L4 | 005r | 3 | Dom. 1 Adventus | M | R | 3.2 | | Alieni non transibunt per Jerusalem | 006066 | 8 | | EMV RDFS |
| CDN-Hsmu M2149.L4 | 005r | 4 | Dom. 1 Adventus | M | V | 01 | | Ego veniam dicit dominus et | 006066a | 8 | | V RDF |
| CDN-Hsmu M2149.L4 | 005v | 1 | Dom. 1 Adventus | M | R | 3.3 | | Montes Israel ramos vestros expandite | 007177 | 1T | | BEMV RDFSL |
| CDN-Hsmu M2149.L4 | 005v | 2 | Dom. 1 Adventus | M | V | 01 | | Rorate caeli desuper et nubes | 007177a | 1T | | BEMV RDFSL |
| CDN-Hsmu M2149.L4 | 005v | 3 | Dom. 1 Adventus | M | R | 3.4 | | Confortamini manus fatigatae et genua | 006321 | 1T | | E V RDFSL |

Salzinnes Antiphonal: old interface

Jennifer Bain - Outlook We Search the Liber Usualis Salzinnes Antiphonal (CDN

salzinnes.simssa.ca

Salzinnes Antiphonal (CDN-Hsmu M2149.L4)

485 1st Sunday of Advent (001r)

Toggle grid Control zoom Previous/Next Go to folio/page Go to feast Link Info

Huberte

Found 1 results.

198r: O Huberte dedicatam aulam a te primitus tuae quoque subarratam sepulturae dotibus et corpore ()

De sancto Huberto Episcopo. Antiphona

O huberte dedicatam aulam a te pri
mitus tue quoq; subarratam sepulture dotib;
et corpore consecratam serva tuis precibus
atq; plebem congregatam hic in tuis laudib;
R. Magi. Euouae. B enedita sis ma
iestas creatoris omnium que huber to
tum prestas hodie pa latum cuius virt
et potestas non habet initium in qua nulla sit
ege stas sed ubertas omniū. R. Magi. Euouae. aū.

Folio: 198r
Feasts on this folio:

▼ O Huberte dedicatam aulam a

- Mode: Mode 7
- Office: First Vespers
- Genre: Antiphon
- Liturgical Position: Antiphon for the Magnificat
- Standard Text: O Huberte dedicatam aulam a te primitus tuae quoque subarratam sepulturae dotibus et corpore consecratam serva tuis precibus atque plebem congregatam hic in tuis laudibus
- Manuscript Text: O huberte dedicatam aulam a te primitus tue quoque subarratam sepulture dotibus et corpore consecratam serva tuis precibus atque plebem congregatam hic in tuis laudibus
- Feast Name: Huberti ()
- CAO Number: slz0229

New Cantus Ultimus interface

The screenshot shows a web browser window with the URL cantus.simssa.ca/manuscripts/. The browser's top bar includes standard icons for window control, search, and refresh. Below the address bar is a dark navigation bar with links for 'Cantus Ultimus', 'About', 'Activities', 'Team', 'Manuscripts', and 'Search'. The main content area has a light background and features a large, bold title 'Manuscripts'. Below the title is a bulleted list of manuscript entries:

- [St. Gallen, CH-SGs 390](#)
Sankt Gallen, Stiftsbibliothek, 390, 0980+
- [Salzinnes, CDN-Hsmu M2149.L4](#)
Halifax (Canada), St. Mary's University - Patrick Power Library, M2149.L4 1554, 1554-5
- [St. Gallen, CH-SGs 391](#)
Sankt Gallen, Stiftsbibliothek, 391, 0980+

Below this section is another heading 'Future Manuscripts (in preparation)' followed by another bulleted list:

- [Paris 12044](#)
Bibliothèque nationale, Département des manuscrits, Latin 12044, 12th C
- [Cologne 1161](#)
Köln, Dombibliothek, Codex 1161, 13th century
- [Paris 15181](#)
Bibliothèque nationale, Département des manuscrits, Latin 15181, 14th C
- [Einsiedeln 611](#)
Einsiedeln, Stiftsbibliothek, Codex 611(89), 14th C
- [Utrecht 406](#)
Utrecht, Universiteitsbibliotheek, MS 3 J 7, ca. 12th–15th C

Salzinnes: neume search in images

Jennifer Bain - Outlook We Search the Liber Usualis Salzinnes Antiphonal (CDN Cantus Ultimus

cantus.simssa.ca/manuscript/133/?folio=001r

Cantus Ultimus Manuscripts Search

Zoom level: 2 Page 1 of 479

abbato ante primā Dominicā aduentus Ad vs.
Ant. Custodit dñs R. Miss̄ est gabriel v. Forate
celi desup et nubes pluant iustū. Iperiat terra
et germinet saluatorem. Ad Magnificat Antiph.

Gloria nomen domini ve nit
de longinqua et cl. ritas e
ius riplēt orbem terrarum. Euonac.
Q uon terrā ponthus ^{Ad completoriu.} hymnus.

Halifax (Canada), St. Mary's University - Patrick Power Library, M2149.L4 1554

Folio Manuscript Details

Search Manuscript

Neumes: podatus punctum

Search

246 results found for query "neumes:podatus punctum"

1 2 3 4 5 6 7

Challenge 1: Displaying images

- Original images from Judith Dietz
- New digital images from the Canadian Conservation Institute (CCI) in 2012
- 6993×4414 pixels, uncompressed TIFF
- 479 page images
- 175 megabytes for each image, 80 gigabytes total

Salzinnes Antiphonal (CDN) × Cantus Ultimus — Halifax (×)

← → C salzinnes.simssa.ca

Salzinnes Antiphonal (CDN-Hsmu M2149.L4)

485 1st Sunday of Advent (001r)

Toggle grid Control zoom Previous/Next Go to folio/page Go to feast

Search

Spiritus a longe ecce vi deo de

i potentiam venien tem et
nebu lam totam terram te
gen tem. I te ob viam e
ta dia te. Iunia no
bis si tu es iusc dim reg
naturus es d am populo straci

Salzinnes Antiphonal (CDN-Hsmu M2149.L4)

485 1st Sunday of Advent (001r)

Toggle grid Control zoom Previous/Next Go to folio/page Go to feast

Search

Spiritus a longe ecce vi deo de

i potentiam venien tem et
nebu lam totam terram te
gen tem. I te ob viam e
ta dia te. Iunia no
bis si tu es iusc dim reg
naturus es d am populo straci

Salzinnes Antiphonal (CDN) Cantus Ultimus — Halifax (

cantus.simssa.ca/manuscript/133/?folio=002r

Cantus Ultimus About Activities Team Manuscripts Search

Zoom level: 2 Folio 002r (3 of 479) Go

The image shows a single folio from a medieval manuscript. At the top left, there is a large, ornate initial 'I'. To its right is a rectangular miniature depicting three figures: a standing figure on the left, and two figures seated at a desk or altar in the center-right. The entire page is framed by a richly decorated border with gold leaf and blue pigments. Below the initial and miniature, there are two columns of musical notation on four-line red staves. The text, written in a Gothic script, includes the beginning of the Magnificat: "Sicut erat locutus est deo de potentiam venientem et nebulam totam terram te gen tem. Te ob mamicet dicitur te. Huncia nobis si tu es ipse naturus es in populo israel". The bottom of the page features a decorative floral pattern and several small figures of people.

Document image viewing: Diva.js

- Large image document viewer
- Users do not have to wait to download large image files; “instant-on” high-resolution document viewing
- Open source, available free for libraries and archives

Challenge 2: Metadata in Context

- Metadata from 2,932 chants supplied by the Cantus Database project
- Expansion of Cantus cataloguing data:
“I” → “Invitatory antiphon”
- Search the metadata

Challenge 2: Metadata in Context

- Presents chant information in sync with page images
- Problem: How to store & retrieve lots of data very quickly
- Solution: Solr, a very fast search engine system

Salzинnes Antiphonal (CDN) Cantus Ultimus — Halifax

Andrew

cantus.simssa.ca/manuscript/133/?folio=001r

— + Zoom level: 2 Folio 001r (1 of 479) Go

Salzинnes, CDN-Hsmu M2149.L4

Folio Search Manuscript

Folio 001r

Previous Folio Next Folio

Chants

Custodit dominus*

Missus est Gabriel*

Rorate caeli desuper et nubes

Ecce nomen domini venit de

Quem terra pontus aethera colunt

Cui luna sol et sidera

Beata mater munere cuius supernus

Salzинnes Antiphonal (CDN) Cantus Ultimus — Halifax

Andrew

cantus.simssa.ca/manuscript/133/?folio=001r

— + Zoom level: 2 Folio 001r (1 of 479) Go

Salzинnes, CDN-Hsmu M2149.L4

Folio Search Manuscript

Folio 001r

Previous Folio Next Folio

Chants

Custodit dominus*

Missus est Gabriel*

Rorate caeli desuper et nubes

Ecce nomen domini venit de

Quem terra pontus aethera colunt

Cui luna sol et sidera

Beata mater munere cuius supernus

Challenge 3: Optical music recognition

- OMR is a set of processes for converting digital images to encoded music notation
- No “off-the-shelf” software for OMR of 16th-century Belgian MSS
- Developed software for building bespoke OMR systems



Greyscale

Binarization

Border
Removal

Lyric Removal

Staff Removal

Shape
Classification

Music
Reconstruction

Shape/Image
Alignment

Cantus Ultimus — Halifax

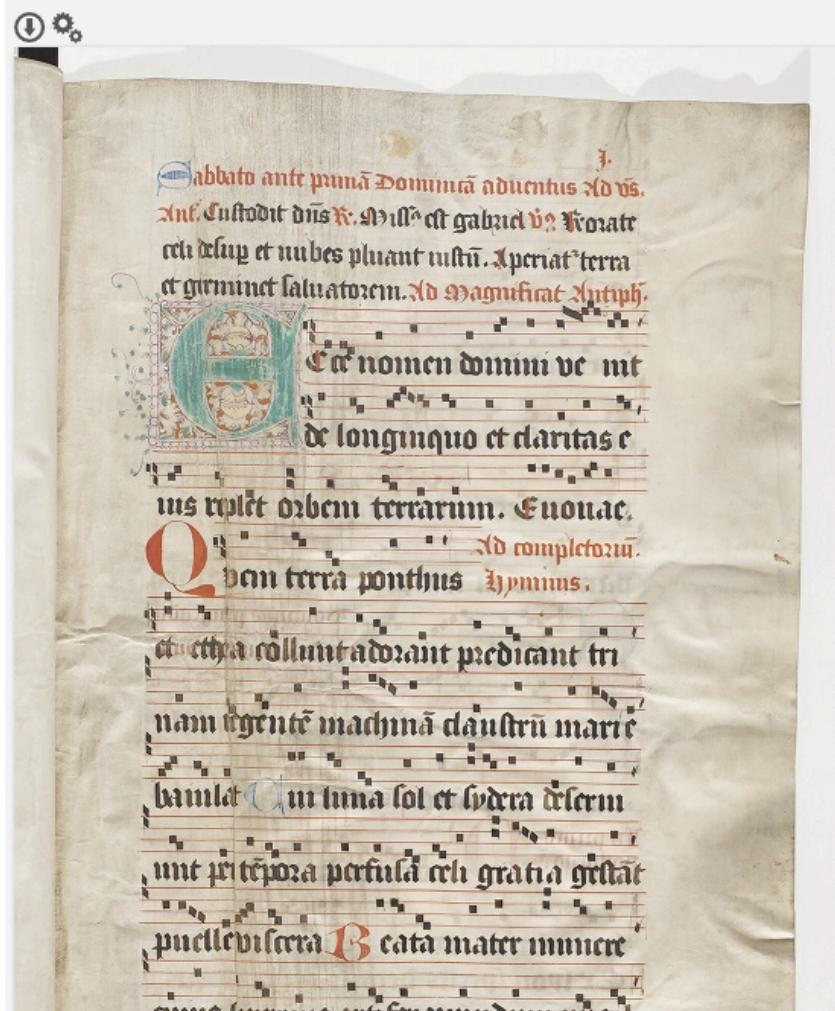
Andrew

cantus.simssa.ca/manuscript/133/?folio=001r

Star OFF ABP JB Q E

Cantus Ultimus About Activities Team Manuscripts Search

- + Zoom level: 2 Folio 001r (1 of 479) [] Go [] [] []



Salzinnes, CDN-Hsmu M2149.L4

Folio

Search Manuscript

Folio 001r

▲ Previous Folio

Next Folio ▼

Chants

Custodit dominus*

Missus est Gabriel*

Rorate caeli desuper et nubes

Ecce nomen domini venit de

Quem terra pontus aethera colunt

Cui luna sol et sidera

Beata mater munere cuius supernus

Accuracy

- All OMR-derived data is automatically extracted; no human correction.
- Using human-transcribed Volpiano to “correct” OMR results.
- Corrected OMR results can then be used to make OMR better.
- Searches work now, will get better with corrections.

Searching = Results are listed as you type

Cantus Ultimus About Activities Team Manuscripts Search

- + Zoom level: 2 Folio 035r (69 of 479) 35 | Go | Grid | Link | X

Salzинnes, CDN-Hsmu M2149.L4

Folio

Search Manuscript

Search this Manuscript

All Text Fields: magnum

Query: magnum

Results: 18

| Name | Mode | Folio | Genre |
|--|------|-------|------------|
| De Sion veniet qui regnaturus | 1 | 021r | Antiphon |
| Dominus veniet occurrite illi dicentes | 1 | 027v | Antiphon |
| O magnum mysterium et admirabile | 3 | 035r | Responsory |
| Angelus ad pastores ait annuntio | 7 | 041r | Responsory |
| Angelus ad pastores ait annuntio | 7 | 041v | Antiphon |

“Folio” view

Cantus Ultimus About Activities Team Manuscripts Search

- + Zoom level: 2 Folio 035r (69 of 479) [] Go [] [] []



Salzinnes, CDN-Hsmu M2149.L4

Folio

Search Manuscript

Folio 035r

[Previous Folio](#) [Next Folio](#)

Chants

Ecce advenit dominator deus et

Verbum caro factum est

O magnum mysterium et admirabile

Sequence: 3

Feast: Nativitas Domini

Office: Matins

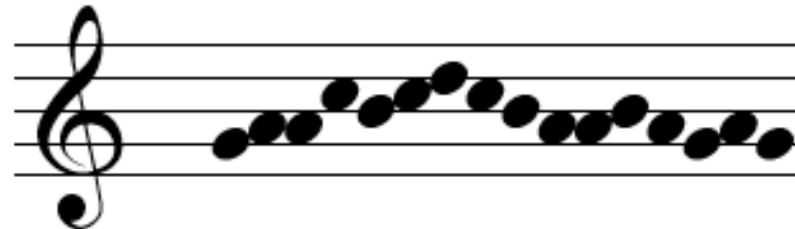
Genre: Responsory

Mode: 3

[Full Text](#)

Melody Search

- Volpiano font = 1--ghhkjkIkjhhjhghg =



(gaacbcdcdcbaabagag)

Volpiano search

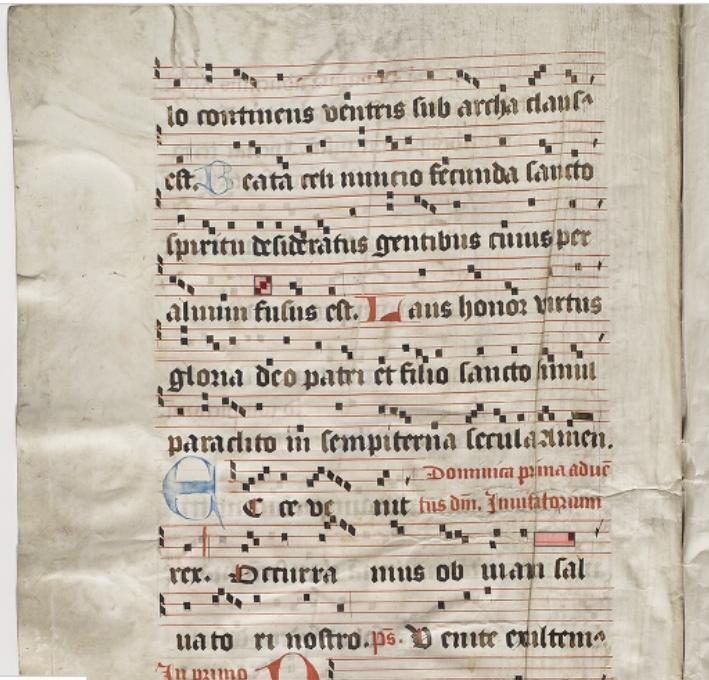
Cantus Ultimus About Activities Team Manuscripts Search



Zoom level: 2

Folio 001v (2 of 479)

Go

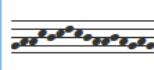


Salzinnes, CDN-Hsmu M2149.L4

Folio

Search Manuscript

Volpiano:



Query: ghhkjkjkjhjhghg

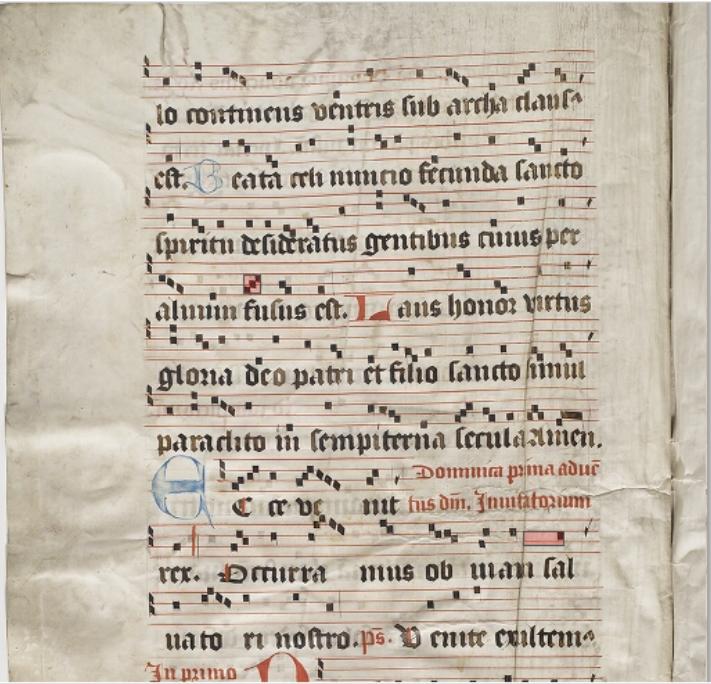
Results: 69

| Name | Mode | Folio | Genre |
|-----------------------------|------|-------|------------------|
| Ego veniam dicit dominus et | 8 | 005r | Responsory Verse |

The same search with “pitch” letters

Cantus Ultimus About Activities Team Manuscripts Search

- + Zoom level: 2 Folio 001v (2 of 479) Go

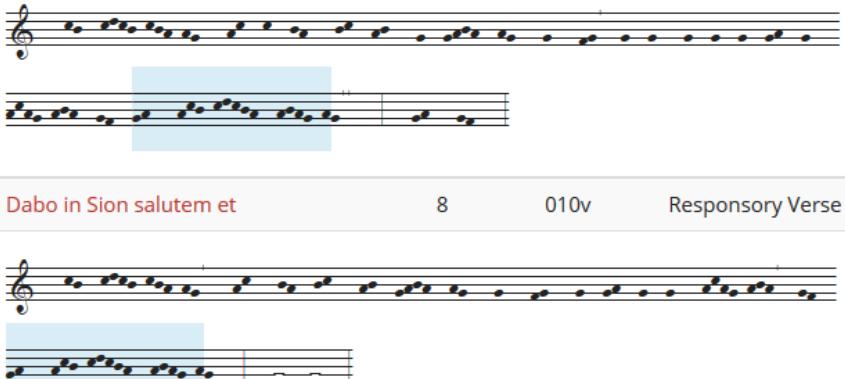


Salzinnes, CDN-Hsmu M2149.L4

Folio Search Manuscript

Query: gaacbcdcbaabaga
Results: 69

| Name | Mode | Folio | Genre |
|-----------------------------|------|-------|------------------|
| Ego veniam dicit dominus et | 8 | 005r | Responsory Verse |
| Dabo in Sion salutem et | 8 | 010v | Responsory Verse |



OMR search for “cdcbaabaga”

Cantus Ultimus About Activities Team Manuscripts Search

- + Zoom level: 2 Folio 064r (131 of 479) Go



Salzinnes, CDN-Hsmu M2149.L4

Folio

Search Manuscript

Search this Manuscript

Search

OMR Search

Pitch:

Pitch search

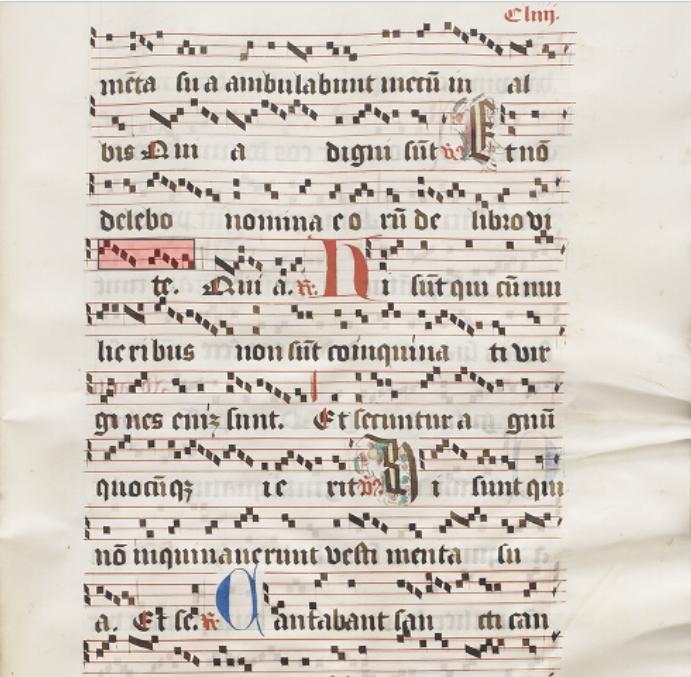
3 results found for query "cdcbaabaga"

« »

OMR Search Results in Mode 8 Verse-Tone

Cantus Ultimus About Activities Team Manuscripts Search

Zoom level: 2 Folio 154r (312 of 479) Go



Salzines, CDN-Hsmu M2149.L4

Folio Search Manuscript

Search this Manuscript

Search OMR Search

Pitch: cdcbaabaga

Pitch search

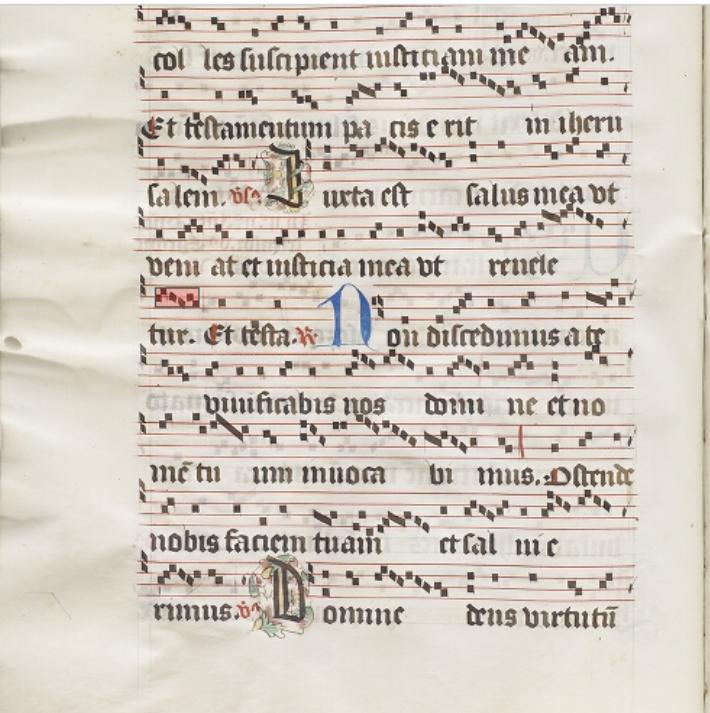
3 results found for query "cdcbaabaga"

« 1 2 3 »

Shorter Search String for OMR Data

Cantus Ultimus About Activities Team Manuscripts Search

Zoom level: 2 Folio 025v (50 of 479) Go



Salzinnes, CDN-Hsmu M2149.L4

Folio

Search Manuscript

Search this Manuscript

Search OMR Search

Pitch: abagag

Pitch search

62 results found for query "abagag"

« 3 4 5 6 7 8 9 10 11 »

Back to “Folio” view

Cantus Ultimus About Activities Team Manuscripts Search

- + Zoom level: 2 Folio 025v (50 of 479) [] Go [] [] []



Salzinnes, CDN-Hsmu M2149.L4

Folio Search Manuscript

Folio 025v Previous Folio Next Folio

Chants

Juravi dicit dominus ut ultra

Juxta est salus mea ut

Sequence: 2

Feast: Dom. 4 Adventus

Office: Matins

Genre: Responsory Verse

Mode: 8

Full Text

Juxta est salus mea ut veniat et iusticia mea ut reveletur | Et testamentum

OMR – Neume Search

Cantus Ultimus About Activities Team Manuscripts Search

- + Zoom level: 2 Folio 003r (5 of 479) [] Go [] [] []

CC# 90765 - B/T
QA L-2 V



Salzinnes, CDN-Hsmu M2149.L4

Folio Search Manuscript

Search this Manuscript

Search OMR Search

Neume: podatus podatus podatus Search

Neume search

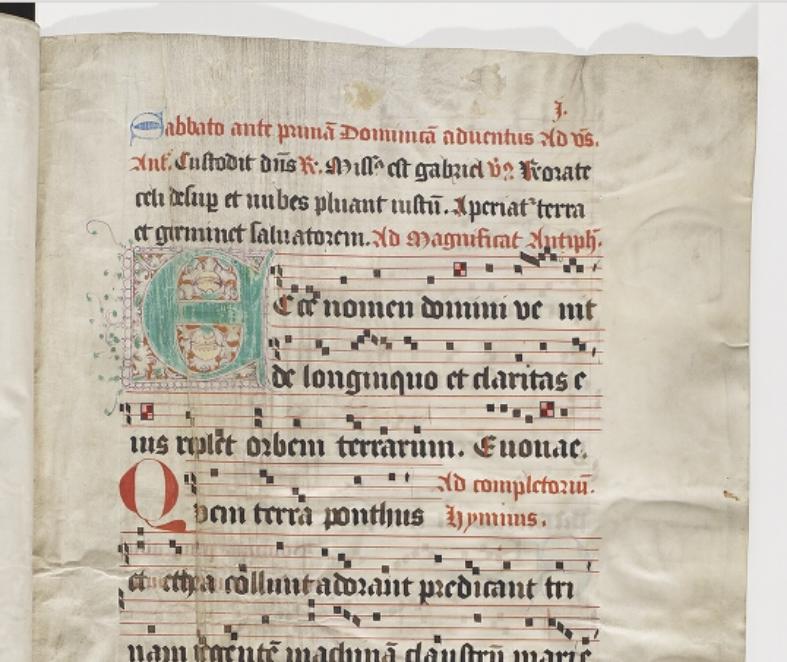
65 results found for query "podatus podatus podatus"

« 1 2 3 4 5 6 7 8 9 »

OMR – Neume search

Cantus Ultimus About Activities Team Manuscripts Search

- + Zoom level: 2 Folio 001r (1 of 479) [] Go [] [] [] []



Salzинnes, CDN-Hsmu M2149.L4

Folio Search Manuscript

Search this Manuscript

Search OMR Search

Neume: ▼ podatus Search

Neume search
12487 results found for query "podatus"

« 1 2 3 4 5 6 7 8 9 »

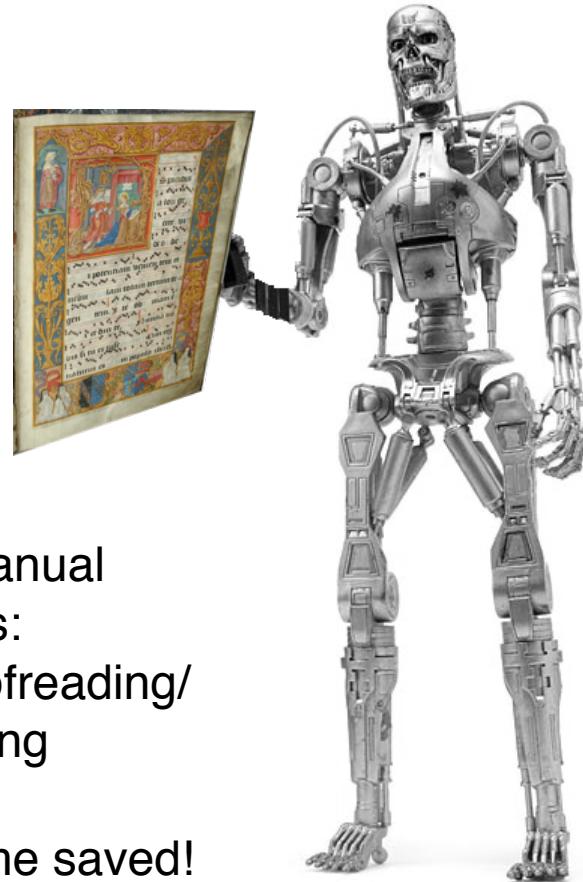
“Human” Cantus vs. “Machine” Cantus?



2 manual passes through
each manuscript: creation
and proofreading/editing

1 manual
pass:
proofreading/
editing

= time saved!



Acknowledgments

William Bain

Ryan Bannon

Judith Dietz

Meredith Evans

Andrew Fogarty

Andrew Horwitz

Alessandra Ignesti

Rivu Khoda

Saining Li

Wendy Liu

Yihong Luo

Maria Murphy

Clare Neil

Alistair Porter

Jessica Thompson

Ling-Xiao Yang

SIMSSA | Single Interface for Music
Score Searching and Analysis



Social Sciences and Humanities
Research Council of Canada

DDMAL DISTRIBUTED DIGITAL MUSIC
ARCHIVES & LIBRARIES LAB

Conseil de recherches en
sciences humaines du Canada

Canada